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Solutions Roadmap

From the data center to the work area to building systems and the factory floor, *PANDUIT* delivers comprehensive solutions that optimize the reliability, availability, security, integration and safety of the physical infrastructure. Through robust, innovative systems designed for intelligent deployment and convergence, *PANDUIT* solutions help mitigate risk factors across IT, facilities, operations and manufacturing to achieve business efficiencies with lower total cost of ownership.

1. Copper Systems



2. Fiber Optic Systems



3. Power over Ethernet



4. Zone Cabling



5. Wireless



6. Outlets



7. Physical Infrastructure Management



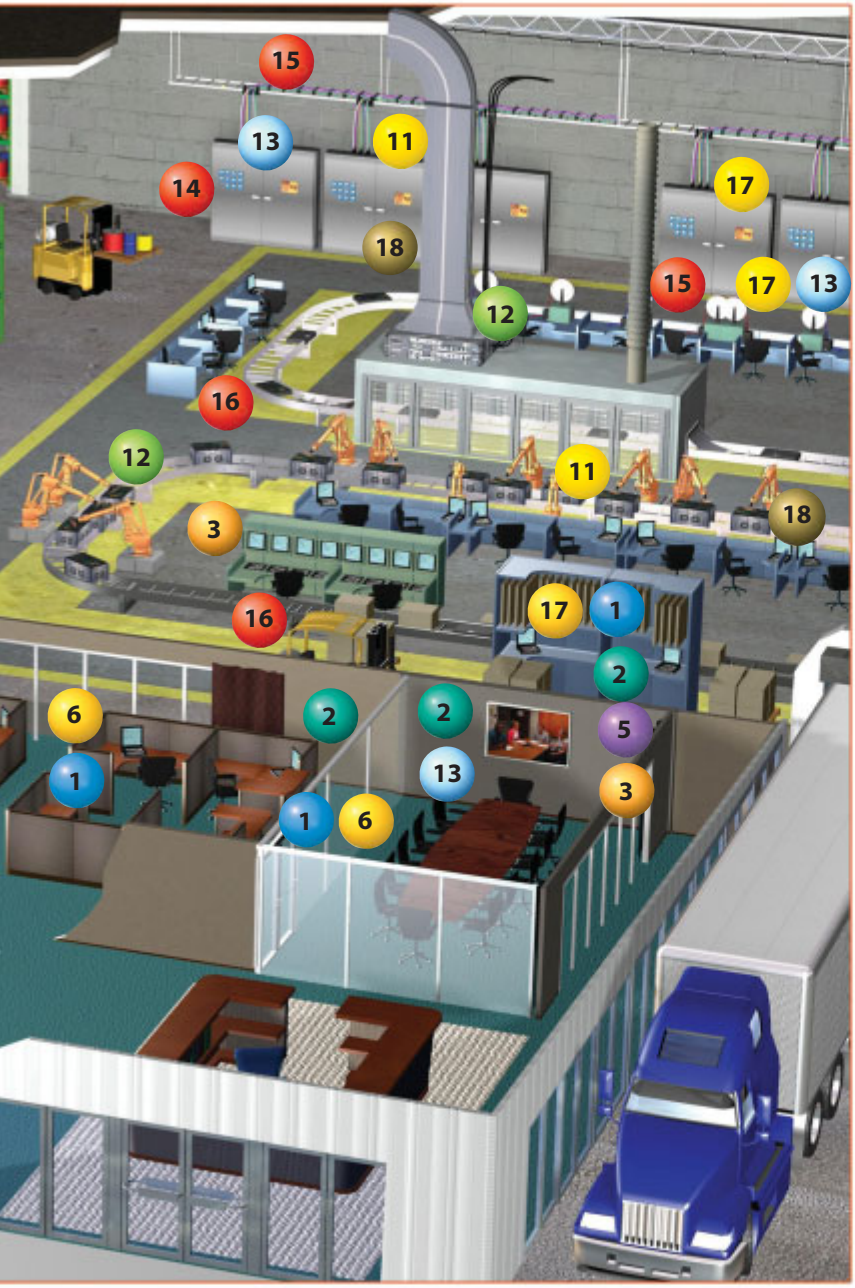
8. Overhead and Underfloor Routing



9. Surface Raceway







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11 Power and Grounding



12 Industrial



13 Labeling and Identification



14 Wiring Duct



15 Cable Management and Accessories



16 Stainless Steel



17 Terminals



18 Safety and Facility Solutions









Unified Physical Infrastructure Vision

The physical infrastructure is the basic foundation on which enterprise systems run, including voice and data communications, power, computing, control and security systems. The need to provide real-time information, manage applications and control functional systems through IP networking is also driving increased interdependence between these systems through several core enterprise areas.

PANDUIT offers Unified Physical Infrastructure (UPI)-based solutions that help customers optimize the physical infrastructure by intelligently converging physical and logical systems. These solutions leverage real-time information to:

- Manage systems more effectively
- Maximize performance and availability
- Satisfy regulatory compliance requirements
- Increase safety and security in the workplace

As the global leader in comprehensive network solutions, *PANDUIT* helps customers support and manage the physical infrastructure by leveraging robust product systems, technology leadership, global expertise and support, an extensive partner ecosystem and world-renowned alliances.

PANDUIT systems optimize availability, reliability, security, integration and safety throughout the physical infrastructure and combine to deliver industry and application solutions that enable business agility and lowest total cost of ownership.

Solutions that Enable Technology

As a global leader *PANDUIT* is continually focused on industry and application challenges to create solutions that support evolving business needs. In the evaluation and development of technologies, *PANDUIT* considers the entire physical infrastructure. Issues such as convergence, interoperability, scalability and continuity need to be addressed to reduce risk across IT, facilities, and manufacturing. This holistic approach enables business agility through robust, leading-edge systems that optimize design and deployment of the physical infrastructure – delivering maximum reliability, availability, security, integration and safety.

Physical Infrastructure Management

As the number of enterprise network devices continues to increase, infrastructure cabling in telecommunications rooms and data centers is becoming denser and more complex, multiplying risk throughout the network. A single patch cord disconnection can bring down critical segments of a network, allow a potential breach in network security, or severely impact the efficiency of network performance. Without an active physical infrastructure management system to properly monitor and document all connectivity, these physical patch fields are virtually invisible to a traditional network management system.



The *PANDUIT*® *PanView iQ*™ System provides physical infrastructure management through real-time monitoring of patch field connectivity, 24 hours a day, 7 days a week for enhanced system security and reliability. Using hardware components placed in the network combined with management software, patch field connections are continuously monitored, accurately documented, and automatically updated. Any change (whether planned or inadvertent) is immediately detected and alerted through the management platform. The systems can even guide technicians through moves, adds, and changes, providing greater reliability, security, efficiency and savings.



The *PanView iQ*™ System offers a unique hardware design that allows active management equipment to be installed at the back of *PanView iQ*™ Patch Panels, eliminating the need for additional rack space and allowing for phased installations. The system also features a web-based graphic user interface (GUI), remote accessibility, and an application program interface that integrates with third-party programs to allow utilization of familiar applications and services through the *PanView iQ*™ System.



Power Over Ethernet (PoE)







Since the introduction of the 2003 IEEE 802.3af Power over Ethernet (PoE) standard customers have realized the benefits of delivering DC power over standard Category 5e, 6, and 6A copper cabling. Devices such as Voice over IP (VoIP) telephones, wireless access points, IP security cameras and building automation systems increasingly align and converge network traffic over a shared IP-based infrastructure. Because these technologies are often deployed in locations where an available power source is not readily accessible or may be cost prohibitive, supplying managed power through the data cabling is an attractive and cost saving alternative.

DPoE™ Power Patch Panels save valuable rack space in telecommunications rooms, zone enclosures, and data centers with a 1 RU design that allows PoE deployment in space-constrained locations. The *DPoE*™ Compact 8 Midspan provides a flexible solution for smaller installations and the innovative DC power based design is capable of supplying IEEE 802.3 af-2003 compliant and legacy PoE power to all ports. In the event of a power disruption, the port prioritization capabilities work with a network management solution to ensure that critical applications remain online and available for use, while other non-critical devices are turned off to conserve power.

DPoE™ Power over Ethernet Systems include the *DPoE*™ Element Manager, a software application that offers optional local and remote manageability of PoE devices and ports. Alerts can be generated on critical conditions, such as loss of power to key devices or from inadvertent disconnections. With the ability to provide location information on all ports and the panel itself, an IT manager can track critical assets and resolve concerns efficiently and effectively.

To meet the growing power and data needs of emerging IP devices, *PANDUIT* actively participates in the IEEE,TIA, and ISO workgroups who are driving IEEE 802.3at, commonly referred to as PoE Plus, to ensure that *DPoE*™ Systems support the PoE Plus standard for 2X power when it becomes ratified. In fact, the *DPoE*™ Compact 8 Midspan provides 2X power (up to 32 watts) today. *PANDUIT* also supports network transmissions up to 1GbE with the *DPoE*™ *1 GIG*™ Power Patch Panel and the *DPoE*™ Compact 8 Midspan.

10 Gigabit Ethernet Over Copper

The rapid growth of network traffic and the drive to build and better utilize data centers has many organizations looking toward the benefits of 10 Gig Ethernet (10GbE) to process, manage, and store increasingly large amounts of data across the network. *PANDUIT* 10 Gigabit Solutions incorporate innovative product systems, tools, appliances, software and services to deliver a comprehensive strategy for unifying the installation and management of your physical infrastructure.







The *PANDUIT*® *TX6*™ *10G*IG™ UTP and Shielded Copper Cabling System is a complete end-to-end solution for applications and industries that require increasingly complex and large-scale database processing capabilities. Each component features innovative complementary design technologies working together to suppress alien cross talk while delivering Category 6A Class E_A electrical performance beyond 500 MHz. This system provides end-users with a reliable, cost-effective, and flexible cabling infrastructure that addresses the most demanding applications, including the following:

Enterprise LAN

TX6™ *10G*IG™ Copper solutions support Gigabit to the desktop to run increasingly sophisticated workgroup applications. Also, with enterprises increasingly relying on VoIP, webcasting, video conferencing and telepresence to communicate in real time across long distances, *TX6*™ *10G*IG™ systems enable the convergence of voice, data, and video across unified IP networks.

Data Center

Managing information is no longer enough – data centers must provide real-time access to accurate information in order to support evolving business requirements and organizational growth. *TX6*™ *10G*IG™ Copper solutions in the data center improve efficiencies of computer devices (servers, switches, routers) and data storage within networks. Copper solutions also support finance, health care, and science sectors that require the high bandwidth and processing power of high performance computing (HPC) clusters to conduct complex analytical modeling tasks.

10 Gigabit Ethernet and Fibre Channel Over Fiber



The rapid growth of network traffic and the drive to build and better utilize data centers has many organizations looking toward the benefits of 10 Gigabit Ethernet (10 GbE) to process, manage, and store increasingly large amounts of data across the network. *PANDUIT® 10GIG™* Solutions incorporate innovative product systems, tools, appliances, software and services to deliver a comprehensive strategy for unifying the installation and management of your physical infrastructure.

PANDUIT has developed a comprehensive suite of *10GIG™* fiber products that push beyond the standards using *BEYOND THE GLASS℠* Design Excellence. New classes of multimode fibers (ISO designated as OM3 and enhanced OM3 [ie. OM4]) enable cost-effective structured cabling solutions by employing low-cost VCSEL-based transceivers to deliver reliable 10 Gigabit Ethernet performance at a reach of up to 300 m. Such fibers also exceed media requirements of ANSI Fibre Channel for 1GFC, 2GFC, 4GFC, 8GFC and 10GFC.

Selection of a multimode fiber structured cabling solution requires that data integrity, manageability, and security be balanced with reasonable cost expectations and future growth requirements. The availability of low-cost, high-speed transmitter technology makes 50µm laser-enhanced fiber media (i.e. OM3 and OM4) and connectivity systems a more cost-effective solution than laser-based systems. The most economical upgrade paths are those that leverage high fiber grade solutions wherever practical.

PANDUIT focuses on functional Bit Error Rate (BER) testing as the true determination of high-speed channel performance, and considers BER testing as the evaluation method most relevant to the reliable operation of high-speed Ethernet and Fibre Channel networks. Overall, *PANDUIT* fiber research, product development, and manufacturing expertise ensures its solutions deliver optimum performance and reliability for all network applications.

Fiber Optic Storage Networking Solutions

Regulations governing data warehousing and disaster recovery are spurring the construction of high-performing, reliable, and cost-effective storage networking to store, manage, and protect corporate records. As data traffic performance requirements continue to increase, from 4 Gbps and 8 Gbps standards today, to 16 Gbps and higher for future standards, the physical infrastructure must support these demands.

Ensuring high performance requires a complete systems approach to optical transceiver and fiber optic media selection, connectivity choice, channel design and headroom considerations. *PANDUIT's* comprehensive suite of fiber optic media and SAN infrastructure products exceed current fiber optic standards and are future-ready using *Beyond the Glass*℠ Design Excellence.

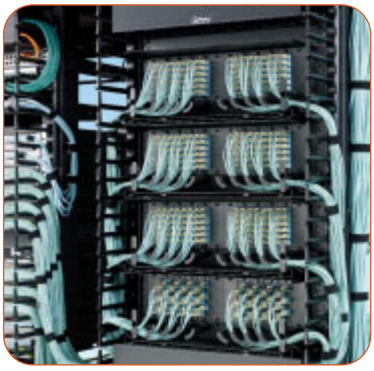
Our storage networking infrastructure solutions are comprised of modular components and high-density patching for maximum agility and scalability over the life of the data center. All system components work together and feature common form factors, accessories, cable routing and mounting methods so that any component of the physical infrastructure can be easily replicated or utilized elsewhere in the system:

- High-density patch fields with higher port counts accommodate more storage networking connectivity in the same physical space, optimizing equipment rack utilization and conserving valuable data center real estate.

- Best practices for cable management, equipment racking, distribution area layout, pathway routing and installation techniques ensure infrastructure agility – speed to deploy, increased installer productivity, efficient maintenance and fast response to changes – in an area where "no down time" is the operating norm.

Ultimately, our fiber research, manufacturing, and solutions development expertise ensure consistent high performance and reliability throughout the storage networking infrastructure.









Pre-Terminated Copper and Fiber Solutions







The ability to deploy cabling quickly with minimal system downtime and maximum reliability is key to efficient design and deployment of the physical infrastructure. An end-to-end pre-terminated, factory-tested cabling system is an ideal alternative to traditional cable installation, termination, and testing.

The *QuickNet*™ Pre-Terminated Cabling System assures quick "plug-in" network deployment and consistent performance while minimizing rework and scrap. Components are precision engineered as part of a complete structured cabling system, connecting switches, servers, and storage equipment via organized patch fields and distribution areas and enabling quick installation in both new and existing facilities. As a result, data centers can handle changing requirements faster and more efficiently than ever before.

The *QuickNet*™ Copper Cabling System is engineered for maximum design flexibility and high rack density utilization and offers 100% factory-tested pre-terminated cable assemblies in custom lengths and configurations. The *QuickNet*™ Plug Pack Assemblies facilitate quick and easy connection and disconnection of patch cords to a variety of switches, reducing time and cost associated when installing and maintaining structured cabling links.

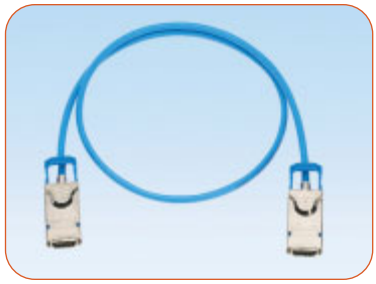
The *QuickNet*™ Fiber Optic Cabling System exceeds the requirements of IEEE 802.3ae 10 GbE and all high-speed ANSI Fibre Channel standards. *QuickNet*™ Cassettes and Trunk Cable Assemblies and new *QuickNet*™ SFQ Series Cassettes and Cable Assemblies offer maximum deployment flexibility in *QuickNet*™ Cassette Enclosures or Patch Panels. These fiber cabling components utilize duplex SC, LC, or MTP* multi-fiber array connectors for high-density, consistent performance, and high reliability. *QuickNet*™ Copper and Fiber Cassettes are interchangeable for interoperability and future upgrade options within the data center and telecommunications rooms.

Invest in a trouble-free, high performance infrastructure that leverages reliable, scalable *QuickNet*™ Pre-Terminated components to ensure consistent, dependable system performance with the lowest cost of ownership.

*MTP is a registered trademark of US Conec Ltd.

High Performance Computing and InfiniBand

InfiniBand is a scalable, high-speed interconnect architecture that has extremely low latency and low power consumption. These features have enabled InfiniBand to be the chosen interconnect solution for server clusters that can be implemented alongside Ethernet and Fibre Channel in high-performance computing (HPC) environments, such as academic, scientific, and financial organizations.



PANDUIT InfiniBand Cable Assemblies are part of a scalable, high speed interconnect solution, which includes copper and fiber cabling, *Net-Access*™ Server Cabinets, cable management and managed network systems. Standard InfiniBand 4X copper cable assemblies are comprised of eight shielded pairs (or four lanes) of 100 Ohm impedance twin-axial cable (i.e., Twinax), which differs from twisted pair copper used in Ethernet applications in that pairs of insulated conductors are laid side by side and enclosed in a foil shield. The InfiniBand connector is based on a precision screened and balanced edge card design supporting eight differential pairs.

The length and form factor of InfiniBand cables can vary based on application-specific requirements. Cables to be used over shorter distances can be manufactured with thinner wires with a smaller bend radius for improved cable management. For longer distances, active circuitry located within the connector can be used to extend the length of thicker-gauge cables, and generally results in a larger diameter and bend radius than Ethernet Category 5e or 6 cabling.

With the introduction of virtualized LANs (local area networks) and computing clusters in enterprise environments to run increasingly sophisticated and bandwidth-intensive applications, *PANDUIT* InfiniBand cabling assemblies support consistent, reliable performance of your high performance computing infrastructure. The result is a scalable, modular environment that increases the overall availability and efficiency of the computing infrastructure.

Network Grounding and Bonding





The network grounding and bonding system is more than just an insurance policy against a lightning strike. It is an active, functioning system that mitigates risk throughout the enterprise by providing crucial protection to equipment and personnel. Proper grounding is essential for efficient network system performance. Improper grounding can result in failures such as lower data transmission rates, unacceptable downtime, damaging expensive equipment and voiding equipment warranties.

Data center grounding is governed by documents TIA-942, J-STD-607-A, and IEEE Std 1100 (IEEE Emerald Book). According to these standards, a properly designed grounding system is one that is intentional, visually verifiable, adequately sized to handle expected currents safely and one that directs these potentially damaging currents away from sensitive communication equipment.

PANDUIT offers end-to-end solutions to meet customer needs and today's critical application requirements for grounding data centers. *PANDUIT*® *StructuredGround*™ Grounding System provides a high quality, visually verifiable, and dedicated grounding path to maintain system performance, improve network reliability, and protect network equipment and personnel. Highest reliability is ensured; this grounding system meets all applicable grounding and bonding industry standards. *PANDUIT*® *StructuredGround*™ Grounding System gives you what you need to properly protect your investment.

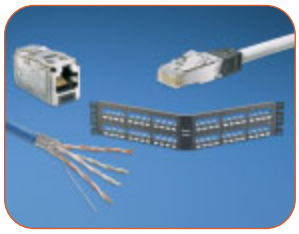
PHYSICAL SECURITY

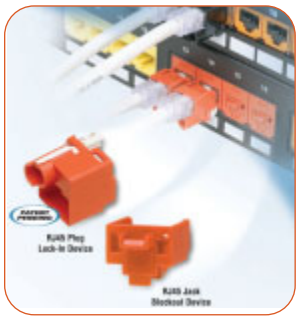
The network infrastructure provides the applications, support, services and security necessary to enable agility throughout the organization. It is critical that network security and protection guard against unauthorized access to reduce downtime, prevent vandalism or abuse to system components, and help ensure lowest cost of ownership.

PANDUIT physical security products reduce risk throughout the physical infrastructure and help organizations maintain secure control of sensitive or confidential information.

- Keyed LC Fiber Optic System incorporates positive/negative keying features and color-coding for effective physical layer security; keyed and color-coded connectors prevent unauthorized moves or changes in patch fields and at workstations
- *TX6™ 10GIG™* Shielded Copper Cabling reduces electromagnetic and radio frequency interference (EMI/RFI) to improve secure transmission of data between offices, branches, and remote locations
- *PANVIEW iQ™* Hardware and *PHYSICAL INFRASTRUCTURE MANAGEMENT™* Software is a next-generation physical infrastructure management system that provides real-time monitoring of patch field connectivity to enable quick detection of unintended or improper patch field changes
- RJ45 jack blockout and RJ45 plug lock-in devices provide simple and reliable methods to secure connections, control access to data, and deter vandalism to jacks – saving time and money associated with downtime, data security breaches, hardware replacement and infrastructure repair
- *PANZONE®* Zone Cabling Enclosures for ceiling, wall mount, and in-floor applications offer lockable features to protect against tampering, theft, or other physical abuse to network connections and cables











Whether in the data center, telecommunications rooms, factory floor or work area, *PANDUIT* creates innovative solutions that improve security for both data and equipment within the physical infrastructure, ensuring that only authorized individuals have access to building management systems and network devices.

Pages with this icon are part of physical security.

Connected Building Solutions



Enterprises today require the spaces they occupy to be supported by a wide variety of business systems and communication technologies. Traditional control systems for lighting, security, HVAC and energy management must now co-exist with IP-based voice, data and video communication technologies.

Connected building solutions link facility and network systems directly into the converged building network, generating and sharing data over a single platform to enhance the efficiency and effectiveness of the building as a whole. These solutions are based on running network cabling within shared pathways in order to extend the reach of a physically converged infrastructure to all devices and systems.

Most systems can be physically converged through shared conduit, cable trays, and building pathways; while logically they will converge through a switched IP network. This converged design allows building systems to be considered a true business asset, helping manage risk across the enterprise by:

- Reducing capital expenses by managing installation design and contracting
- Reducing operational expenses through efficient moves, adds, and changes
- Employing a scalable and smart infrastructure that supports TIA/EIA-568 and -569 telecommunications cabling standards
- Enabling greater occupant productivity, safety and comfort while maintaining the building value over time

The unified approach results in a reliable, interoperable, and scalable physical infrastructure that enables the deployment of converged applications throughout a building to improve manageability, lower total cost of ownership, and ultimately minimize risk.

Multi-Dwelling/Multi-Tenant Unit Media Services



Multi-dwelling units and/or multi-tenant units (MDU/MTU) consist of buildings with multiple floors and units designated for residential (complexes, apartments, and condominiums) or commercial use (hotels, office complexes, and retail buildings). Individuals occupying these spaces are increasingly demanding access to the latest multimedia communications with the ability for customization.

The *PANDUIT* media distribution system allows contractors and building owners to provide end-to-end voice, video, and data systems to their customers by consolidating all incoming communication cable from the building's entry point to a centralized high-density enclosure installed within each unit (typically in a utility or closet).The enclosure uses innovative hubs to distribute these triple play services to individual outlets enabling unique, customer-defined communication access to every room or office of the unit. As needs change, each occupant may easily modify services using modular hubs and high density features that support a greater number of media connections within the enclosure. As a result, the *PANDUIT* media distribution system delivers maximum use of space and greater service flexibility while maintaining aesthetics.

From the building demarcation point to the end user's network outlet, the *PANDUIT* media distribution system is the most comprehensive, cost-effective, and modular solution for distributing triple play services in support of today's applications and tomorrow's opportunities.

Wireless Solutions





The use of radio frequency technology to transmit and receive data has been heavily influenced in the past several years by the creation of IEEE 802.11 set of standards. These standards in turn have contributed to the tremendous growth in the use of WLANs (wireless local area networks) to deliver freedom and mobility to users accessing Ethernet networks. Integrated wired and wireless networks have become essential elements of successful enterprise environments, and are rapidly becoming necessities throughout college campuses, hospitals, convention centers, hotels and ancillary facilities.

PANDUIT has collaborated with Cisco Systems to deliver a complete wireless connection solution. This solution cost-effectively addresses network deployment, security, management and control issues by bringing together wired and wireless networks to enable application interoperability. An integrated network reduces the complexities associated with operating and maintaining active and passive hardware, software, and cabling across multiple environments.

The 802.11i compliant Cisco Systems Integrated Wireless Network includes two secure enterprise-class WLAN Solutions: the Cisco Systems Autonomous (Distributed) WLAN Solution and the Cisco Systems Light-Weight (Centralized) WLAN Solution. Both solutions address the WLAN security, deployment, management and control issues and are supported by Cisco Systems via a smooth migration plan that includes a wide variety of wireless access points, WLAN controllers, antennas and accessories.

Complementing the Cisco Systems Integrated Wireless Network are *PANDUIT* physical infrastructure solutions. Designed specifically to support a secured wired and wireless environment, *PANDUIT* copper and fiber cabling and connectivity systems, wireless access point enclosures and Power over Ethernet patch panels provide a reliable platform to ensure the most robust and secure enterprise LAN possible.

The *PANDUIT* wireless connection delivers proven interoperability that helps ensure reliability and performance throughout the enterprise LAN. End-users deploying an integrated wired and wireless network are able to maximize their network investment by extending their network applications throughout the enterprise in a reliable and cost-effective manner.

ULTIMATE ID® NETWORK LABELING

Permanent labeling is critical for all network cabling system installations. Proper labeling and identification of the physical infrastructure enhances the visibility of all network elements; reduces the time to make moves, adds, and changes; and contributes toward a safer network and data center environment.



PANDUIT® ULTIMATE ID® Network Labeling Solutions provide clean and efficient labeling of the network physical infrastructure in accordance with TIA/EIA-606-A. The *ULTIMATE ID®* system standardizes on a common label height across all *ULTIMATE ID®* products and supports *MINI-COM®* products (faceplates, surface mount boxes, patch panels) across your installation:

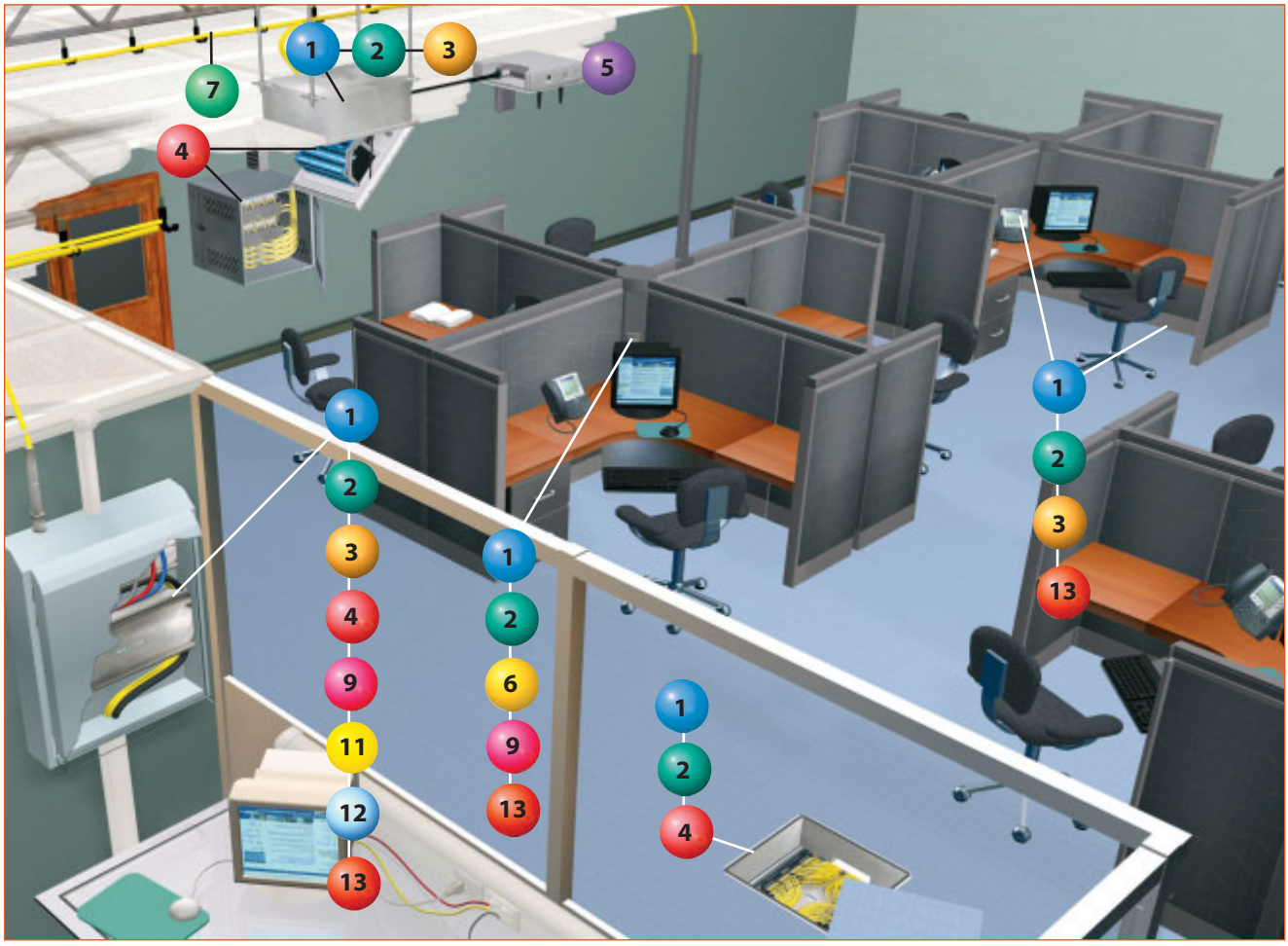
- All labels are protected by a tamper resistant transparent plastic cover
- All labels are positioned adjacent to, centered, and parallel to the port they are identifying
- All labels have the same compact height to enhance the appearance of the installation
- All labels are made of a durable, multi-layered, non-adhesive construction that makes installation and removal quick and easy
- The label cover surface is flush with the adjacent faceplate surface

ULTIMATE ID® Labeling Solutions are available for a variety of printers, including desktop, as well as the *PANDUIT® PANTHER™* LS8E Hand-Held Thermal Transfer Printer. The *PANTHER™* LS8E Printer makes compliant labeling fast and easy. Built-in programming lets you line up your legends on patch panel and faceplate labels without guessing how many spaces are needed, which makes the *PANTHER™* LS8E Printer the best solution for on-site network connectivity labeling.

ULTIMATE ID® Labeling Software for WINDOWS^ is designed for fast and easy creation of labels for *ULTIMATE ID®* Network System patch panels, faceplates, surface mount boxes and marker ties. The software features on-line help function file that includes *PANDUIT's* TIA/EIA-606-A Labeling Compliance Brochure which provides guidance on TIA/EIA-606-A labeling requirements and best practices.

^WINDOWS is a registered trademark of Microsoft Corp. in the United States and/or other countries.

Workstation Area Roadmap



1 **Copper Systems** (pages B.1 – B.45)



4 **Zone Cabling** (pages E.1 – E.12)





2 **Fiber Optic Systems** (pages C.1 – C.108)



5 **Wireless** (pages F.1 – F.8)





3 **Power over Ethernet** (pages D.1 – D.6)

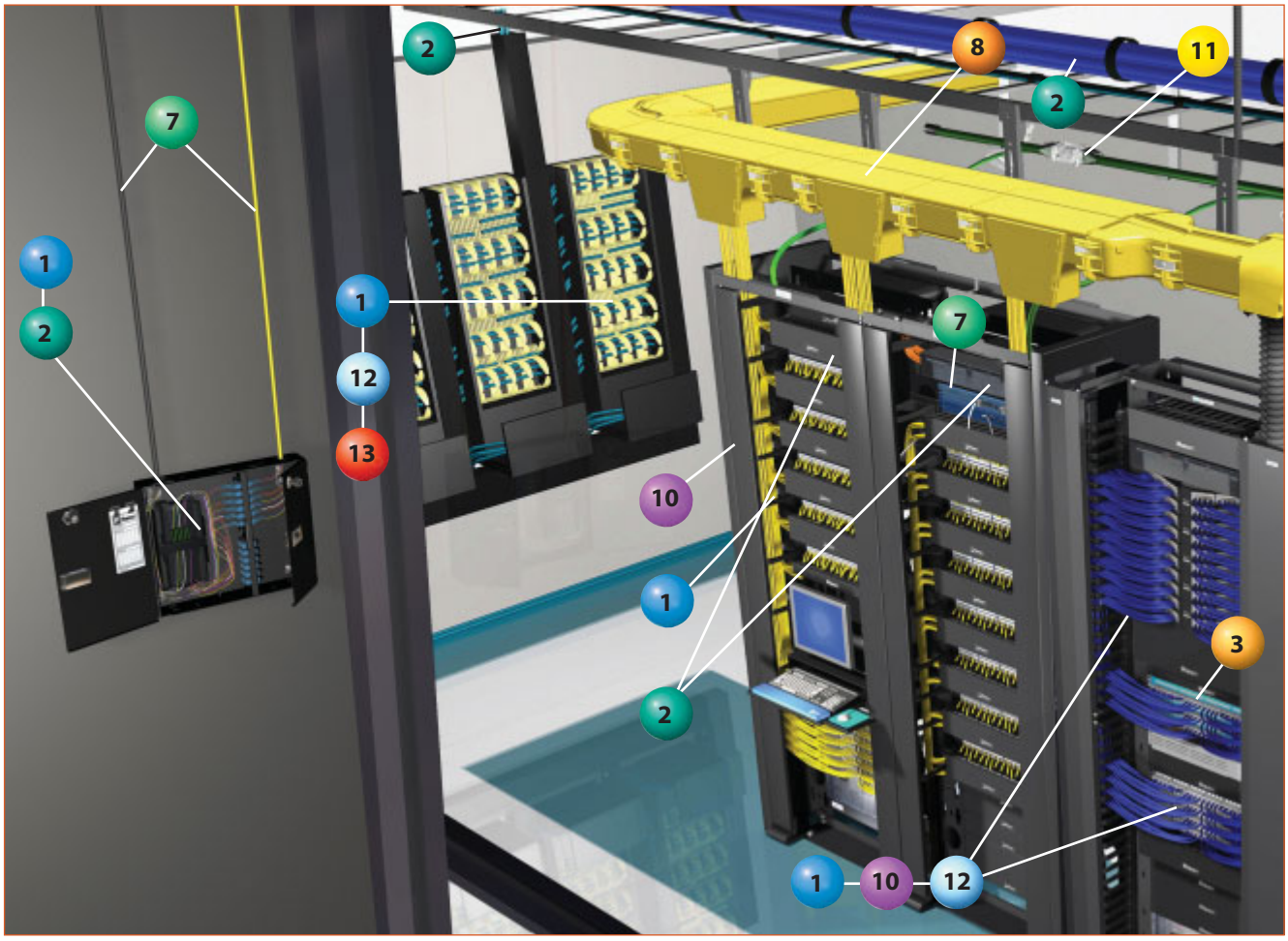


6 **Outlets** (pages G.1 – G.32)

ULTIMATE ID



TELECOMMUNICATIONS ROOM ROADMAP



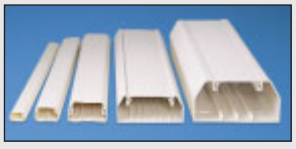
7 Physical Infrastructure Management (pages I.1 – I.8)



8 Overhead and Underfloor Routing (pages J.1 – J.62)



9 Surface Raceway (pages K.1 – 5.26)



10 Cabinets, Racks, and Cable Management (pages L.1 – L.48)



11 Grounding and Bonding (pages M.1 – M.52)



12 Labeling and Identification (pages O.1 – O.18)

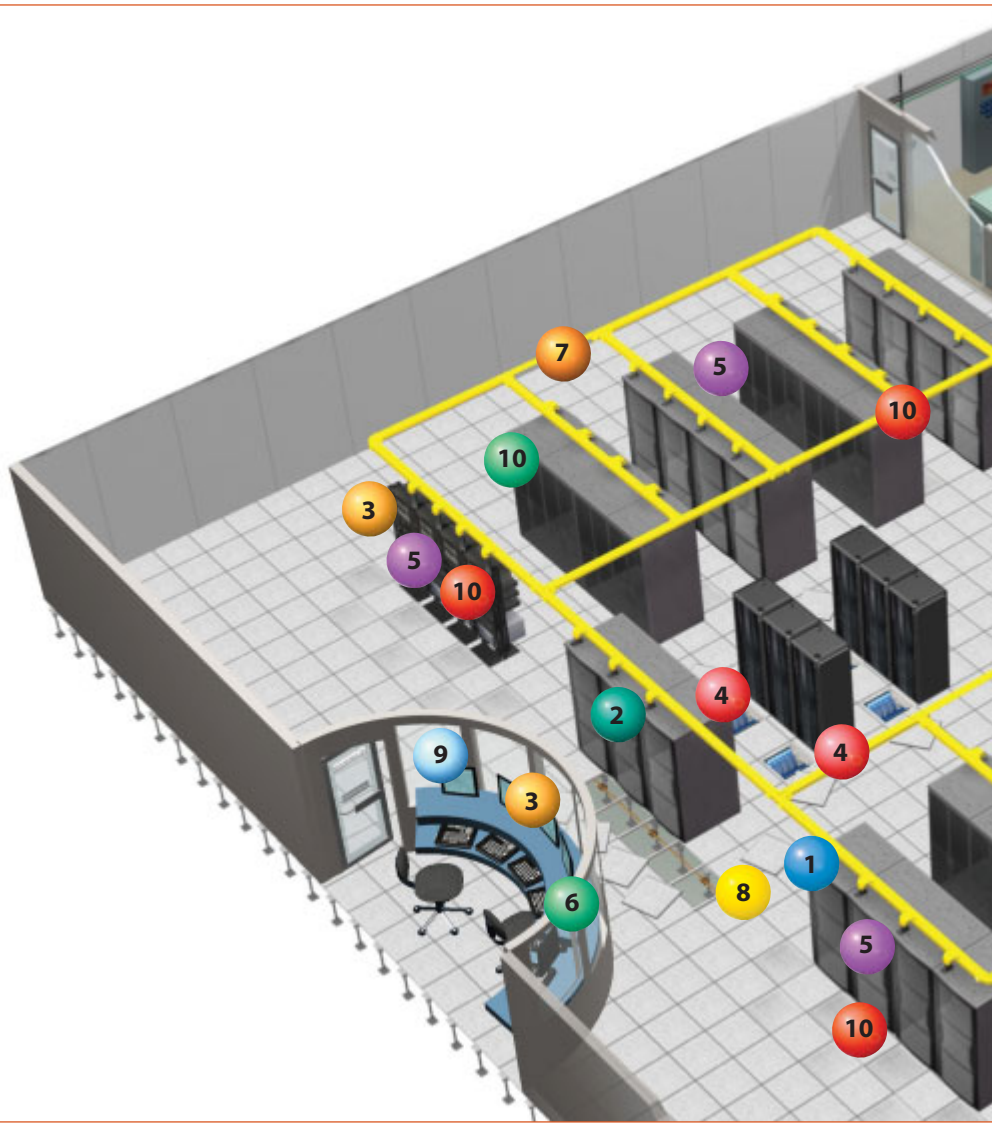
ULTIMATE ID



13 Cable Management Accessories (pages P.1 – P.46)



Data Center Roadmap



1 **Copper Systems** (pages B.1 – B.83)



2 **Fiber Optic Systems** (pages C.1 – C.108)



3 **Power over Ethernet** (pages D.1 – D.6)

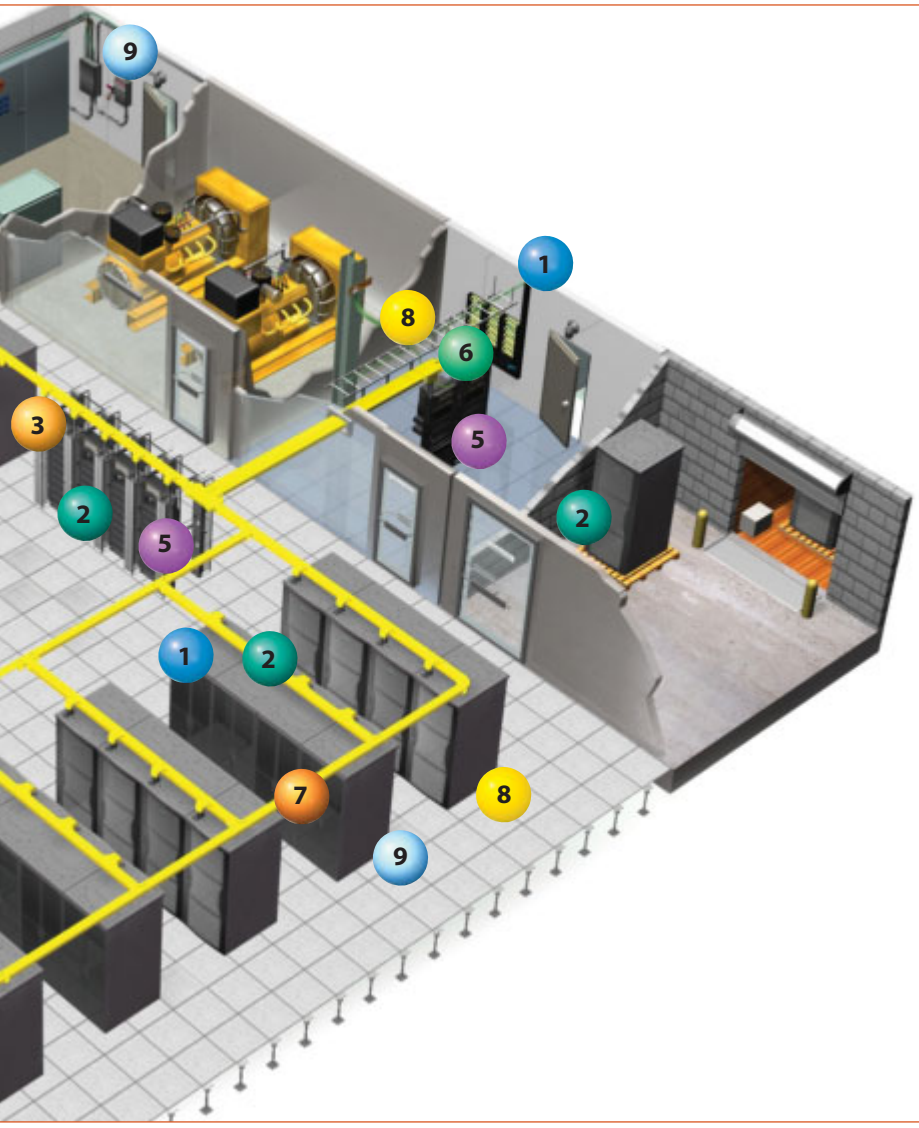


4 **Zone Cabling** (pages E.1 – E.12)



5 **Cabinets, Racks, and Cable Management** (pages L.1 – L.48)





6 **Physical Infrastructure Management (pages I.1 – I.8)**



9 **Labeling and Identification (pages O.1 – O.18)**



7 **Overhead and Underfloor Routing (pages J.1 – J.62)**



10 **Cable Management Accessories (pages P.1 – P.46)**



8 **Grounding and Bonding (pages M.1 – M.52)**



TX COPPER SYSTEMS SELECTION GUIDE

PANDUIT offers end-to-end cabling system solutions for copper and fiber cabling applications. *PANDUIT* cabling systems provide a complete, high performance, reliable, synergized structured cabling infrastructure to optimize your network performance while providing one point of contact.

	***PANDUIT*® *TX6*™ *10GIG*™ Systems**	***PANDUIT*® *TX6500*™ Systems**	***PANDUIT*® *TX6000*™ Systems**	***PANDUIT*® *TX5500*™ Systems**
Standards	• TIA/EIA-568-B.2-10 Augmented Category 6 • ISO/IEC 11801 Edition 2, Amendment 1 Class E_A	• TIA/EIA-568-B.2-1 Category 6 • ISO/IEC 11801 Edition 2 Class E • TSB-155 Supports 10GBASE-T applications up to 37 meter channels	• TIA/EIA-568-B.2-1 Category 6 • ISO/IEC 11801 Edition 2 Class E • TSB-155 Supports 10GBASE-T applications up to 37 meter channels	• TIA/EIA-568-B.2 Category 5e • ISO/IEC 11801 Edition 2 Class D
Performance (Bandwidth)	>500 MHz	>350 MHz	>300 MHz	>175 MHz
Applications	• Ethernet 10GBASE-T, 100BASE-T, 1000BASE-T (Gigabit Ethernet), 10GBASE-T • Data center applications for switch-to-switch links, storage area networks, computer cluster farms, storage on demand, and aggregation of data • Vital business management applications, scientific modeling, work group file transfer and media rendering • Web-enabling applications such as Voice over Internet Protocol (VoIP) and live video/audio broadcasting	• Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet), 10GBASE-T (10 Gigabit Ethernet over limited distances as specified in the industry 10GBASE-T standards) • 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM • Token Ring 4/16 • Digital video and broadband/baseband analog video • Large data transfers and multimedia transmissions	• Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet), 10GBASE-T (10 Gigabit Ethernet over limited distances as specified in the industry 10GBASE-T standards) • 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM • Token Ring 4/16 • Digital video and broadband/baseband analog video • Large data transfers and multimedia transmissions	• Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet), • 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM • Token Ring 4/16 • Voice/data systems • Voice over Internet Protocol (VoIP)
Pre-Terminated Connectivity	*QUICKNET*™ Copper Cabling System (pages. B.4 – B.9)	*QUICKNET*™ Copper Cabling System (pages. B.4 – B.9)	*QUICKNET*™ Copper Cabling System (pages. B.4 – B.9)	*QUICKNET*™ Copper Cabling System (pages. B.4 – B.9)
	QUICKNET™ Plug Pack Assemblies (pages. B.6 – B.7)	*QUICKNET*™ Plug Pack Assemblies (pages. B.6 – B.7)	*QUICKNET*™ Plug Pack Assemblies (pages. B.6 – B.7)	*QUICKNET*™ Plug Pack Assemblies (pages. B.6 – B.7)
Cable	*TX6*™ *10GIG*™ Copper Cable (pages. B.10 and B.14)	*TX6500*™ Enhanced Category 6 UTP Copper Cable (page. B.17)	*TX6000*™ Category 6 UTP Copper Cable (page. B.18)	*TX5500*™ Category 5e UTP Copper Cable (pages. B.27 and B.38)
Jack Modules	*MINI-COM*® *TX6*™ *10GIG*™ Jack Modules (pages. B.11 and B.15)	*MINI-COM*® *TX6*™ *PLUS* Jack Modules (pages. B.19 and B.25)	*MINI-COM*® *TX6*™ *PLUS* Jack Modules (pg. B.19)	*MINI-COM*® *TX5e*™ Jack Modules (pages. B.28 and B.35)
Patch Panels	*DP6*™ *10GIG*™ Patch Panels (page. B.12)	*DP6*™ *PLUS* Patch Panels (page. B.21)	*DP6*™ *PLUS* Patch Panels (page. B.21)	*DP5e*™ Patch Panels (page. B.30)
Patch Cords	*TX6*™ *10GIG*™ Patch Cords (pages. B.13 and B.16)	*TX6*™ *PLUS* Patch Cords (page. B.24)	*TX6*™ *PLUS* Patch Cords (page. B.24)	*TX5e*™ Patch Cords (pages. B.33 and B.36)
Punchdown Systems	—	*GP6*™ Punchdown System	*GP6*™ Punchdown System	*PAN-PUNCH*® 110 Category 5e Punchdown System

Fiber Optic Systems Selection Guide

	PANDUIT Multimode Systems			*PANDUIT* Singlemode Systems
	OM3 *10Gig*™ 50µm	**OM2 50µm**	**OM1 62.5µm**	**OS1/OS2 9µm**
Standards	• IEEE 802.3z 1GBASE-SX – 850nm • IEEE 802.3ae 10GBASE-S – 850nm 10GBASE-LX4 – CWDM • 1, 2, 4, 8, 10 Gigabit Fibre Channel, (FC-x00-M5E-SN-I, and 10GFC 1200); x = 1, 2, 4, 8, 10 • InfiniBand (IB-xX-yDR-SX); x = 1, 4, 8, 12 lanes; y = S, D, Q (Single, Double, Quadruple data rates) • SONET OC-192/SDH STM-64, (OIF VSR4-04)	• IEEE 802.3j 10BASE-F – 850nm • IEEE 802.3u 100BASE-FX – 850nm • IEEE 802.3z 1GBASE-SX – 850nm • IEEE 802.3ae 10GBASE-S – 850nm 10GBASE-LX4 – CWDM • 1, 2, 4 Gigabit Fibre Channel, (FC-x00-M5-SN-I); x = 1, 2, 4 • InfiniBand (IB-xX-yDR-SX); x = 1, 4, 8, 12 lanes; y = S, D, Q (Single, Double, Quadruple data rates)	• IEEE 802.3j 10BASE-F – 850nm • IEEE 802.3u 100BASE-FX – 850nm • IEEE 802.3z 1GBASE-SX – 850nm • IEEE 802.3ae 10GBASE-S – 850nm 10GBASE-LX4 – CWDM • 1, 2, 4 Gigabit Fibre Channel, (FC-x00-M5-SN-I); x = 1, 2, 4 • InfiniBand (IB-xX-yDR-SX); x = 1, 4, 8, 12 lanes; y = S, D, Q (Single, Double, Quadruple data rates)	• IEEE 802.3z 1GBASE-LX – 1310nm • IEEE 802.3ae: 10GBASE-LX4 – CWDM 10GBASE-LX – 1310nm 10GBASE-EX – 1550nm • InfiniBand (IB-xX-yDR-LX); x = 1, 4 lanes; y = S, D, Q (Single, Double, Quadruple data rates) • SONET OC-192 and OC-768
Bandwidth (EMBc in MHz.km)	• Standard reach fiber: >2000 • Extended reach fiber: >4700	• Standard reach fiber: >510 • Extended reach fiber: >950	• >220	N/A
Reach (@850nm)	• Standard reach OM3 fiber: up to 1000m (1GBASE-SX); up to 300m (10GBASE-S); up to 300m (10GBASE-LX4) • Extended reach OM3 fiber: up to 1040m (1GBASE-SX); up to 550m (10GBASE-S)	• Standard reach OM2 fiber: up to 600m (1GBASE-SX); up to 82m (10GBASE-S); up to 240m (10GBASE-LX4) • Extended reach OM2 fiber: up to 750m (1GBASE-SX); up to 150m (10GBASE-S)	• OM1 fiber: up to 300m (1GBASE-SX); up to 33m (10GBASE-S); up to 300m (10GBASE-LX4)	• OS1/OS2 fiber: up to 5km (1GBASE-LX); up to 10km (10GBASE-LX4); up to 10km (10GBASE-LX); up to 40km (10GBASE-EX)
Applications	• Data centers (switch-to-switch horizontal links)and storage area networks • Financial and medical applications; data warehousing • High performance computing – scientific modeling, simulation and Bioninformatics	• Building backbones and zone cabling • Fiber to the enclosure – delivery of high bandwidth to workgroup applications • Fiber to the desk – digital content creation and video file transaction	• Legacy building backbones and zone cabling • Fiber to the enclosure – delivery of high bandwidth to workgroup applications • Fiber to the desk – digital content creation and video file transaction	• Campus and building backbones • Entrance facilities and equipment rooms • Carrier equipment applications • "Dark fiber" enterprise applications
Cable	***Opti-Core*® Fiber Optic Cable**			
	10Gig™ OM3 Multimode (pages. C.4 – C.18)	OM2 Multimode (pages. C.4 – C.18)	OM1 Multimode (pages. C.4 – C.18)	OS1/OS2 Singlemode (pages. C.4 – C.18)
Fiber Optic Connectors	***OptiCam*® *Pre-Polished Cam*, *Opti-Crimp*® Pre-Polished Crimp, and Field Polish Connectors**			
	Multimode LC, Keyed LC and SC (pages. C.19 – C.30)	Multimode LC, Keyed LC, SC, ST and FJ® (pages. C.19 – C.36)	Multimode LC, Keyed LC, SC, ST and FJ® (pages. C.19 – C.36)	Singlemode LC, Keyed LC, SC, ST and FJ® (pages. C.19 – C.36)
Adapters, Adapter Modules, and Fiber Adapter Panels	**Fiber Optic Adapters, *Mini-Com*® Fiber Optic Adapter Modules, and *Opticom*® Fiber Adapter Panels**			
	10Gig™ OM3 Multimode MPO/MTP*, LC, Keyed LC and SC (pages. C.37 – C.49)	OS1 Multimode MPO/MTP*, LC, Keyed LC, SC, ST and MT-RJ (pages. C.37 – C.50)	OM1 Multimode MPO/MTP*, LC, Keyed LC, SC, ST and MT-RJ (pages. C.37 – C.50)	OS1/OS2 Singlemode MPO/MTP*, LC, Keyed LC, SC, ST and FC (pages. C.37 – C.50)
Pre-Terminated MTP*Cassettes	***QuickNet*™ *SFQ Series and QuickNet*™ MTP* Cassettes**			
	10Gig™ OM3 Multimode (pages. C.51 – C.58)	OM2 Multimode (pages. C.51 – C.58)	OM1 Multimode (pages. C.51 – C.58)	OS1/OS2 Singlemode (pages. C.51 – C.58)
Enclosures, Trays, Patch Panels and Accessories	***QuickNet*™ and *Opticom*® Enclosures, Trays and Patch Panels, and *Mini-Com*® Patch Panels**			
	(pages. C.59 – C.67)	(pages. C.59 – C.67)	(pages. C.59 – C.67)	(pages. C.59 – C.67)
Patch Cords, Pigtails, Reference Cable Assemblies and Kits	***Opti-Core*® Fiber Optic Patch Cords, Pigtails, and Reference Cable Assemblies and Kits**			
	10Gig™ OM3 Multimode LC, Keyed LC, and SC (pages. C.68 – C.92)	OM2 Multimode LC, Keyed LC, SC, ST, and FJ® (pages. C.68 – C.92)	OM1 Multimode LC, Keyed LC, SC, ST, and FJ® (pages. C.68 – C.92)	OS1/OS2 Singlemode LC, Keyed LC, SC, ST, and FJ® (pages. C.68 – C.92)
Hydra, Interconnect, and Trunk Cable Assemblies	***QuickNet*™ Hydra, Interconnect, MTP* Trunk, and Traditional Trunk Cable Assemblies**			
	10Gig™ OM3 Multimode (pages. C.93 – C.102)	OM2 Multimode (pages. C.93 – C.102)	OM1 Multimode (pages. C.93 – C.102)	OS1/OS2 Singlemode (pages. C.93 – C.102)
Termination Kits and Tools	***OptiCam*® , *Opti-Crimp*® , and Field Polish Connector Termination Kits and Tools**			
	(pages. C.103 – C.108)			

*MTP is a registered trademark of US Conec Ltd.





Global Services and Support

PANDUIT maintains a dedicated global sales force of highly qualified industry experts to provide professional, consultative sales guidance. In addition, partnership with *PANDUIT* Certified Installers, Designers, and System Integrators offers assistance from design through implementation and post-sale support. *PANDUIT* also teams with best-in-class partners to deliver interoperable, open architecture solutions. Combined, these partnerships provide the services and support to deliver comprehensive, reliable solutions and reduce the total cost of ownership.

Environmental Policy

PANDUIT embraces green thinking as a core value. As a global manufacturer, our mission is to design facilities and products for the present generation without compromising the ability of the future generations to meet their needs. Our company-wide commitment has resulted in the long-standing deployment of programs throughout our global facilities that use energy efficiently, reduce energy consumption, and minimize our ecological footprint.

Specifically, *PANDUIT* is committed to the prevention of pollution through compliance with applicable legal requirements and continuous improvement of our environmental performance. This policy is implemented through a mature and effective environmental management system (EMS) that includes planning, training, measurement, reporting and review. *PANDUIT* is also committed to being a good corporate neighbor by engaging in global long-term sustainability initiatives that protect, replenish, and restore the communities in which we live and operate.

We communicate our green philosophy throughout the industry as an active participant of the U.S. Green Building Council, developers of the LEED Green Building Rating System; The Green Grid, a global consortium dedicated to advancing the energy efficiency of data centers and business computing ecosystems worldwide; and the NEMA "Call to Action" steering committee, which is dedicated to limiting the use of hazardous materials in electrical products.

Restriction of Hazardous Substances (RoHS)

RoHS

Applicable *PANDUIT* products comply with the material restrictions of European directives on the *Restriction of Hazardous Substances* (RoHS; 2002/95/EC) and Waste Electrical and Electronic Equipment (WEEE; 2002/96/EC). All global *PANDUIT* manufacturing facilities are registered to the *ISO 14001:2004* and *ISO 9001:2000* standards, and we are currently working towards compliance with REACH regulations (Registration, Evaluation, Authorization and Restriction of Chemicals) passed by the European Union in 2007.

PANDUIT Channel Program

In an era where differentiation is not only appreciated but demanded, the *PANDUIT* program of global channel members consists of designers, system integrators, and contractors to create a best-in-class ecosystem. The program leverages the *Unified Physical Infrastructure*℠ (UPI) vision to move customers toward a smarter business foundation enabling business agility, operational efficiency, and lower cost of ownership. This comprehensive program addresses customer needs from plan and design to build and deploy to maintain and operate across critical physical infrastructure systems including power, computing, control, security, and communication.

Run a Better Business

With available industry and *PANDUIT* training programs, members can develop their project management skills, learn proper testing and installation techniques, and reduce risk while increasing operational efficiency. *PANDUIT's* broad product range, coupled with comprehensive programs, help members run a better business and bring value to the customer.

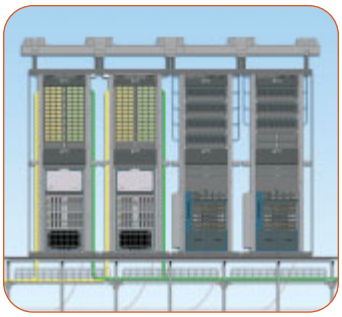
Increase Differentiation

PANDUIT channel members are informed of next generation technologies and solutions to help strategic engagement with customers. With a shared focus on the UPI vision, members can choose the path to deploy or design a specialized offering tailored to customer needs.

Enhance Customer Relevance

Customers will appreciate the added value members can bring to their business. Armed with the latest technology and a breadth of capabilities, members can focus on customer's needs and offer solutions to achieve strategic business objectives.

Certified members share our belief in providing high quality solutions and service, and have qualified professionals (eg. BICSI RCDD) on staff who understand business requirements to ensure proper design, integration, and installation. What makes this program unique is the establishment of a global network of consistently trained, qualified organizations which provide a full range of coordinated services to help customers quickly and effectively plan, deploy, and maintain the physical infrastructure.



PANDUIT Design Tools

The *PANDUIT* design tools program provides software tools that will speed up the design process and increase the quality of schematic design and construction drawings, IT/end customer drawings, specification and RFQs, utilizing *PANDUIT* products wherever possible.

These design tools allow a quick design of a data center or telecommunications room for a customer, allowing them to see a visual representation of that data center utilizing *PANDUIT* product. These visual representations can be in either 2D or 3D based on the designer's expertise and/or software configuration.



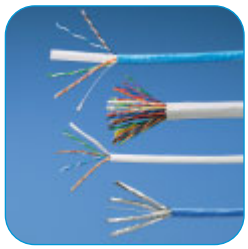
PANDUIT Professional Services

PANDUIT Professional Services ensure that the foundation on which your systems function is reliable and operationally efficient, so that you can focus on the maximizing value to your top of mind business objectives. Our primary objective is to help you identify and minimize the risk of physical layer issues by providing integrated services and solutions built around your business needs and fully integrated with your system's architecture.

PANDUIT methodology-based approach defines the most critical elements to minimize operational risk, maximize return on investment, and build a reliable physical infrastructure for any system deployment. Combining our global collaboration and delivery model with our network of skilled partners, we are able to deliver consistent, best-in-class physical infrastructure, anywhere in the world.

Copper Systems

PANDUIT offers end-to-end solutions for all twisted pair copper cabling applications. *TX*™ Copper Cabling Systems provide reliable network performance for the most demanding high-speed and bandwidth-demanding applications while exceeding the latest industry standards. *Mini-Com*® Modules are interchangeable within *PANDUIT* modular patch panels, faceplates, and surface mount boxes to provide modular solutions for intermediate to high-density installations. A variety of color enable color coding of connectivity for network segregation.















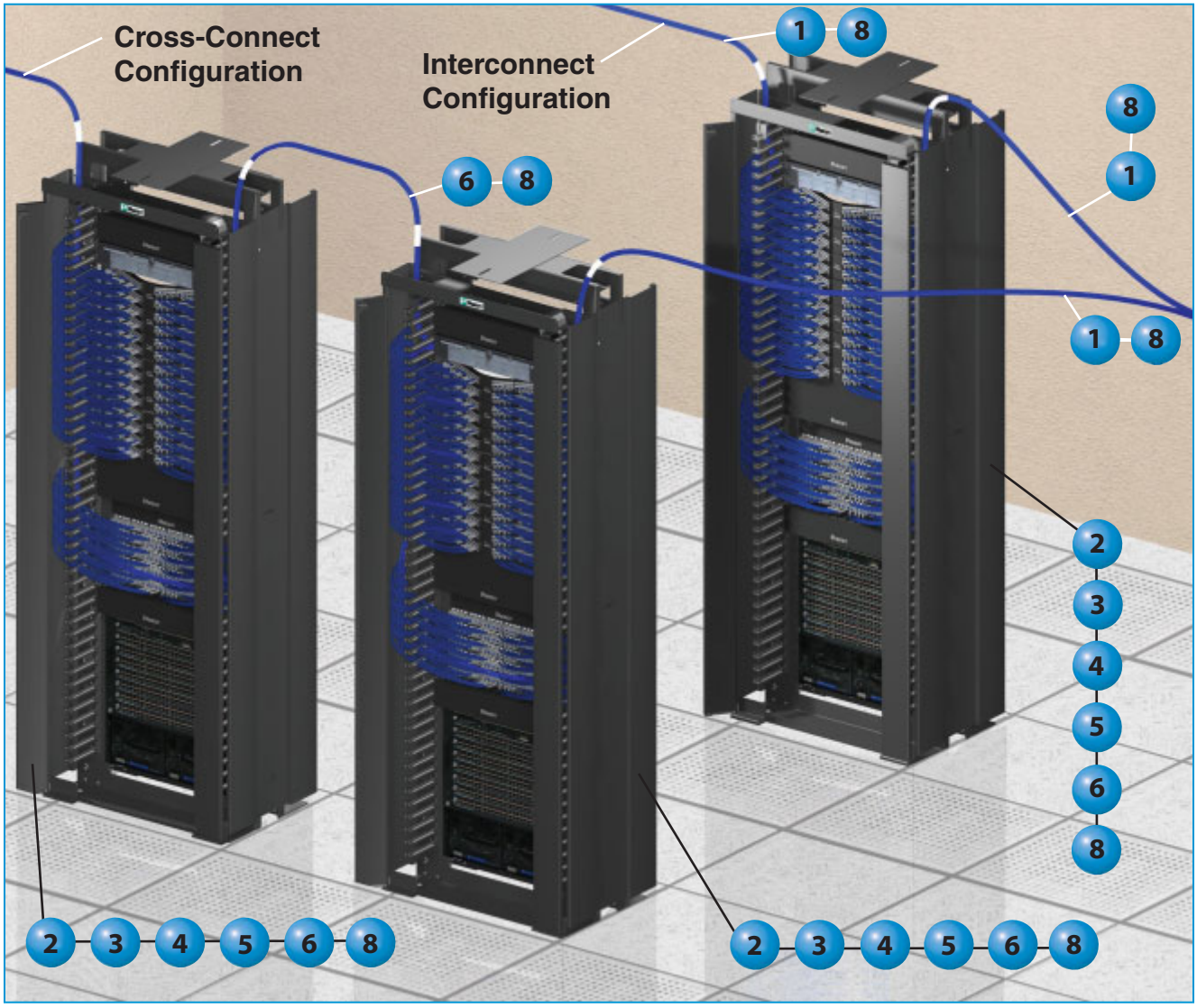




- **Pre-terminated solution can be installed in 75% less time than field-terminated installations, eliminating the need for on-site bundling, terminating, and testing**
- **Plug pack assemblies facilitate quick and easy connection and disconnection of patch cords to a variety of switches, reducing time and cost associated when installing and maintaining active equipment**
- **Copper cable is designed to be installed with *PANDUIT* connectivity products (jack modules, pre-terminated cassettes, patch panels and patch cords) to provide a reliable, modular, end-to-end solution**
- **Copper TG Style Jack Modules feature enhanced *Giga-TX*™ Technology optimizing performance by maintaining cable pair geometry and eliminating conductor untwist; forward motion termination places no impact on critical internal components for maximum reliability**
- **Patented angled patch panels facilitate proper bend radius control and minimize the need for horizontal cable managers, providing a high-density solution which conserves valuable rack space**

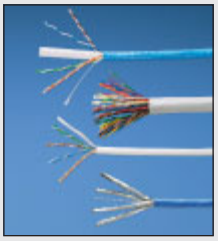
The *QuickNet*™ Copper Cabling System is a custom pre-terminated solution, designed to meet unique cabling requirements. Fast and simple to install, this high-density solution provides consistent network reliability and reduces on-site rework. *TX*™ Copper Cabling Systems are available in Category 6A, Category 6, and Category 5e performance levels and include STP and UTP copper cable, jack modules, patch cords and patch panels. *PANDUIT* solutions are designed with flexibility to support your growing and changing network requirements.

Copper Systems Roadmap

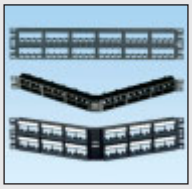


Data Center/Telecommunications Room

1 ***TX***™ **Copper Cable (pages B.10, B.14, B.17, B.18, B.27, B.38)**



3 ***Mini-Com***® **Modular Patch Panels (pages B.51 – B.60)**

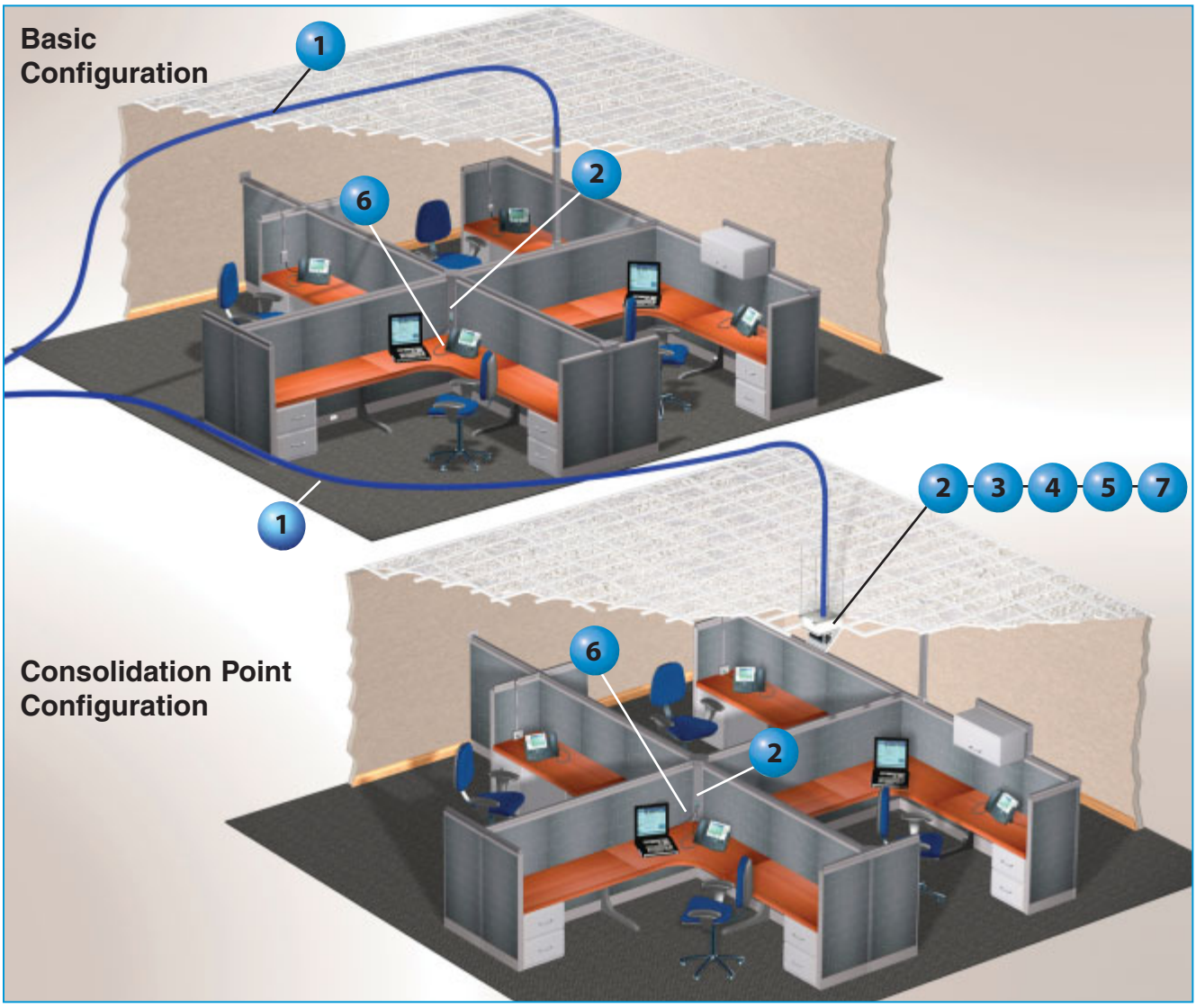


2 ***Mini-Com***® **Jack Modules (pages B.11, B.15, B.19, B.25, B.28, B.29, B.35, B.44 – B.49)**



4 **Punchdown and Coupler Patch Panels (pages B.12, B.21, B.23, B.30, B.32)**





Workstation Area

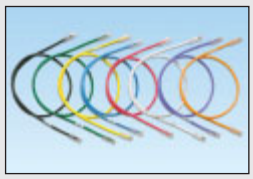
5 *QuickNet*™ Copper Cabling System (pages B.4 – B.9)



7 Zone Cabling (pages E.1 – E.12)



6 Patch Cords (pages B.13, B.16, B.24, B.33, B.36)



8 Grounding and Bonding (pages M.1 – M.52)



QuickNet™ Pre-Terminated Cable Assemblies

- Allow quick network deployment compared to field-terminated installations
- 100% performance tested to electrical permanent link specifications; shipped with permanent link test data for each link
- Terminated in factory controlled environment for consistent network performance
- Enable complete customization for all structured cabling requirements
- Pre-bundled with six cables for easy installation
- Plenum or riser cable flame ratings
- Category 6 UTP and Category 6A UTP/STP performance levels available
- Available in one foot increments, 10 – 295 feet
- Enable multiple termination types including, pre-terminated cassettes, jack modules, modular plugs, plug pack and/or unterminated options
- Pre-terminated cassettes snap in and out of *QuickNet*™ Patch Panels
- Quality assurance label includes serialized number for future traceability, performance level, and assembly length
- For proper bonding of *QuickNet*™ Pre-Terminated Shielded Cable Assemblies, see the *StructuredGround*™ Equipment Jumper Kit RGEJ1057PFY on page M.19



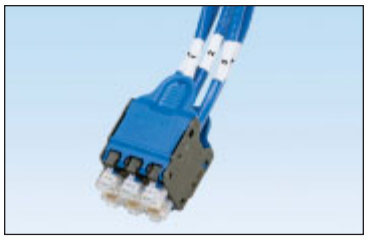
Pre-Terminated Cassette



Jack Modules



Modular Plugs



Plug Pack



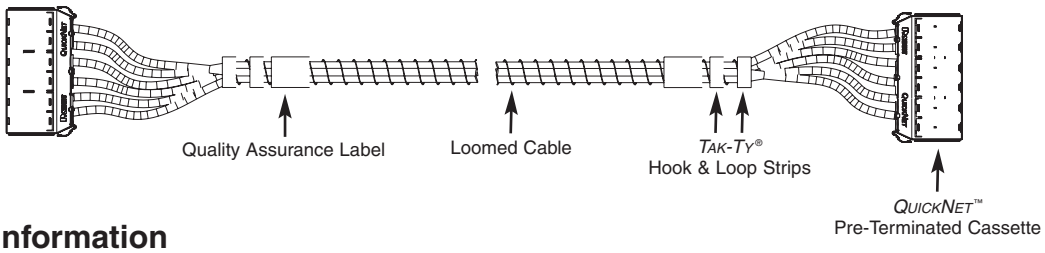
Un-Terminated

Part Number	Part Description	Cable Color	Termination End 1	Termination End 2	Length (Ft.)	Std. Pkg. Qty.
Category 6A UTP						
QARBCBCBXX50	*QuickNet*™ Cable Assembly made of Category 6A UTP Riser Cable with pre-terminated *TX6*™ *10GIG*™ UTP Jack Module Cassettes on each end.	Blue	Cassette	Cassette	50	1
QAPBCBCBXX50	*QuickNet*™ Cable Assembly made of Category 6A UTP Plenum Cable with pre-terminated *TX6*™ *10GIG*™ UTP Jack Module Cassettes on each end.	Blue	Cassette	Cassette	50	1
Category 6A Shielded						
QERBCBCBXX50	*QuickNet*™ Cable Assembly made of Category 6A STP Riser Cable and pre-terminated *TX6*™ *10GIG*™ Shielded Jack Module Cassettes on each end.	Blue	Cassette	Cassette	50	1
QEPBCBCBXX50	*QuickNet*™ Cable Assembly made of Category 6A STP Plenum Cable and pre-terminated *TX6*™ *10GIG*™ Shielded Jack Module Cassettes on each end.	Blue	Cassette	Cassette	50	1
Category 6 UTP						
QCRBCBCBUXX50	*QuickNet*™ Cable Assembly made of Category 6 UTP Riser Cable with pre-terminated *TX6*™ *10GIG*™ UTP Jack Module Cassettes on each end.	Blue	Cassette	Cassette	50	1
QCPBCBCBXX50	*QuickNet*™ Cable Assembly made of Category 6 UTP Plenum Cable with pre-terminated *TX6*™ *10GIG*™ UTP Jack Module Cassettes on each end.	Blue	Cassette	Cassette	50	1

The above part numbers in the table represent Cassette to Cassette *QuickNet*™ Cable Assemblies.
To build your own custom part number, see the configurator on the facing page.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

QuickNet™ Pre-Terminated Cable Assemblies (continued)



Ordering Information

Part Number Example:	**Q**	**A**	**P**	**B**	**C**	**B**	**C**	**B**	**X**	**X**	**10**
	1	2	3	4	5	6	7	8	9	10	11

Example – The above part number is a 10 foot *QuickNet*™ Pre-Terminated Cable Assembly constructed of Category 6A, UTP, plenum cable (blue) with a pre-terminated cassette (blue jacks installed) on each end.

1 – Q = ***QuickNet***™

2 – Performance Level
A = Category 6A (*10GIG*™) UTP
B = Category 6 Enhanced UTP
C = Category 6 UTP
E = Category 6A (*10GIG*™) STP

3 – Flame/Smoke Rating
R = Riser or P = Plenum

4 – Cable Color
B = Blue or W = White

5 – Termination End 1
A = Plug Pack
C = Cassette, J = Jack modules
P = Modular plugs
K = Jack modules staggered right
L = Jack modules staggered left
Q = Modular plugs staggered right
S = Modular plugs staggered left

6 – Termination End 1 Color Options

Cassette and Jack Module color options
B = Blue, E = Electric Ivory, G = Green, H = Off White, I = International Gray, L = Black, O = Orange, R = Red, V = Violet, W = White, Y = Yellow
Shielded Jack Modules, chose option L, all Shielded Jack Modules are Black

Plug Pack color options
B = Blue, W = White, R = Red, L = Black

Modular Plug color options
X = No color option available, all modular plugs are clear

7 – Termination End 2
A = Plug pack
C = Cassette
J = Jack modules
P = Modular plugs
K = Jack modules staggered right
L = Jack modules staggered left
Q = Modular plugs staggered right
S = Modular plugs staggered left
U = Unterminated
O = Unterminated with cassette and jack modules for on-site termination

8 – Termination End 2 Color Options

Cassette, Jack Module and Unterminated color options
B = Blue, E = Electric Ivory, G = Green, H = Off White, I = International Gray, L = Black, O = Orange, R = Red, V = Violet, W = White, Y = Yellow
Shielded Jack Modules, chose option X, all Shielded Jack Modules are Black

Plug Pack color options
B = Blue, W = White, R = Red, L = Black

Modular Plug color options
X = No color option available, all modular plugs are clear

Unterminated color option
X = No color option available

9 – Assembly Options
P = Pulling eye
X = No assembly options requested

10 – Custom Labeling*
L = Custom assembly label
C = Custom cable labels
B = Custom assembly and cable labels
X = No custom labels requested

11 – Assembly Length**
10' – 295'

*Custom cable assembly labels are available up to eighteen characters; individual cable labels are available up to fifteen characters.
***QuickNet*™ Pre-Terminated Cable Assemblies are available in one foot increments in lengths 10 – 295 feet.
All connectivity is wired T568B. Category 6 Enhanced Performance level utilizes *PANDUIT® TX6500*™ Category 6 UTP Cable.
Permanent link test results shipped with each cable assembly.

NEW! QuickNet™ Plug Pack Assemblies

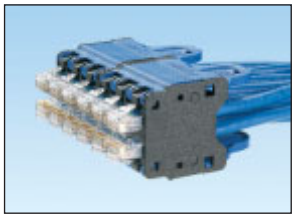
- Facilitate quick and easy connection and disconnection of multiple patch cords, simultaneously to a variety of switches, reducing time and cost associated when installing and maintaining structured cabling links
- Available in 6, 8, or 12 pack configurations for optimal switch compatibility
- Available in Category 6A, Category 6, and Category 5e performance levels for UTP installations and Category 6A shielded installations
- Plug meets all applicable FCC part 68 Subpart F requirements and exceeds IEC 60603-7 specifications
- Each patch cord is 100% performance tested
- Integrated finger latch enables quick, one-handed installation and removal from switch
- Low profile design allows assemblies to be installed side by side or stacked on top of each other providing maximum port density in high density installations
- Marker ties enable easy identification in high density installations and provides additional level of security when used with optional lock in device
- Labels on patch cords provide identification of performance level, length, and quality control number
- Optional removal tool (QPPRT) facilitates removal of individual cable links without disrupting service to other network connections
- Optional lock in device (QPPLD6-X and QPPLD8-X) prevents unintentional removal of assembly from the switch for an additional level of security
- UTP cable available in blue or white; shielded cable available in blue or international gray
- Plug packs available in blue or white



6 Pack Plug Pack



8 Pack Plug Pack



12 Pack Plug Pack

Part Number	Part Description	Cable Color	Termination End 1	Color	Termination End 2	Length (Ft.)	Length (m)	Std. Pkg. Qty.	Std. Ctn. Qty.
Category 6A UTP									
QPPACBAB07	QuickNet® Plug Pack Cable Assembly made with Category 6A, CM blue cable with a 6-pack blue plug pack on one end and modular plugs on the other end.	Blue	Modular Plugs	Blue Plug Pack	Plug Pack with Modular Plugs	7	2.13	1	10
Category 6A Shielded									
QPPEDBAB07	QuickNet® Plug Pack Cable Assembly made with Category 6A, DR blue cable with a 6-pack blue plug pack on one end and modular plugs on the other end.	Blue	Modular Plugs	Blue Plug Pack	Plug Pack with Modular Plugs	7	2.13	1	10
Category 6 UTP									
QPPCCBAB07	QuickNet® Plug Pack Cable Assembly made with Category 6, CM blue cable with a 6-pack blue plug pack on one end and modular plugs on the other end.	Blue	Modular Plugs	Blue Plug Pack	Plug Pack with Modular Plugs	7	2.13	1	10
Category 5e UTP									
QPPDCBAB07	QuickNet® Plug Pack Cable Assembly made with Category 5e, CM blue cable with a 6-pack blue plug pack on one end and modular plugs on the other end.	Blue	Modular Plugs	Blue Plug Pack	Plug Pack with Modular Plugs	7	2.13	1	10

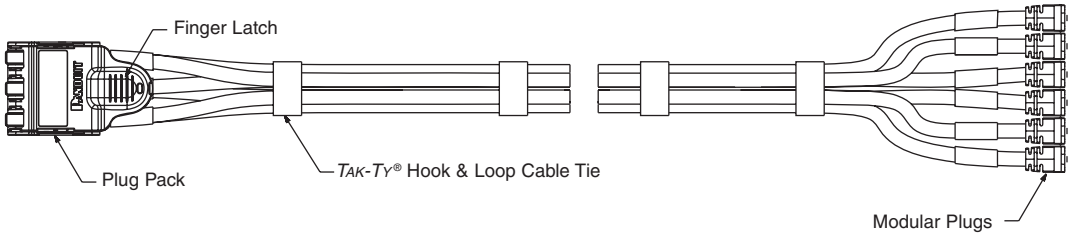
Removal tool available on page B.9.
Lock in device available on page B.9.

The above part numbers in the table represent 6 pack QuickNet™ Plug Pack assemblies.
To build your own standard part number, see the configurator on the facing page.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

QuickNet™ Plug Pack Assembly Ordering Information



Part Number Example:

QPP	A	C	B	A	B	03
1	2	3	4	5	6	7

Example – The above part number is a 3 foot QuickNet™ Plug Pack Cable Assembly constructed of Category 6A, UTP, CM cable (blue) with a 6 plug pack (blue) on one end and modular plugs on the other end.

1 – QuickNet™ Plug Pack Assembly (QPP)

2 – Performance Level
- A = Category 6A (*10GIG*™) UTP
- E = Category 6A (*10GIG*™)/Category 6 STP*
- C = Category 6 UTP
- D = Category 5e UTP

3 – Flame/Smoke Rating
- C = CM (UTP only)
- D = Dual rated CM and LSZH (shielded only)

4 – Cable Color
- B = Blue
- W = White

5 – Plug Pack Configuration
- A = 6 pack
- B = 12 pack
- D = 8 pack

6 – Plug Pack Color**
- B = Blue
- W = White

7 – Assembly Length
- 03 = 3 feet
- 05 = 5 feet
- 07 = 7 feet
- 10 = 10 feet
- 14 = 14 feet

All UTP cable is available in CM Flame/Smoke Rating.
*All STP cable is dual rated for CM and LSZH applications.
**Non-standard plug pack colors are available in red and black.

QuickNet™ Patch Panels

- Accept *QuickNet*™ Copper Cable Assemblies and *QuickNet*™ SFQ Series MTP* Fiber Optic Cassettes which snap in and out with one hand
- High-density patch panels conserve valuable rack space
- Angled patch panels facilitate proper bend radius control and minimize the need for horizontal cable managers
- Pre-printed numbers above each port for easy identification
- Mount to standard EIA 19" racks or 23" racks with optional extender brackets
- Optional patch panel adapter (QPPABL) accepts all *Mini-Com*® Modules for UTP, fiber optic, and audio/visual applications
- Optional patch panel blank (QPPBBL) promotes proper airflow and cooling
- Label/label cover kit (QPPLC24) provides port and panel identification for 24-port patch panels



QAPP24BL



QAPP48HDBL



QPP24BL



QPP48HDBL



QPPABL



QPPBBL

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
***QuickNet*™ Angled Patch Panels**				
QAPP24BL	24-port angled patch panel which accepts *QuickNet*™ Pre-Terminated Cassettes and Patch Panel Adapters.	1	1	10
QAPP48HDBL	48-port angled patch panel which accepts *QuickNet*™ Pre-Terminated Cassettes and Patch Panel Adapters.	1	1	10
QAPP48HDVNSBL	48-port angled patch panel which accepts *QuickNet*™ Pre-Terminated Cassettes and Patch Panel Adapters. Numbering sequence is top to bottom across patch panel.	1	1	10
***QuickNet*™ Patch Panels**				
QPP24BL	24-port patch panel which accepts *QuickNet*™ Pre-Terminated Cassettes and Patch Panel Adapters.	1	1	10
QPP48HDBL	48-port patch panel which accepts *QuickNet*™ Pre-Terminated Cassettes and Patch Panel Adapters.	1	1	10
QPP48HDVNSBL	48-port patch panel which accepts *QuickNet*™ Pre-Terminated Cassettes and Patch Panel Adapters. Numbering sequence is top to bottom across patch panel.	1	1	10
Patch Panel Adapter				
QPPABL	*QuickNet*™ Patch Panel Adapter which accepts *Mini-Com*® Modules for UTP, fiber optic, and audio/visual applications.	—	1	10
Patch Panel Blank				
QPPBBL	*QuickNet*™ Patch Panel Blank reserves space for future use and promotes proper airflow and cooling.	—	1	10
Patch Panel Label Kit				
QPPLC24	Label/label cover kit for 24-port *QuickNet*™ Patch Panels. Each kit contains four labels and four clear label covers per bag.	—	1	10

*MTP is a registered trademark of US Conec Ltd.
^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.
QuickNet™ Pre-Terminated Cable Assemblies available on pages B.4 – B.5.
QuickNet™ SFQ Series MTP* Fiber Optic Cassettes available on page C.51.

Component Labels for *QuickNet*™ Plug Pack Assemblies



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PanTher*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand-Held Printer Label
QPPACBAB07 QPPEDBAB07 QPPCCBAB07 QPPDCBAB07	C125X030FJJ	C125X030YPT	C125X030FJC	T050X000VPC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

QuickNet™ Plug Pack Removal Tool

NEW!

- Allows individual patch cords to be removed from a plug pack without disruption of other network connections
- Compatible with 6, 8, and 12 pack *QuickNet*™ Plug Pack Assemblies



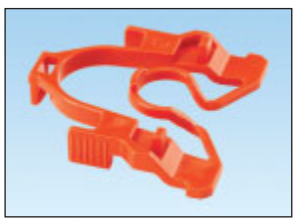
Part Number	Part Description	Std. Pkg. Qty.
QPPRT	Removal tool allows individual patch cords to be removed from a plug pack without disruption of other network connections.	1

QuickNet™ Plug Pack Assemblies available on pages B.6 and B.7.

QuickNet™ Plug Pack Lock-in Device

NEW!

- Prevents unintentional removal of *QuickNet*™ Plug Pack Assembly from the switch
- Marker tie (included with assembly) can be used to connect plug pack and lock-in device for additional level of security
- Two recommended per plug pack



QPPLD6-X

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
QPPLD6-X	Lock-in device prevents unauthorized removal of patch cords from 6 and 12 pack plug pack.	10	100
QPPLD8-X	Lock-in device prevents unauthorized removal of patch cords from 8 pack plug pack. Recommended quantity two per 8 pack.	10	100

Recommended quantity two QPPLD6 per 6 pack plug pack, four QPPLD6 per 12 pack plug pack, and two QPPLD8 per 8 plug pack plug pack.

QuickNet™ Plug Pack Assemblies available on pages B.6 and B.7.

TX6A™ 10GIG™ UTP Copper Cable

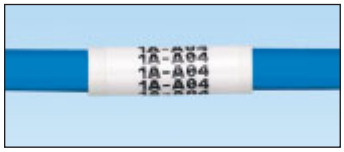
- Exceeds requirements of ANSI/TIA/EIA-568-B.2-10 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class E_A channel standards
- Exceeds requirements of ANSI/TIA/EIA-568-B.2-10 Category 6A and IEC 61156-5 Category 6_A component standards
- Patent-pending cable design drastically suppresses alien cross talk with enhanced internal electrical performance
- Round cable design with reduced cable diameter enables improved cable bundling and optimizes fill capacity
- Cable diameter: Riser 0.294 in. (7.5mm) nominal, Plenum 0.305 (7.7mm) nominal
- Installation temperature range: 32°F to 140°F (0°C to 60°C)
- Operating temperature range: 14°F to 140°F (-10°C to 60°C)
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap



Part Number	Part Description	Color‡	Std. Pkg. Qty. (Ft.)	Std. Ctn. Qty. (Ft.)
Riser				
PUR6A04BU-UG	Category 6A riser (CMR) 4-pair UTP copper cable. Copper conductors are 23 AWG. Conductors are twisted in pairs, separated by an integrated pair divider, surrounded by a patent-pending matrix tape and protected by a flame-retardant jacket.	Blue	1000	18000
Plenum				
PUP6A04BU-UG	Category 6A plenum (CMP) 4-pair UTP copper cable. Copper conductors are 23 AWG. Conductors are twisted in pairs, separated by an integrated pair divider, surrounded by a patent-pending matrix tape and protected by a low smoke, flame-retardant jacket.	Blue	1000	18000

‡For standard colors other than Blue, replace BU (Blue) with WH (White), YL (Yellow), or IG (International Gray).
Order number of pieces required, in multiples of Standard Carton Quantity (Pallet).
Must be installed as part of a complete *TX6™ 10GIG™* Copper Cabling System in order to achieve 10GBASE-T certified performance.

Cable Labels for TX6A™ 10GIG™ UTP Cable



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Cable Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER™* LS8E Hand-Held Printer Label**	***COUGAR™* LS9 Hand-Held Printer Label**
PUR6A04-UG PUP6A04**-UG**	**S100X225YAJ**	**S100X225VATY**	**S100X225VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Mini-Com® TX6™ 10Gig™ UTP Jack Modules

- Exceed requirements of ANSI/TIA/EIA-568-B.2-10 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class E_A channel standards
- Exceed requirements of ANSI/TIA/EIA-568-B.2-10 Category 6A and IEC 61156-5 Category 6_A component standards
- Meet draft requirements of IEEE 802.3at for PoE Plus
- Each jack is 100% tested to ensure NEXT and RL performance and is individually serialized for traceability
- Utilize patent-pending enhanced *Giga-TX™* Technology for jack terminations which optimizes performance by maintaining cable pair geometry and eliminating conductor untwist
- Contacts plated with 50 microinches of gold for superior performance
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability
- Optional termination tool (TGJT) reduces termination time by 25%, ideal for high volume installations
- Can be re-terminated a minimum of twenty times
- Blue termination cap designates *10Gig™* Category 6A performance and provides positive strain relief; helps control cable bend radius and securely retains wires
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded twisted pair cable
- Universal termination cap is color coded for T568A and T568B wiring schemes
- Accept 6 and 8-position modular plugs without damage
- Can be clearly identified with optional labels and icons
- Compatible with *Mini-Com®* Modular Patch Panels, Faceplates, and Surface Mount Boxes



Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CJ6X88TGIW	Category 6A, RJ45, 10 Gb/s, 8-position, 8-wire universal module.	1	Off White	1	50
CJ6X88TGIW-24	Category 6A, RJ45, 10 Gb/s, 8-position, 8-wire universal module, bulk packaged.	1	Off White	24	240

‡For standard colors other than Off White, replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow) or VL (Violet).
Termination tools available on page B.82.
Must be installed as part of a complete *TX6™ 10Gig™* Copper Cabling System in order to achieve 10GBASE-T certified performance.

Component Labels for *Mini-Com® TX6™ 10Gig™* UTP Jack Modules



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Module Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PanTher™* LS8E Hand-Held Printer Label**	***Cougar™* LS9 Hand-Held Printer Label**
All *TX6™ 10Gig™* Jack Modules	**C138X019FJJ**	**C138X019YPT**	**C138X019FJC**	**T019X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

DP6™ 10GIG™ UTP Patch Panels

- Exceed requirements of ANSI/TIA/EIA-568-B.2-10 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class E_A channel standards
- Exceed requirements of ANSI/TIA/EIA-568-B.2-10 Category 6A and IEC 61156-5 Category 6_A component standards
- Meet draft requirements of IEEE 802.3at for PoE Plus
- Each port is 100% tested to ensure NEXT and RL performance and is individually serialized to support traceability
- Utilize 110 punchdown termination on back panel and include retention cap for each port
- Each port contains a universal label that is color coded for T568A and T568B wiring schemes
- Contacts plated with 50 microinches of gold for superior performance
- Angled versions allow for higher density applications by easily routing the patch cords to each side of the panel eliminating the need for horizontal cable management
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded twisted pair cable
- Mount to standard EIA 19" rack or 23" racks with optional extender bracket
- Write-on areas for port and panel identification
- Can be clearly identified with labels and icons
- Optional label kits (DPLK24 and DPLK48) contain adhesive label holder and labels for easy port and panel identification



DPA246X88TGY



DPA486X88TGY



DP246X88TGY



DP486X88TGY

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
***DP6™ 10GIG™* Angled Patch Panels**				
DPA246X88TGY	24-port, angled, Category 6A, 10 Gb/s patch panel with 24 RJ45 8-position, 8-wire ports.	1	1	10
DPA486X88TGY	48-port, angled, Category 6A, 10 Gb/s patch panel with 48 RJ45 8-position, 8-wire ports.	2	1	10
***DP6™ 10GIG™* Flat Patch Panels**				
DP246X88TGY	24-port, Category 6A, 10 Gb/s patch panel with 24 RJ45 8-position, 8-wire ports.	1	1	10
DP486X88TGY	48-port, Category 6A, 10 Gb/s patch panel with 48 RJ45 8-position, 8-wire ports.	2	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.
Replaceable punchdown modules available, part number DRJ6X88TGBL.
Termination tool (PDT110) available on page B.77.
Must be installed as part of a complete *TX6™ 10GIG™* Copper Cabling System in order to achieve 10GBASE-T certified performance.

Component Labels for *DP6™ 10GIG™* UTP Patch Panels

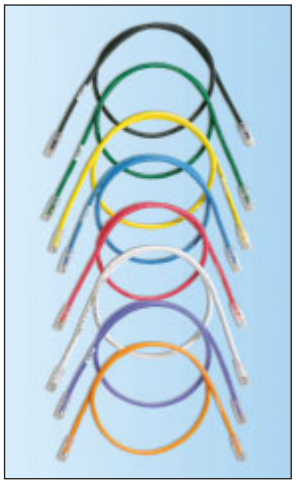


Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER™* LS8E Hand-Held Printer Label**	***COUGAR™* LS9 Hand-Held Printer Label**
All Patch Panels on this Page	**C379X030FJJ**	**C379X030YPT**	**C379X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

TX6™ *10GIG*™ UTP Patch Cords

- Exceed requirements of ANSI/TIA/EIA-568-B.2-10 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class E_A channel standards
- Exceed requirements of ANSI/TIA/EIA-568-B.2-10 Category 6A and IEC 61156-5 Category 6_A component standards
- Meet draft requirements of IEEE 802.3at for PoE Plus
- Each patch cord is 100% performance tested and wired to T568B
- Constructed of *TX6*™ *10GIG*™ 24 AWG solid copper cable (nominal cable diameter is .290 inches) and *TX6*™ *PLUS* Modular Plugs for superior performance
- Plug meets all applicable ANSI/TIA-968-A requirements and exceeds IEC 60603-7 specifications
- Slender strain relief boot provides easy access in high density applications
- Plug uses an integral pair manager to optimize performance and consistency by reducing untwisting of conductors within the plug
- Plug performance in center of TIA/EIA component range, ensuring interoperability and 10GBASE-T Ethernet channel performance
- Labels on patch cords provide identification of performance level, length, and quality control number
- Patented tangle free latch prevents snags and provides easy release, saving time on frequent moves, adds, and changes
- Optional Patch Cord Color Bands snap on and off individual patch cables offering endless color coding options



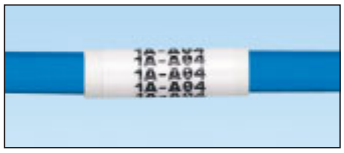
Part Number	Part Description	Length (Ft.)‡	Cable Color	Std. Pkg. Qty.	Std. Ctn. Qty.
UTP6X3BUY	Category 6A, 10Gb/s UTP patch cord with *TX6*™ *PLUS* Modular Plugs on each end.	3	Blue	1	10
UTP6X5BUY		5	Blue	1	10
UTP6X7BUY		7	Blue	1	10
UTP6X10BUY		10	Blue	1	10
UTP6X14BUY		14	Blue	1	10
UTP6X20BUY		20	Blue	1	10

‡For lengths 3 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), GR (Green), YL (Yellow), OR (Orange) or VL (Violet) before the Y at the end of the part number. For example, the part number for a blue 15-foot patch cord is UTP6X15BUY.

Patch Cord Color Bands available on page B.81.

Must be installed as part of a complete *TX6*™ *10GIG*™ Copper Cabling System in order to achieve 10GBASE-T certified performance.

Cable Labels for *TX6*™ *10GIG*™ UTP Patch Cords



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER***™ **LS8E Hand-Held Printer Label**	***COUGAR***™ **LS9 Hand-Held Printer Label**
All UTP6X Patch Cords	**S100X225YAJ**	**S100X225VATY**	**S100X225VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

TX6™ *10GIG*™ Shielded Copper Cable

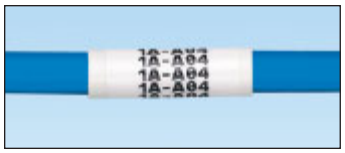
- Exceeds requirements of ANSI/TIA/EIA-568-B.2-10 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class E_A channel standards
- Exceeds requirements of ANSI/TIA/EIA-568-B.2-10 Category 6A and IEC 61156-5 Category 6_A component standards
- Third party tested to comply with ANSI/TIA/EIA-568B.2-10
- Cable diameter: Riser 0.308 in. (7.8mm) nominal, Plenum 0.295 in. (7.5mm) nominal
- Installation temperature range: 32°F to 140°F (0°C to 60°C)
- Operating temperature range: 14°F to 140°F (-10°C to 60°C)
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap



Part Number	Part Description	Color‡	Std. Pkg. Qty. (Ft.)	Std. Ctn. Qty. (Ft.)
Riser				
PSR6004BU-UGY	Category 6A riser (CMR) 4-pair U/FTP shielded copper cable. Copper conductors are 23 AWG with HDPE insulation. Conductors are twisted in pairs, each individual twisted pair includes a metallic foil shield and is protected by a flame-retardant PVC jacket.	Blue	1000	15000
Plenum				
PSP6004BU-UGY	Category 6A plenum (CMP) 4-pair U/FTP shielded copper cable. Copper conductors are 23 AWG with FEP insulation. Conductors are twisted in pairs, each individual twisted pair includes a metallic foil shield and is protected by a low smoke, flame-retardant PVC jacket.	Blue	1000	15000

‡For standard colors other than Blue, replace BU (Blue) with WH (White), YL (Yellow), or IG (International Gray).
Order number of pieces required, in multiples of Standard Carton Quantity (Pallet).
Must be installed as part of a complete *TX6*™ *10GIG*™ Copper Cabling System in order to achieve 10GBASE-T certified performance.
In data center and telecommunication room applications, *PANDUIT* recommends that both-ends of shielded cable link be bonded if the channel is contained in the same building and any multiple serving AC power systems are intersystem bonded. For workstation applications, it is recommended that the cable link be bonded through the normal process in the telecommunication room and through the patch cord at the workstation, which provides the proper path to ground via the computer's AC power plug.

Cable Labels for *TX6*™ *10GIG*™ Shielded Copper Cable



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER***™ **LS8E Hand-Held Printer Label**	***COUGAR***™ **LS9 Hand-Held Printer Label**
PSR6004BU-UGY PSP6004BU-UGY	**S100X225YAJ**	**S100X225VATY**	**S100X225VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Mini-Com® TX6™ 10Gig™ Shielded Jack Modules

- Exceed requirements of ANSI/TIA/EIA-568-B.2-10 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class E_A channel standards
- Exceed requirements of ANSI/TIA/EIA-568-B.2-10 Category 6A and IEC 61156-5 Category 6_A component standards
- Meet draft requirements of IEEE 802.3at for PoE Plus
- Each jack is 100% tested to ensure NEXT and RL performance and is individually serialized for traceability
- Utilize patent-pending enhanced *Giga-TX™* Technology for jack terminations which optimizes performance by maintaining cable pair geometry and eliminating conductor untwist
- Fully grounded and bonded to patch panel when installed in *PANDUIT* All Metal Modular Patch Panel
- Contacts plated with 50 microinches of gold for superior performance
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability
- Optional termination tool (TGJT) reduces termination time by 25%, ideal for high volume installations
- Can be re-terminated a minimum of twenty times
- Blue termination cap designates *10Gig™* Category 6A performance and provides positive strain relief; helps control cable bend radius and securely retains wires
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded shielded twisted pair cable
- Universal termination cap is color coded for T568A and T568B wiring schemes
- Integrated strain relief with wire cap provides 360° conductive path for grounding
- .187" grounding tab provides conductive patch for grounding individual jacks
- Accept 6 and 8-position modular plugs without damage
- Can be clearly identified with optional labels and icons
- Compatible with *Mini-Com®* Modular Patch Panels, Faceplates, and Surface Mount Boxes



Part Number	Part Description	No. of Module Spaces	Std. Pkg. Qty.	Std. Ctn. Qty.
CJS6X88TGY	Category 6A, RJ45, 10 Gb/s, 8-position, 8-wire universal shielded black module with integral shield.	1	1	50
CJS6X88TGY-24	Category 6A, RJ45, 10 Gb/s, 8-position, 8-wire universal shielded black module with integral shield, bulk packaged.	1	24	240

Termination tools available on page B.82.
Shield grounding requires proper installation of shielded jack module and the use of shielded patch cords and cable.
For grounding shielded modules not installed in a shielded patch panel, see the shielded jack module grounding kit, CJSGK-XY on page M.23.
All Metal Modular Patch Panels available on page B.60.
Must be installed as part of a complete *TX6™ 10Gig™* Copper Cabling System in order to achieve 10GBASE-T certified performance.

Component Labels for *Mini-Com® TX6™ 10Gig™* Shielded Jack Module

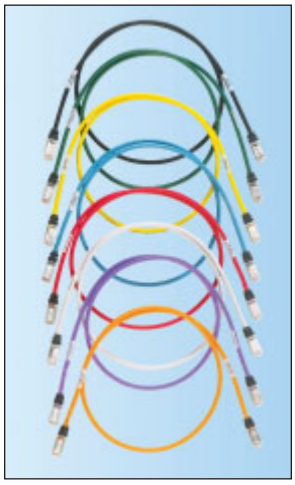


Suggested Label Solutions for TIA/EIA-606-A Compliance				
Module Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PanTher™* LS8E Hand-Held Printer Label**	***Cougar™* LS9 Hand-Held Printer Label**
CJS6X88TGY CJS6X88TGY-24	**C138X019FJJ**	**C138X019YPT**	**C138X019FJC**	**T019X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

TX6™ *10GIG*™ Shielded Patch Cords

- Exceed requirements ANSI/TIA/EIA-568-B.2-10 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class E_A channel standards
- Exceed requirements of ANSI/TIA/EIA-568-B.2-10 Category 6A and IEC 61156-5 Category 6_A component standards
- Meet draft requirements of IEEE 802.3at for PoE Plus
- Each patch cord is 100% performance tested and wired T568B
- Constructed of 26 AWG stranded shielded copper cable (nominal cable diameter is .23 inches) and *TX6*™ *PLUS* Shielded Modular Plugs for superior performance
- Cable includes overall metal shield that provides conductive path for grounding
- Plug meets all applicable ANSI/TIA-968-A requirements and exceeds IEC 60603-7 specifications
- Plug uses an integral pair manager to optimize performance and consistency by reducing untwisting of conductors within the plug
- Plug performance in center of TIA/EIA component range, ensuring interoperability and 10GBASE-T Ethernet channel performance
- Labels on patch cords provide identification of performance level, length, and quality control number
- Patented tangle free latch prevents snags and provides easy release, saving time on frequent moves, adds, and changes
- Optional Patch Cord Color Bands snap on and off individual patch cables offering endless color coding options
- Optional RJ45 Plug Lock-In Device blocks unauthorized removal of cable, IP phone, other networking equipment or critical connection



Part Number	Part Description	Length (Ft.)‡	Cable Color	Std. Pkg. Qty.	Std. Ctn. Qty.
STP6X3IG	Category 6A, 10 Gb/s STP patch cord with *TX6*™ *PLUS* Modular Plugs on each end.	3	International Gray	1	10
STP6X5IG		5	International Gray	1	10
STP6X7IG		7	International Gray	1	10
STP6X10IG		10	International Gray	1	10
STP6X14IG		14	International Gray	1	10
STP6X20IG		20	International Gray	1	10

‡For lengths 2 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet change the length designation in the part number to the desired length. For standard cable colors other than IG (International Gray) replace IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange) or VL (Violet) to end of part number. For example, the part number for a blue 15-foot patch cord is STP6X15BU.

Patch Cord Color Bands available on page B.81.
RJ45 Plug Lock-In Device available on page B.79.

Must be installed as part of a complete *TX6*™ *10GIG*™ Copper Cabling System in order to achieve 10GBASE-T certified performance.

Cable Labels for *TX6*™ *10GIG*™ Shielded Patch Cords



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER***™ **LS8E Hand-Held Printer Label**	***COUGAR***™ **LS9 Hand-Held Printer Label**
All STP6X Patch Cords	**S100X150YAJ**	**S100X150VATY**	**S100X150VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

TX6500™ Category 6 UTP Copper Cable

- Exceeds requirements of ANSI/TIA/EIA-568-B.2-1 Category 6 and ISO 11801 2nd Edition Class E channel standards
- Exceeds requirements of ANSI/TIA/EIA-568-B.2-1 and IEC 61156-5 Category 6 component standards
- Reduced attenuation maximizes the amount of signal that reaches the receiver, increasing bandwidth
- Third party tested to comply with ANSI/TIA/EIA-568-B.2-1
- Cable diameter: Riser 0.266 in. (6.7mm) nominal, Plenum 0.265 in. (6.7mm) nominal
- Installation temperature range: 32°F to 140°F (0°C to 60°C)
- Operating temperature range: 14°F to 140°F (-10°C to 60°C)
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap
- Cable supplied in an easy payout reel-in-a-box



Part Number	Part Description	Color‡	Std. Pkg. Qty. (Ft.)	Std. Ctn. Qty. (Ft.)
Riser				
PUR6504BU-UY	Enhanced high-performance Category 6 riser (CMR) 4-pair UTP copper cable. Copper conductors are 23 AWG construction with HDPE insulation. Conductors are twisted in pairs, separated by an integrated pair divider and placed in a flame-retardant PVC jacket.	Blue	1000	27000
Plenum				
PUP6504BU-UY	Enhanced high-performance Category 6 plenum (CMP) 4-pair UTP copper cable. Copper conductors are 23 AWG construction with FEP insulation. Conductors are twisted in pairs, separated by an integrated pair divider and placed in a low smoke, flame-retardant PVC jacket.	Blue	1000	27000

‡For standard colors other than Blue, replace suffix BU (Blue) with WH (White), YL (Yellow), or IG (International Gray).
Order number of pieces required, in multiples of Standard Carton Quantity (Pallet).

Cable Labels for *TX6500*™ Category 6 UTP Copper Cable

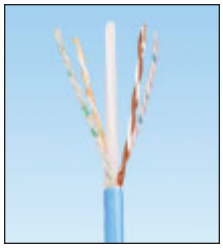


Suggested Label Solutions for TIA/EIA-606-A Compliance				
Cable Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PanTher*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand-Held Printer Label
PUR6504-UY PUP6504**-UY**	**S100X150YAJ**	**S100X150VATY**	**S100X150VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

TX6000™ Category 6 UTP Copper Cable

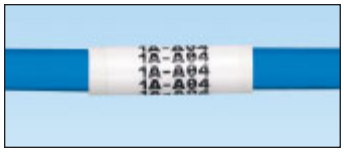
- Exceeds requirements of ANSI/TIA/EIA-568-B.2-1 Category 6 and ISO 11801 2nd Edition Class E channel standards
- Exceeds requirements of ANSI/TIA/EIA-568-B.2-1 and IEC 61156-5 Category 6 component standards
- Third party tested to comply with ANSI/TIA/EIA-568-B.2-1
- Cable diameter: Riser 0.240 (6.1mm) nominal Plenum 0.236 in. (6.0mm) nominal
- Installation temperature range: 32°F to 140°F (0°C to 60°C)
- Operating temperature range: 14°F to 140°F (-10°C to 60°C)
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap
- Cable supplied in an easy payout reel-in-a-box



Part Number	Part Description	Color‡	Std. Pkg. Qty. (Ft.)	Std. Ctn. Qty. (Ft.)
Riser				
PUR6004BU-UY	High performance Category 6 riser (CMR) 4-pair UTP copper cable. Copper conductors are 23 AWG construction with HDPE insulation. Conductors are twisted in pairs, separated by an integrated pair divider, and placed in a flame-retardant PVC jacket.	Blue	1000	27000
Plenum				
PUP6004BU-UY	High performance Category 6 plenum (CMP) 4-pair UTP copper cable. Copper conductors are 23 AWG construction with FEP insulation. Conductors are twisted in pairs, separated by an integrated pair divider, and placed in a low smoke, flame-retardant PVC jacket.	Blue	1000	27000

‡For standard colors other than Blue, replace suffix BU (Blue) with WH (White), YL (Yellow), or IG (International Gray).
Order number of pieces required, in multiples of Standard Carton Quantity (Pallet).

Cable Labels for *TX6000*™ Category 6 UTP Copper Cable



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Cable Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
PUR6004-UY** **PUP6004**-UY**	**S100X150YAJ**	**S100X150VATY**	**S100X150VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

MINI-COM® TX6™ PLUS UTP Jack Modules

- Exceed ANSI/TIA/EIA-568-B.2-1 Category 6 and ISO 11801 2nd Edition Class E standards
- Meet draft requirements of IEEE 802.3at for PoE Plus
- Each jack is 100% tested to ensure NEXT and RL performance and is individually serialized for traceability
- Utilize patent-pending enhanced *GIGA-TX™* Technology for jack terminations which optimizes performance by maintaining cable pair geometry and eliminating conductor untwist
- Contacts plated with 50 microinches of gold for superior performance
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability
- Optional termination tool (TGJT) reduces termination time by 25%, ideal for high volume installations
- Can be re-terminated a minimum of twenty times
- Off white termination cap designates Category 6 *PLUS* performance and provides positive strain relief; helps control cable bend radius and securely retains wires
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded twisted pair cable
- Universal termination cap is color coded for T568A and T568B wiring schemes
- Accept 6 and 8-position modular plugs without damage
- Can be clearly identified with optional labels and icons
- Compatible with *MINI-COM®* Modular Patch Panels, Faceplates, and Surface Mount Boxes



Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CJ688TGIW	Category 6, RJ45, 8-position, 8-wire universal module.	1	Off White	1	50
CJ688TGIW-24	Category 6, RJ45, 8-position, 8-wire universal module, bulk packaged.	1	Off White	24	240

‡For standard colors other than Off White, replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow) or VL (Violet).
Termination tools available on page B.82.
To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components.

Component Labels for *MINI-COM® TX6™ PLUS* UTP Jack Modules



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Module Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER™* LS8E Hand-Held Printer Label**	***COUGAR™* LS9 Hand-Held Printer Label**
All *TX6™ PLUS* Jack Modules	**C138X019FJJ**	**C138X019YPT**	**C138X019FJC**	**T019X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Mini-Com® Ultimate ID® TX6™ PLUS Modular Patch Panel Kits

- Supplied with black *Mini-Com® TX6™ PLUS* Jack Modules
- Include color coded termination caps
- Front access faceplates in panels
- Available with or without labels
- Include EGJT termination tool
- Can be clearly identified with the *PanTher™* LS8E or *Cougar™* LS9 Hand-Held Thermal Transfer Printers

ULTIMATE ID



UICMPPKA6G24BL



UICMPPK6G24BL

Part Number	Part Description	Labels Required	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
Mini-Com® Ultimate ID® Angled Modular Patch Panel Kit					
UICMPPKA6G24BL PATENTED	24-port UICMPPA24BL angled patch panel with 24 CJ688TGBL jack modules.	Six 4-Port	1	1	10
Mini-Com® Ultimate ID® Modular Patch Panel Kit					
UICMPPK6G24BL	24-port UICMPP24BL patch panel with 24 CJ688TGBL jack modules.	Six 4-Port	1	1	10

^One rack space = 1.75" (44.45mm).
Includes #12-24 and metric M6 screws to mount the patch panel to the rack.
Ultimate ID® Labels can be found on pages O.8 – O.14.

Mini-Com® TX6™ PLUS Modular Patch Panel Kits

- Supplied with black *Mini-Com® TX6™ PLUS* Jack Modules
- Include color coded termination caps
- Front access faceplates in panels
- Available with or without labels
- Include EGJT termination tool



CPPKA6G24WBL



CPPK6G24WBL



CPPKLA6G24WBL



CPPKL6G24WBL

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
Mini-Com® Angled Modular Patch Panel Kits – with Labels				
CPPKA6G24WBL PATENTED	24-port angled patch panel with 24 CJ688TGBL jack modules.	1	1	10
CPPK6G24WBL	24-port CPP24WBL patch panel with 24 CJ688TGBL jack modules.	1	1	10
Mini-Com® Modular Patch Panel Kits – with Labels				
CPPKLA6G24WBL PATENTED	24-port CPPLA24WBL angled patch panel with 24 CJ688TGBL jack modules.	1	1	10
CPPKL6G24WBL	24-port CPPL24WBL patch panel with 24 CJ688TGBL jack modules.	1	1	10

^One rack space = 1.75" (44.45mm).
Includes #12-24 and metric M6 screws to mount the patch panel to the rack.

DP6™ PLUS UTP Patch Panels

- Exceed ANSI/TIA/EIA-568-B.2-1 Category 6 and ISO 11801 2nd Edition Class E standards
- Meet draft requirements of IEEE 802.3at for PoE Plus
- Each port is 100% tested to ensure NEXT and RL performance and is individually serialized to support traceability
- Utilize 110 punchdown termination on back panel and includes retention cap for each port
- Each port contains a universal label that is color coded for T568A and T568B wiring schemes
- Angled versions allow for higher density applications by easily routing the patch cords to each side of the panel eliminating the need for horizontal cable management
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded twisted pair cable
- Mount to standard EIA 19" rack or 23" racks with optional extender bracket
- Write-on areas for port and panel identification
- Can be clearly identified with labels and icons
- Optional label kits (DPLK24 and DPLK48) contain adhesive label holder and labels for easy port and panel identification



DPA24688TGY



DPA48688TGY



DP12688TGY



DP24688TGY



DP48688TGY

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
	PATENTED *DP6™ PLUS* Angled Patch Panels			
DPA24688TGY	24-port, angled, Category 6, patch panel with 24 RJ45, 8-position, 8-wire ports.	1	1	10
DPA48688TGY	48-port, angled, Category 6, patch panel with 48 RJ45, 8-position, 8-wire ports.	2	1	10
	***DP6™ PLUS* Flat Patch Panels**			
DP12688TGY	12-port, Category 6, patch panel with twelve RJ45, 8-position, 8-wire ports. Mounts to 89D wall mount bracket.	—	1	10
DP24688TGY	24-port, Category 6, patch panel with 24 RJ45, 8-position, 8-wire ports.	1	1	10
DP48688TGY	48-port, Category 6, patch panel with 48 RJ45, 8-position, 8-wire ports.	2	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.
Replaceable punchdown modules available, part number DRJ688TGBL.
Termination tool (PDT110) available on page B.77.
89D wall mount bracket available on page B.59.

Component Labels for *DP6™ PLUS* UTP Patch Panels



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER™* LS8E Hand-Held Printer Label**	***COUGAR™* LS9 Hand-Held Printer Label**
All Patch Panels on this Page	**C379X030FJJ**	**C379X030YPT**	**C379X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

MINI-COM® Category 6 UTP Coupler Module

- RJ45 8-position, 8-wire female to RJ45 8-position, 8-wire female pass-through module provides fast and easy plug and play connection of 6 and 8-position RJ45 patch cords
- No tools required
- Designed to exceed performance requirements of the ANSI/TIA/EIA-568-B.2-1 Category 6 and ISO 11801 2nd Edition Class E channel standards
- 100% tested to ensure NEXT and RL performance and is individually serialized for traceability
- Contacts plated with 50 microinches of gold for superior performance
- Can be clearly identified with optional labels and icons
- Compatible with *MINI-COM*® Modular Patch Panels and Faceplates; not suitable for surface mount box applications



Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CC688IW	Category 6, RJ45, 8-position, 8-wire universal coupler module.	1	Off White	1	50

‡For other colors replace suffix IW (Off White) with BL (Black).
Acts as one connecting hardware component in channel.
TX6™ PLUS UTP Patch Cords available on page B.24.

Component Labels for *MINI-COM*® Category 6 UTP Coupler Module



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Module Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
CC688IW	**C138X019FJJ**	**C138X019YPT**	**C138X019FJC**	**T019X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Category 6 Coupler Patch Panel

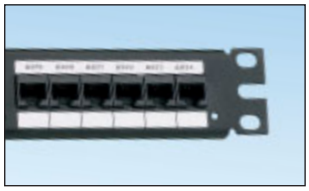
- Coupler panel ports provide fast and easy plug and play connection of 6 and 8-position RJ45 patch cords
- No tools required
- Designed to exceed performance requirements of the ANSI/TIA/EIA-568-B.2-1 Category 6 and ISO 11801 2nd Edition Class E channel standards
- Contacts plated with 50 microinches of gold for superior performance
- Can be clearly identified with optional labels and icons
- Mounts to standard EIA 19" rack or 23" racks with optional extender bracket



Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
CP24688BL	24-port, Category 6, patch panel with 24 pre-installed RJ45 Category 6 channel compliant couplers.	1	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.
Each coupler module acts as one connecting hardware component in a channel.
TX6™ PLUS UTP Patch Cords available on page B.24.

Component Labels for Category 6 Coupler Patch Panel

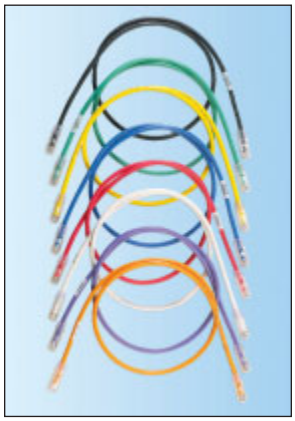


Suggested Label Solutions for TIA/EIA-606-A Compliance				
Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
CP24688BL	C252X030FJJ	C252X030YPT	C252X030FJC	T031X000FJC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

TX6™ *PLUS* UTP Patch Cords

- Exceed ANSI/TIA/EIA-568-B.2-1 Category 6 and ISO 11801 Class E standards
- Meet draft requirements of IEEE 802.3at for PoE Plus
- Each patch cord is 100% performance tested and wired T568B
- Constructed of Category 6, 24 AWG UTP stranded cable and *TX6*™ *PLUS* Modular Plugs; plug contacts plated with 50 microinches of gold for superior performance
- Plug meets all applicable ANSI/TIA-968-A requirements and exceeds IEC 60603-7 specifications
- Slender strain relief boot provides easy access in high density applications
- Plug uses an integral pair manager to optimize performance and consistency by reducing untwisting of conductors within the plug
- Perform in center of TIA/EIA component range, ensuring interoperability and excellent performance
- Labels on patch cords provide identification of performance level, length, and quality control number
- Patented tangle free latch prevents snags and provides easy release, saving time on frequent moves, adds, and changes
- Optional Patch Cord Color Bands snap on and off individual patch cables offering endless color coding options
- Optional RJ45 Plug Lock-In Device blocks unauthorized removal of cable, IP phone, other networking equipment or critical connection
- Third party tested for Category 6 component compliance



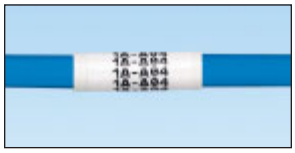
Part Number	Part Description	Length (Ft.)‡	Cable Color	Std. Pkg. Qty.	Std. Ctn. Qty.
UTPSP3Y	Category 6, UTP patch cord with *TX6*™ *PLUS* Modular Plugs on each end.	3	Off White	1	10
UTPSP5Y		5	Off White	1	10
UTPSP7Y		7	Off White	1	10
UTPSP10Y		10	Off White	1	10
UTPSP14Y		14	Off White	1	10
UTPSP20Y		20	Off White	1	10

‡For lengths 1 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange) or VL (Violet) before Y at the end of the part number. For example, the part number for a blue 15-foot patch cord is UTPSP15BUY.

Patch Cord Color Bands available on page B.81.
RJ45 Plug Lock-In Device available on page B.79.

To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components.

Cable Labels for *TX6*™ *PLUS* UTP Patch Cords



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PanTher***™ **LS8E Hand-Held Printer Label**	***Cougar***™ **LS9 Hand-Held Printer Label**
All Patch Cords	**S100X150YAJ**	**S100X150VATY**	**S100X150VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

TX6™ PLUS UTP Modular Plug

- Meets all applicable ANSI/TIA-968-A requirements and exceeds IEC 60603-7 specifications
- Used in UTPSP series patch cords providing Category 6 performance
- Patented tangle free latch prevents snags and provides easy release saving time on frequent moves, adds, and changes
- Slender strain relief boot provides easy access in high density applications
- Integral pair manager optimizes performance and consistency by reducing untwist at plug
- Contacts plated with 50 microinches of gold
- Terminates 24 AWG, 100 ohm, stranded or solid conductor with max. conductor insulation diameter of .041"



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
SP688-C	8-position, 8-wire modular plug.	100	1000

To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components.
MPT5-8A crimp tool required for termination, available on page B.83.

c UL us *MINI-COM® TX6™ PLUS* Shielded Jack Modules

- Exceed ANSI/TIA/EIA-568-B.2-1 Category 6 and ISO 11801 2nd Edition Class E standards
- Meet draft requirements of IEEE 802.3at for PoE Plus
- Each jack is 100% tested to ensure NEXT and RL performance and is individually serialized for traceability
- Utilize patent-pending enhanced *GIGA-TX™* Technology for jack terminations which optimizes performance by maintaining cable pair geometry and eliminating conductor untwist
- Fully grounded and bonded to patch panel when installed in *PANDUIT* All Metal Modular Patch Panel
- Contacts plated with 50 microinches of gold for superior performance
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability
- Optional termination tool (TGJT) reduces termination time by 25%, ideal for high volume installations
- Can be re-terminated a minimum of twenty times
- Off white termination cap designates Category 6 performance and provides positive strain relief; helps control cable bend radius and securely retains wires
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded shielded twisted pair cable
- Universal termination cap is color coded for T568A and T568B wiring schemes
- Integrated strain relief with wire cap provides 360° conductive path for grounding
- .187" tab provides conductive path for grounding individual jacks
- Accept 6 and 8-position modular plugs without damage
- Can be clearly identified with optional labels and icons
- Compatible with *MINI-COM®* Modular Patch Panels, Faceplates, and Surface Mount Boxes



Part Number	Part Description	No. of Module Spaces	Std. Pkg. Qty.	Std. Ctn. Qty.
CJS688TGY	Category 6, RJ45, 8-position, 8-wire universal shielded black module with integral shield.	1	1	50
CJS688TGY-24	Category 6, RJ45, 8-position, 8-wire universal shielded black module with integral shield, bulk packaged.	1	24	240

Termination tools available on page B.82.
Shield grounding requires proper installation of shielded jack module and the use of shielded patch cords and cable.
All Metal Modular Patch Panels available on page B.60.
For grounding shielded modules not installed in a shielded patch panel, see the shielded jack module grounding kit, CJSGK-XY on page M.23.
To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components.

Component Labels for *MINI-COM® TX6™ PLUS* Shielded Jack Modules

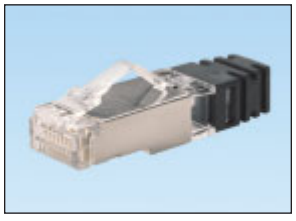


Suggested Label Solutions for TIA/EIA-606-A Compliance				
Module Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER™* LS8E Hand-Held Printer Label	*COUGAR™* LS9 Hand-Held Printer Label
All *TX6™ PLUS* Jack Modules	**C138X019FJJ**	**C138X019YPT**	**C138X019FJC**	**T019X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

TX6™ PLUS Shielded Modular Plug

- Meets all applicable ANSI/TIA-968-A requirements and exceeds IEC 60603-7 specifications
- Used in STP6X series patch cords providing Category 6 performance
- Patented tangle free latch prevents snags and provides easy release saving time on frequent moves, adds, and changes
- Slender strain relief boot provides easy access in high density applications
- Integral pair manager optimizes performance and consistency by reducing untwist at plug
- Contacts plated with 50 microinches of gold
- Shielded plug housing provides conductive path for grounding
- Terminates 24 – 26 AWG, 100 ohm, stranded or solid shielded cable with max. conductor insulation diameter of .040"



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
SPS688-C	8-position, 8-wire shielded modular plug.	100	1000

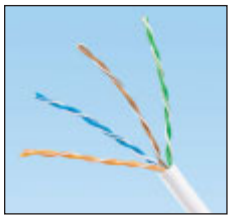
To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components. MPT5-8A crimp tool required for termination. Termination tool available on page B.83.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

TX5500™ Category 5e UTP Copper Cable

- Exceeds requirements of ANSI/TIA/EIA-568-B.2 Category 5e and ISO 11801 2nd Edition Class D channel standards
- Exceeds requirements of ANSI/TIA/EIA-568-B.2 and IEC 61156-5 Category 5e component standards
- Cable diameter: Riser 0.225 in. (5.7mm) nominal, Plenum 0.193 in. (4.9mm) nominal
- Installation temperature range: 32°F to 122°F (0°C to 50°C)
- Operating temperature range: 14°F to 140°F (-10°C to 60°C)
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap
- Cable supplied in an easy payout box



Part Number	Part Description	Color‡	Std. Pkg. Qty. (Ft.)	Std. Ctn. Qty. (Ft.)
Riser				
PUR5504BU-UY	Category 5e riser (CMR) 4-pair UTP copper cable. Copper conductors are 24 AWG construction with HDPE insulation. Conductors are twisted in pairs and placed in a flame-retardant PVC jacket.	Blue	1000	39000
Plenum				
PUP5504BU-UY	Category 5e plenum (CMP) 4-pair UTP copper cable. Copper conductors are 24 AWG construction with FEP insulation. Conductors are twisted in pairs and placed in a low smoke, flame-retardant PVC jacket.	Blue	1000	39000

‡For standard colors other than Blue, replace BU (Blue) with WH (White), YL (Yellow), or IG (International Gray). Order number of pieces required, in multiples of Standard Carton Quantity (Pallet).

Cable Labels for *TX5500*™ Category 5e UTP Cable



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Cable Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
PUR5504-UY PUP5504**-UY**	**S100X150YAJ**	**S100X150VATY**	**S100X150VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

MINI-COM® TX5e™ UTP Jack Modules

- Exceed ANSI/TIA/EIA-568-B.2 Category 5e and ISO 11801 2nd Edition Class D standards
- Meet draft requirements of IEEE 802.3at for PoE Plus
- Each jack is 100% tested to ensure NEXT and RL performance and is individually serialized for traceability
- Utilize patent-pending enhanced *GIGA-TX™* Technology for jack terminations which optimizes performance by maintaining cable pair geometry and eliminating conductor untwist
- Contacts plated with 50 microinches of gold for superior performance
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability
- Optional termination tool (TGJT) reduces termination time by 25%, ideal for high volume installations
- Can be re-terminated a minimum of twenty times
- Red termination cap designates Category 5e performance and provides positive strain relief; helps control cable bend radius and securely retains wires
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded twisted pair cable
- Universal termination cap is color coded for T568A and T568B wiring schemes
- Accept 6 and 8-position modular plugs without damage
- Can be clearly identified with optional labels and icons
- Compatible with *MINI-COM®* Modular Patch Panels, Faceplates, and Surface Mount Boxes



Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CJ5E88TGIW	Category 5e, RJ45, 8-position, 8-wire universal module.	1	Off White	1	50
CJ5E88TGIW-24	Category 5e, RJ45, 8-position, 8-wire universal module, bulk packaged.	1	Off White	24	240

‡For standard colors other than Off White, replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow) or VL (Violet).
Termination tools available on page B.82.

Component Labels for *MINI-COM® TX5e™* UTP Jack Modules



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Module Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER™* LS8E Hand-Held Printer Label**	***COUGAR™* LS9 Hand-Held Printer Label**
All *TX5e™* Jack Modules	**C138X019FJJ**	**C138X019YPT**	**C138X019FJC**	**T019X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Mini-Com® *TX5e*™ Corrosive Resistant UTP Jack Module

NEW!

- Injected gel and polymer material reduce area of exposed electrical contacts providing improved long term performance in corrosive environments
- Exceeds ANSI/TIA/EIA-568-B.2 Category 5e and ISO 11801 2nd Edition Class D standards
- Meets draft requirements of IEEE 802.3at for PoE Plus
- Each jack is 100% tested to ensure NEXT and RL performance and is individually serialized for traceability
- Utilizes patent-pending enhanced *Giga-TX*™ Technology for jack terminations which optimizes performance by maintaining cable pair geometry and eliminating conductor untwist
- Contacts plated with 50 microinches of gold for superior performance
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability
- Optional termination tool (TGJT) reduces termination time by 25%, ideal for high volume installations
- Can be re-terminated a minimum of twenty times
- Red termination cap designates Category 5e performance and provides positive strain relief; helps control cable bend radius and securely retains wires
- Terminates 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded twisted pair cable
- Universal termination cap is color coded for T568A and T568B wiring schemes
- Accepts 6 and 8-position modular plugs without damage
- Can be clearly identified with optional labels and icons
- Compatible with *Mini-Com*® Modular Patch Panels, Faceplates, and Surface Mount Boxes



Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CJE5E88TGIW	Corrosive resistant, Category 5e, RJ45, 8-position, 8-wire universal module.	1	Off White	1	50

‡For standard other colors other than Off White, replace suffix IW (Off White) with WH (White), BL (Black), RD (Red) or BU (Blue).
Termination tools available on page B.82.

Component Labels for *Mini-Com*® *TX5e*™ Corrosive Resistant UTP Jack Module



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*Panther*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand-Held Printer Label
CJE5E88TG**	C138X019FJJ	C138X019YPT	C138X019FJC	T019X000FJC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

DP5e™ UTP Patch Panels

- Exceed ANSI/TIA/EIA-568-B.2 Category 5e and ISO 11801 Class D standards
- Meet draft requirements of IEEE 802.3at for PoE Plus
- Each port is 100% tested to ensure NEXT and RL performance and is individually serialized to support traceability
- Utilize 110 termination on back panel and includes retention cap for each port
- Each port contains a universal label that is color coded for T568A and T568B wiring schemes
- Contacts plated with 50 microinches of gold for superior performance
- Angled versions allow for higher density installations by easily routing the patch cords to each side of the panel eliminating the need for horizontal cable management
- Terminate 4 pair, 22 – 26 AWG, 100 ohm, solid or stranded twisted pair cable
- Mount to standard EIA 19" rack or 23" racks with optional extender bracket
- Write-on areas for port and panel identification
- Can be clearly identified with labels and icons
- Optional label kits (DPLK24 and DPLK48) contain adhesive label holder and labels for easy port and panel identification



DPA245E88TGY



DPA485E88TGY



DP125E88TGY



DP245E88TGY



DP485E88TGY

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
	PATENTED ***DP5e***™ **Angled Patch Panels**			
DPA245E88TGY	24-port, Category 5e, patch panel with 24 RJ45, 8-position, 8-wire ports.	1	1	10
DPA485E88TGY	48-port, Category 5e, patch panel with 48 RJ45, 8-position, 8-wire ports.	2	1	10
	DP5e™ **Flat Patch Panels**			
DP125E88TGY	12-port, Category 5e, patch panel with twelve RJ45, 8-position, 8-wire ports. Mounts to 89D wall mount bracket.	—	1	10
DP245E88TGY	24-port, Category 5e, patch panel with 24 RJ45, 8-position, 8-wire ports.	1	1	10
DP485E88TGY	48-port, Category 5e, patch panel with 48 RJ45, 8-position, 8-wire ports.	2	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.
Replaceable punchdown modules available, part number DRJ5E88TGBL.
Termination tool (PDT110) available on page B.77.
89D wall mount bracket available on page B.59.

Component Labels for *DP5e*™ UTP Patch Panels



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PanTher***™ **LS8E Hand-Held Printer Label**	***Cougar***™ **LS9 Hand-Held Printer Label**
All Patch Panels on this Page	**C379X030FJJ**	**C379X030YPT**	**C379X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

MINI-COM® Category 5e UTP Coupler Module

- RJ45 8-position, 8-wire female to RJ45 8-position, 8-wire female pass-through module provides fast and easy plug and play connection of 6 and 8-position RJ45 patch cords
- No tools required
- Designed to exceed performance requirements of the TIA/EIA-568-B.2 Category 5e and ISO 11801 2nd Edition Class D channel standards
- 100% tested to ensure NEXT and RL performance and is individually serialized for traceability
- Contacts plated with 50 microinches of gold for superior performance
- Can be clearly identified with optional labels and icons
- Compatible with *MINI-COM*® Modular Patch Panels and Faceplates; not suitable for surface mount box applications



Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CC5E88IW	Category 5e, RJ45, 8-position, 8-wire universal coupler module.	1	Off White	1	50

‡For other colors replace suffix IW (Off White) with BL (Black).
Acts as one connecting hardware component in channel.
TX5e™ UTP Patch Cords available on page B.33.

Component Labels for *MINI-COM*® Category 5e UTP Coupler Module



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
CC5E88IW	C138X019FJJ	C138X019YPT	C138X019FJC	T019X000FJC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Category 5e Coupler Patch Panel

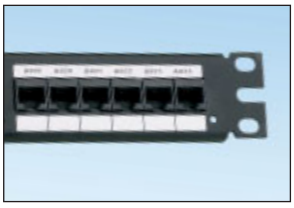
- Coupler panel ports provide fast and easy plug and play connection of 6 and 8-position RJ45 patch cords
- No tools required
- Designed to exceed TIA/EIA-568-B.2 Category 5e and all ISO 11801 2nd Edition Class D channel standard requirements at swept frequencies up to 100 MHz
- Contacts plated with 50 microinches of gold for superior performance
- Can be clearly identified with optional labels and icons
- Mounts to standard EIA 19" rack or 23" racks with optional extender bracket



Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
CP245E88BLY	24-port, Category 5e, patch panel with 24 pre-installed RJ45 Category 5e channel compliant couplers.	1	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.
Each coupler module acts as one connecting hardware component in a channel.
TX5e™ UTP Patch Cords available on page B.33.

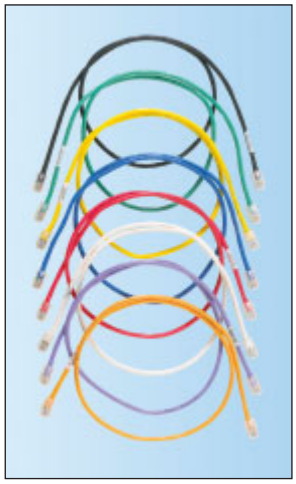
Component Labels for Category 5e Coupler Patch Panel



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
CP245E88BLY	**C252X030FJJ**	**C252X030YPT**	**C252X030FJC**	**T031X000FJC-BK**

TX5e™ UTP Patch Cords

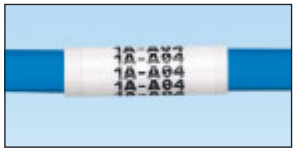
- Exceed ANSI/TIA/EIA-568-B.2 Category 5e and ISO11801 Class D standards
- Meet draft requirements of IEEE 802.3at for PoE Plus
- Each patch cord is 100% performance tested and wired to T568A
- Constructed of Category 5e, 24 AWG UTP stranded cable and *PAN-PLUG*® Modular Plugs; plug contacts plated with 50 microinches of gold for superior performance
- Plug meets all applicable ANSI/TIA-968-A requirements and exceeds IEC 60603-7 specifications
- Patented tangle free latch prevents snags and provides easy release, saving time on frequent moves, adds, and changes
- Labels on patch cords provide identification of performance level, length, and quality control number
- Optional Patch Cord Color Bands snap on and off individual patch cables offering endless color coding options
- Optional RJ45 Plug Lock-In Device blocks unauthorized removal of cable, IP phone, other networking equipment or critical connection
- Third party tested to Category 5e component compliance



Part Number	Part Description	Length (Ft.)	Cable Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
UTPCH3Y	Category 5e, UTP patch cord with *PAN-PLUG*™ Modular Plugs on each end.	3	Off White	1	10
UTPCH5Y		5	Off White	1	10
UTPCH7Y		7	Off White	1	10
UTPCH10Y		10	Off White	1	10
UTPCH14Y		14	Off White	1	10
UTPCH20Y		20	Off White	1	10

‡For lengths 1 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange) or VL (Violet) before the Y in the part number.
For example, the part number for a blue 15-foot patch cord is UTPCH15BUY.
Patch Cord Color Bands available on page B.81.
RJ45 Plug Lock-In Device available on page B.79.

Cable Labels for *TX5e*™ UTP Patch Cords



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER***™ **LS8E Hand-Held Printer Label**	***COUGAR***™ **LS9 Hand-Held Printer Label**
All Patch Cords	**S100X150YAJ**	**S100X150VATY**	**S100X150VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

PAN-PLUG® Category 5e UTP Modular Plugs

- Meet all applicable ANSI/TIA-968-A requirements and exceeds IEC 60603-7 specifications
- Used in UTPCH series patch cords providing Category 5e performance
- Patented tangle free plug latch prevents snags and provides easy release saving time on frequent moves, adds, and changes
- Simplified termination requires no loading bar; guide ramp facilitates easy conductor insertion and termination
- Contacts plated with 50 microinches of gold
- Terminate 24 AWG, 100 ohm, stranded or solid conductor with max. conductor insulation diameter of .040"



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
MP588-L	8-position, 8-wire modular plug.	50	250
MP588-C	8-position, 8-wire modular plug.	100	1000
MP588-M	8-position, 8-wire modular plug.	1000	5000

MPT5-8A crimp tool required for termination, available on page B.83.

c UL us *MINI-COM® TX5e™* Shielded Jack Modules

- Exceed ANSI/TIA/EIA-568-B.2 Category 5e and ISO 11801 2nd Edition Class D standards
- Meet draft requirements of IEEE 802.3at for PoE Plus
- Each jack is 100% tested to ensure NEXT and RL performance and is individually serialized for traceability
- Utilize patent-pending enhanced *GIGA-TX™* Technology for jack terminations which optimizes performance by maintaining cable pair geometry and eliminating conductor untwist
- Fully grounded and bonded to patch panel when installed in *PANDUIT* All Metal Modular Patch Panel
- Contacts plated with 50 microinches of gold for superior performance
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability
- Optional termination tool (TGJT) reduces termination time by 25%, ideal for high volume installations
- Can be re-terminated a minimum of twenty times
- Red termination cap designates Category 5e performance and provides positive strain relief; helps control cable bend radius and securely retains wires
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded shielded twisted pair cable
- Universal termination cap is color coded for T568A and T568B wiring schemes
- Integrated strain relief with wire cap provides 360° conductive path for grounding
- .187" tab provides conductive path for grounding individual jacks
- Accept 6 and 8-position modular plugs without damage
- Can be clearly identified with optional labels and icons
- Compatible with *MINI-COM®* Modular Patch Panels, Faceplates, and Surface Mount Boxes



Part Number	Part Description	No. of Module Spaces	Std. Pkg. Qty.	Std. Ctn. Qty.
CJS5E88TGY	Category 5e, RJ45, 8-position, 8-wire universal shielded black module with integrated shield.	1	1	50
CJS5E88TGY-24	Category 5e, RJ45, 8-position, 8-wire universal shielded black module with integrated shield, bulk packaged.	1	24	240

Termination tools available on page B.82.
Shield grounding requires proper installation of shielded jack module and the use of shielded patch cords and cable.
All Metal Modular Patch Panels available on page B.60.
For grounding shielded modules not installed in a shielded patch panel, see the shielded jack module grounding kit, CJSGK-XY on page M.23.

Component Labels for *MINI-COM® TX5e™* Shielded Jack Modules

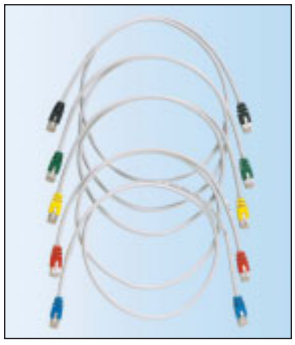


Suggested Label Solutions for TIA/EIA-606-A Compliance				
Module Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER™* LS8E Hand-Held Printer Label**	***COUGAR™* LS9 Hand-Held Printer Label**
All *TX5e™* Shielded Jack Modules	**C138X019FJJ**	**C138X019YPT**	**C138X019FJC**	**T019X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

c UL us *TX5e*™ Shielded Patch Cords

- Exceed ANSI/TIA/EIA-568-B.2 Category 5e and ISO11801 Class D standards
- Meet draft requirements of IEEE 802.3at for PoE Plus
- Each patch cord is 100% performance tested and wired T568A
- Constructed of Category 5e, 26 AWG, STP stranded cable and *PAN-PLUG*® Modular Plugs; plug contacts plated with 50 microinches of gold for superior performance
- Plug meets all applicable ANSI/TIA-968-A requirements and exceeds IEC 60603-7 specifications
- Patented tangle free latch prevents snags and provides easy release, saving time on frequent moves, adds, and changes
- Labels on patch cords provide identification of performance level, length, and quality control number
- Optional Patch Cord Color Bands snap on and off individual patch cables offering endless color coding options
- Optional RJ45 Plug Lock-In Device blocks unauthorized removal of cable, IP phone, other networking equipment or critical connection

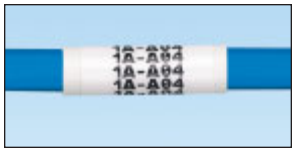


Part Number	Part Description	Length (m)‡	Boot Color	Cable Color	Std. Pkg. Qty.	Std. Ctn. Qty.
STPCH1MBBL	Category 5e, shielded patch cord with *PAN-PLUG*® Modular Plugs on each end.	1	Black	International Gray	1	10
STPCH2MBBL		2	Black	International Gray	1	10
STPCH3MBBL		3	Black	International Gray	1	10
STPCH5MBBL		5	Black	International Gray	1	10
STPCH7MBBL		7	Black	International Gray	1	10
STPCH10MBBL		10	Black	International Gray	1	10

‡For lengths 1 to 10 meters (increments of one meter) and 0.5, 1.5, 2.5, 15, 20, 25, 30, 35, 40 meters change the length designation in the part number to the desired length. For boot colors other than Black, replace suffix BL (Black) with BU (Blue), GR (Green), RD (Red) or YL (Yellow). For example, the part number for a 15 meter patch cord with blue boots is STPCH15MBBU.

Patch Cord Color Bands available on page B.81.
RJ45 Plug Lock-In Device available on page B.79.

Cable Labels for *TX5e*™ Shielded Patch Cords



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
All Patch Cords	**S100X150YAJ**	**S100X150VATY**	**S100X150VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on page O.1 – O.18.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

PAN-PLUG® Category 5e Shielded Modular Plug

- Meets all applicable ANSI/TIA-968-A requirements and exceeds IEC 60603-7 specifications
- Used in STPCH series patch cords providing Category 5e performance
- Patented tangle free latch prevents snags and provides easy release saving time on frequent moves, adds, and changes
- Simplified termination requires no loading bar, guide ramp facilitates easy conductor insertion and termination
- Contacts plated with 50 microinches of gold
- Shielded plug housing provides conductive path for grounding
- Terminates 24 – 26 AWG 100 ohm stranded or solid shielded cable with max. conductor insulation diameter of .040"



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
MPS588-C	8-position, 8-wire shielded modular plug.	100	1000

To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 5e components. MPT5-8A crimp tool required for termination, available on page B.83.

TX5500™ Category 5e 25-Pair UTP Copper Cable

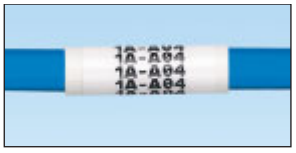
- Exceeds requirements of ANSI/TIA/EIA-568-B.2 Category 5e and ISO 11801 2nd Edition Class D channel standards
- Exceeds requirements of ANSI/TIA/EIA-568-B.2 and IEC 61156-5 Category 5e component standards
- Cable diameter: Riser 0.511 in. (12.9mm) nominal, Plenum 0.455 in. (11.6mm) nominal
- Installation temperature range: Riser 32°F to 122°F (0°C to 50°C), Plenum -58°F to 392°F (-50°C to 200°C)
- Operating temperature range: Riser 14°F to 140°F (-10°C to 60°C), Plenum -58°F to 392°F (-50°C to 200°C)
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap



Part Number	Part Description	Color‡	Std. Pkg. Qty. (Ft.)	Std. Ctn. Qty. (Ft.)
Riser				
PUR5525IG-UY	Category 5e riser (CMR) 25-pair UTP copper cable. Copper conductors are 24 AWG construction with FEP insulation. Conductors are twisted in pairs and placed in a flame-retardant PVC jacket.	International Gray	1000	3000
Plenum				
PUP5525IG-UY	Category 5e plenum (CMP) 25-pair UTP copper cable. Copper conductors are 24 AWG construction with FEP insulation. Conductors are twisted in pairs and placed in a low smoke, flame-retardant PVC jacket.	International Gray	1000	3000

‡For standard colors other than IG (International Gray), replace IG with BU (Blue) or WH (White).
Order number of pieces required, in multiples of Standard Carton Quantity (Pallet).

Component Labels for *TX5500*™ Category 5e 25-Pair UTP Copper Cable



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Module Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER***™ **LS8E Hand-Held Printer Label**	***COUGAR***™ **LS9 Hand-Held Printer Label**
PUP5525IG-UY PUR5525IG-UY	**S100X400YAJ**	**S100X400VATY**	**S100X400VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

DATA-PATCH™ 10/100BASE-T Patch Panels

- Category 5e rated in the channel when used with Category 5e 25-pair cable assemblies
- Consist of female telco 50 pin/25 pair connectors with hook and loop fasteners wired per RJ21 industry standard for backward compatibility
- Each port is wired for 10/100BASE-T Ethernet utilizing pins 1, 2 and 3, 6
- Does not require use of a punchdown tool
- Mount to standard EIA 19" rack or 23" racks with optional extender bracket
- Write-on areas for port and panel identification
- Optional label kits (DPLK24 and DPLK48) contain adhesive label holder and labels for easy port and panel identification
- Can be clearly identified with labels and icons



DP24584TV25Y



DP48584TV25Y

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
DP24584TV25Y	24-port, Category 5e, patch panel with 24 RJ45 ports wired to two RJ21 Telco connectors.	1	1	10
DP48584TV25Y	48-port, Category 5e, patch panel with 48 RJ45 ports wired to four RJ21 Telco connectors.	2	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.
For use with *DATA-PATCH*™ 10/100BASE-T Cable Assemblies on page B.40.

Component Labels for *DATA-PATCH*™ 10/100BASE-T Patch Panels



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
DP24584TV25Y DP48584TV25Y	**C379X030FJJ**	**C379X030YPT**	**C379X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

DATA-PATCH™ 10/100BASE-T Cable Assemblies

- Category 5e rated 25-pair connectorized cable assemblies are enhanced performance patch cords featuring 25-pair Category 5e solid cable with Category 5e 25-pair RJ21 plug on either end
- System also includes Category 5e rated 25-pair hydra with Category 5e 25-pair male connectors on one end and 12 *PAN-PLUG*® Modular Plugs terminated to the 10/100BASE-T Ethernet pins (1, 2, 3, and 6) on the other end
- 100% tested for wiring sequence and continuity



UTPCH825Y**



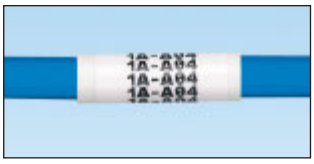
UTPCH812PP25Y

Part Number	Part Description	Length (Ft.)‡	Std. Pkg. Qty.	Std. Ctn. Qty.
UTPCH8SR25Y	RJ21 plug to RJ21 plug, straight, 110° right orientation.	8	1	10
UTPCH8SL25Y	RJ21 plug to RJ21 plug, straight, 110° left orientation.	8	1	10
UTPCH8L25Y	RJ21 plug to RJ21 plug, both 110° left orientation.	8	1	10
UTPCH8R25Y	RJ21 plug to RJ21 plug, both 110° right orientation.	8	1	10
UTPCH8LR25Y	RJ21 plug to RJ21 plug, 110° left, 110° right orientation.	8	1	10
UTPCH812PP25Y	Twelve *PAN-PLUG*® Modular Plugs, straight.	8	1	10

‡For lengths 6, 10, 15 and 20 replace 8 in part number for desired length. For example, the part number for a 15 foot straight and right 25-pair connectorized cable assembly is UTPCH15SR25Y.

DATA-PATCH™ 10/100BASE-T Patch Panels available on page B.39.

Cable Labels for *DATA-PATCH*™ 10/100BASE-T Cable Assemblies



Suggested Label Solutions for TIA/EIA 606-A Compliance				
Patch Panel Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER***™ **LS8E Hand-Held Printer Label**	***COUGAR***™ **LS9 Hand-Held Printer Label**
All Cable Assemblies	**S100X400YAJ**	**S100X400VATY**	**S100X400VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

DATA-PATCH™ Category 5e RJ21 to RJ45 Patch Panel

- Designed to exceed TIA/EIA-568-B.2 Category 5e and ISO 11801 2nd Edition Class D standards
- Consist of female telco 50-pin/25-pair connectors with hook and loop fasteners wired per RJ21 industry standard for backward compatibility
- Each RJ45 port is fully wired for 10/100/1000BASE-T Ethernet performance utilizing all 8 pins
- Does not require use of a punchdown tool
- Mounts to standard EIA 19" rack or 23" racks with optional extender bracket
- Write-on areas for port and panel identification
- Can be clearly identified with labels and icons
- Optional label kits (DPLK24 and DPLK48) contain adhesive label holder and labels for easy port and panel identification



DPA245E88TV25



DPA485E88TV25



DP245E88TV25

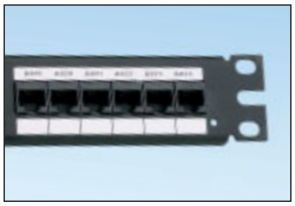


DP485E88TV25

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
***DATA-PATCH*™ 10/100/1000BASE-T RJ21 to RJ45 Angled Patch Panels**				
DPA245E88TV25	24-port angled, Category 5e, RJ45, 8-pin, fully wired to 4-port RJ21 connector panel.	1	1	10
DPA485E88TV25	48-port angled, Category 5e, RJ45, 8-pin, fully wired to 8-port RJ21 connector panel.	2	1	10
***DATA-PATCH*™ 10/100/1000BASE-T RJ21 to RJ45 Flat Patch Panels**				
DP245E88TV25	24-port, Category 5e, RJ45, 8-pin, fully wired to 4-port RJ21 connector panel.	1	1	10
DP485E88TV25	48-port, Category 5e, RJ45, 8-pin, fully wired to 4-port RJ21 connector panel.	2	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.
DATA-PATCH™ 10/100/1000BASE-T Cable Assemblies available on page B.42.

Component Labels for *DATA-PATCH*™ Category 5e RJ21 to RJ45 Patch Panel



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
DPA245E88TV25 DPA485E88TV25 DP245E88TV25 DP485E88TV25	**C379X030FJJ**	**C379X030YPT**	**C379X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

DATA-PATCH™ 10/100/1000BASE-T Cable Assemblies

- Category 5e rated 25-pair connectorized cable assemblies are enhanced performance patch cords featuring 25-pair Category 5e solid cable with Category 5e, 25-pair RJ21 plugs on either end
- System also includes Category 5e rated 25-pair hydra with Category 5e, 25-pair male connectors on one end and six PAN-PLUG® Modular Plugs on the other end
- System also include Category 5e rated RJ21 to MRJ21 with Category 5e 25-pair male connector on one end and MRJ21 male connector on the other
- All cords are 100% tested for wiring sequence and continuity



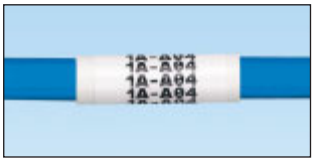
UTPCH8**25Y

Part Number	Part Description	Length (Ft.)‡	Std. Pkg. Qty.	Std. Ctn. Qty.
UTPCH8SR25Y	RJ21 plug to RJ21 plug, straight, 110° right orientation.	8	1	10
UTPCH8SL25Y	RJ21 plug to RJ21 plug, straight, 110° left orientation.	8	1	10
UTPCH8L25Y	RJ21 plug to RJ21 plug, both 110° left orientation.	8	1	10
UTPCH8R25Y	RJ21 plug to RJ21 plug, both 110° right orientation.	8	1	10
UTPCH8LR25Y	RJ21 plug to RJ21 plug, 110° left, 110° right orientation.	8	1	10
UTPCH86PP25	RJ21 plug to six PAN-PLUG® Modular Plugs, straight.	8	1	10
UTPCH8SMRJ25	MRJ21 male connector to RJ21 connector, straight.	8	1	10

‡For lengths 6, 10, 15 and 20 replace 8 in part number for desired length. For example, the part number for a 15 foot straight and right 25-pair connectorized cable assembly is UTPCH15SR25Y.

DATA-PATCH™ Category 5e RJ21 to RJ45 Patch Panels available on page B.41.

Cable Labels for DATA-PATCH™ 10/100/1000BASE-T Cable Assemblies



Suggested Label Solutions for TIA/EIA 606-A Compliance				
Cable Assemblies Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	**PANTHER™ LS8E Hand-Held Printer Label**	**COUGAR™ LS9 Hand-Held Printer Label**
All UTPCH8 Cable Assemblies on this Page	**S100X400YAJ**	**S100X400VATY**	**S100X400VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

RJ45 – HD68 SCSI Angled Patch Panel and Patch Panel Kit

- Used for console management of selected switching equipment
- Each port 100% electrically tested
- Angled patch panel is available individually or kitted with four cable assemblies each 3' long with 68-pin DB68 male plugs on both ends
- Female 68-pin sockets on panel meet ANSI T 10.1302D SCSI Parallel Interface-3 (SPI-3) standard
- Mount to standard EIA 19" rack or 23" racks with optional extender bracket
- Pre-printed numbers above each port for easy identification



TPK1A32R88S68

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
TPA32R88S68	32-port angled patch panel with 32 RJ45 ports wired to four 68-pin SCSI connectors.	1	1	10
TPK1A32R88S68	32-port angled patch panel with 32 RJ45 ports wired to four 68-pin SCSI connectors kitted with four cable assemblies each 3' long with 68-pin DB68 male plugs on both ends.	1	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12 – 24 mounting screws included.

Component Labels for RJ45 – HD68 SCSI Angled Patch Panel and Patch Panel Kit



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
TPA32R88S68 TPK1A32R88S68	**C379X030FJJ**	**C379X030YPT**	**C379X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

MINI-COM® *MINI-JACK*™ Category 3 UTP Jack Modules

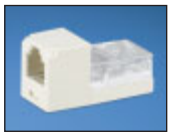
LISTED CERTIFIED

- Patented lead frame termination style ensures twists are maintained to within 1/2"
- No punchdown tool required, optional termination tool (CJT-X) ensures conductors are fully terminated
- Termination cap provides excellent strain relief; helps control cable bend radius and securely retains wires
- Clear, removable termination cap provides easy troubleshooting
- Terminate 4-pair 24 and 22 AWG 100 ohm solid unshielded twisted pair cable
- Accept 6 and 8-position modular plugs without damage
- White colored module base designates Category 3 performance
- Can be clearly identified with optional labels and icons
- Compatible with *MINI-COM*® Modular Patch Panels, Faceplates, and Surface Mount Boxes


CJ88**Y


CJ66U**Y


CJ66**Y


CJ64**Y

Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CJ88IWY	Category 3, 8-position, 8-wire universal module.	1	Off White	1	50
CJ66UIWY	Category 3, 6-position, 6-wire USOC module.	1	Off White	1	50
CJ66IWY	Category 3, 6-position, 6-wire universal module.	1	Off White	1	50
CJ64IWY	Category 3, 6-position, 4-wire universal module.	1	Off White	1	50

‡For standard colors other than Off White, replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray), YL (Yellow) or BL (Black).
Termination tools available on page B.82.

Component Labels for *MINI-COM*® *MINI-JACK*™ Category 3 UTP Jack Modules



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Module Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
All UTP Category 3 Jack Modules	**C138X019FJJ**	**C138X019YPT**	**C138X019FJC**	**T019X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

MINI-COM® BAS Connector Module

- Standard field bus connector terminates up to three 18 – 22 AWG connectors or shielded/unshielded cable
- No punchdown tool required, terminates with screwdriver
- Common declaration point for BAS networks and low voltage power for building systems
- Compatible with *MINI-COM*® Modular Patch Panels, Faceplates, and Surface Mount Boxes



Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMBRS485OR	Module supplied with 22 AWG min/18 AWG max connector.	2	Orange	1	10

‡For other colors replace suffix OR (Orange) with BL (Black), BU (Blue), GR (Green), RD (Red) or YL (Yellow).

MINI-COM® Blank Module

- Secures opening to prevent tampering
- Compatible with *MINI-COM*® Modular Patch Panels, Faceplates, and Surface Mount Boxes



Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMBIW-X	1-position, reserves space for future use.	1	Off White	10	50

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

MINI-COM® F-Type Module

- Typical use in CATV applications
- Compatible with *MINI-COM*® Modular Patch Panels, Faceplates, and Surface Mount Boxes
- Accepts RG-6 and RG-59 coaxial cable



Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMFIW	Module supplied with 75 ohm industry standard F-type coupler.	1	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

MINI-COM® Self-Terminating F-Type Module

- Eliminates need for termination cap on connector
- Automatically puts 75 ohm load on cable run when cable is disconnected
- Reduces noise and interference on the line
- Compatible with *MINI-COM*® Modular Patch Panels, Faceplates, and Surface Mount Boxes
- Accepts RG-6 and RG-59 coaxial cable



Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMFSRIWY	Module supplied with 75 ohm self-terminating F-type coupler.	1	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

MINI-COM® 15-Pin High-Density D-Subminiature Module

- Field terminable module features 15-pin screw terminal
- Dual module configuration allows it to be installed in *MINI-COM*® Faceplates (plastic and stainless steel)
- SVGA compatible
- Compatible with select *MINI-COM*® Modular Patch Panels, Faceplates, and Surface Mount Boxes

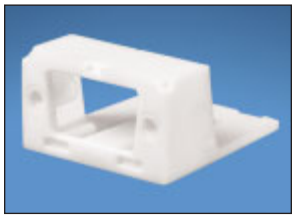


Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMD15HDIWY	2-position module supplied with one 15-pin DB connector mounted to a printed circuit board; terminates on site.	2	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

MINI-COM® Module Base for D-Subminiature Connectors

- Accepts 9-pin or 15-pin high-density connector, male or female, solder or crimp type (connector not included)
- Compatible with select *MINI-COM*® Modular Patch Panels, Faceplates, and Surface Mount Boxes



Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMDBIW-X	2-position module base which accepts 9-pin and 15-pin high density D-subminiature connectors.	2	Off White	10	100

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

MINI-COM® S-Video Punchdown Module

- Terminates 24 and 22 AWG solid or stranded conductors
- Utilizes Category 5e unshielded twisted pair or higher network cable facilitating a common, easy, and cost effective cabling installation; only four of the eight network cable conductors need to be terminated per cable
- Includes wire retention cap
- Compatible with *MINI-COM*® Modular Patch Panels, Faceplates, and Surface Mount Boxes

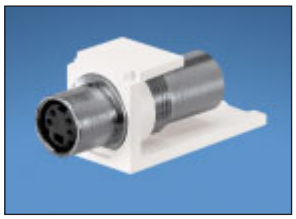


Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CJSVIW	Module supplied with one S-Video connector.	1	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).
Punchdown termination tool available on page B.77.
Optional punchdown base (AVPDB), available on page B.82.

MINI-COM® S-Video Pass-Through Module

- Supplied with one 4-pin mini DIN coupler
- Compatible with *MINI-COM*® Modular Patch Panels, Faceplates, and Surface Mount Boxes

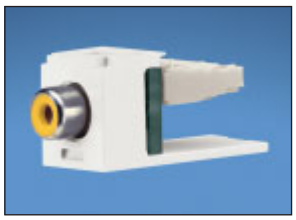


Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMSVCIWY	Module supplied with one S-video pass-through coupler.	1	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

MINI-COM® RCA 110 Punchdown Modules

- Terminate 24 and 22 AWG solid or stranded conductors
- Utilize Category 5e unshielded twisted pair or higher network cable facilitating a common, easy, and cost effective cabling installation; only two of the eight network cable conductors need to be terminated per cable
- Include wire retention cap
- Compatible with *MINI-COM*® Modular Patch Panels, Faceplates, and Surface Mount Boxes



CJRY

Part Number	Part Description	No. of Module Spaces	Insert Color	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CJRYIW	Module supplied with one RCA connector with yellow insert.	1	Yellow	Off White	1	10
CJRRIW	Module supplied with one RCA connector with red insert.	1	Red	Off White	1	10
CJRWIW	Module supplied with one RCA connector with white insert.	1	White	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).
Punchdown termination tool available on page B.77.
Optional punchdown base (AVPDB), available on page B.82.

MINI-COM® RCA Pass-Through Modules

- Supplied with one RCA coupler
- Compatible with *MINI-COM*® Modular Patch Panels, Faceplates, and Surface Mount Boxes



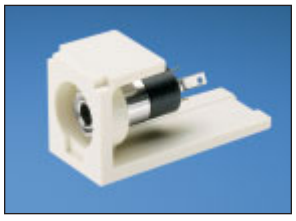
CMRPR

Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMRPRIW	Module supplied with one RCA pass-through coupler with red insert.	1	Off White	1	10
CMRPYIW	Module supplied with one RCA pass-through coupler with yellow insert.	1	Off White	1	10
CMRPWIW	Module supplied with one RCA pass-through coupler with white insert.	1	Off White	1	10
CMRPBIW	Module supplied with one RCA pass-through coupler with blue insert.	1	Off White	1	10
CMRPGIW	Module supplied with one RCA pass-through coupler with green insert.	1	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

MINI-COM® 3.5mm Stereo Connector and Coupler Modules

- Supplied with one solder-type connector or coupler
- Accept male plug found on typical stereo headsets
- Solder-type connector accepts 22 AWG stereo wire or smaller
- Insulation resistance exceeds 100 milli-ohms at DC 500V
- Rated for DC 12V., 1A
- Compatible with *MINI-COM*® Modular Patch Panels, Faceplates, and Surface Mount Boxes



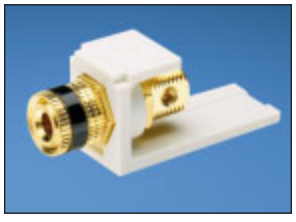
CM35MSS

Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CM35MSCIWY	3.5mm stereo coupler module.	1	Off White	1	10
CM35MSSIW	Module supplied with one 3.5mm (1/8") stereo headset solder-type connector.	1	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

MINI-COM® 5-Way Binding Post Modules

- Allow for easy installation of speaker wires, along with the ability to reconfigure speaker locations with greater ease
- Accept a variety of termination ends, including bare speaker wire (10 – 12 AWG) and banana plugs
- Gold plated and large metal contact area facilitates improved signal transmission
- Red or black stripe around collar of binding post clearly designates speaker connection
- Compatible with *MINI-COM*® Modular Patch Panels, Faceplates, and Surface Mount Boxes



CMBPB**Y

Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMBPBIWY	Module supplied with one 5-way binding post with black stripe.	1	Off White	1	10
CMBPRIWY	Module supplied with one 5-way binding post with red stripe.	1	Off White	1	10

‡For other colors, replace suffix IW (Off White) with EI (Electric Ivory) or WH (White).

MINI-COM® BNC Coax Coupler Modules

- Accept BNC plugs
- Available in 50 and 75 ohm versions
- Compatible with *MINI-COM*® Modular Patch Panels, Faceplates, and Surface Mount Boxes
- Accept RG-6 and RG-59 coaxial cable



CMBA75**Y

Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMBA75IWY	Module supplied with 75 ohm industry standard BNC coupler.	1	Off White	1	10
CMBAIWY	Module supplied with 50 ohm industry standard BNC coupler.	1	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

BNC Coupler Panel

- Mounts to standard EIA 19" rack or 23" racks with optional extender bracket



CP48BNCBLY

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
CP48BNCBLY	48-port patch panel with 48 pre-installed 75 ohm BNC couplers.	1	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.

Voice Patch Panel

LISTED

- Consists of single female telco 50-pin/25-pair connector with hook and loop fasteners wired for common active voice equipment
- 24 RJ45 ports with pins 4 and 5 active in each port
- Telco connector with hook and loop fasteners accommodate 180, 110, or 90 degree patch cord connectors on back of patch panel
- Does not require use of a punchdown tool
- Mounts to standard EIA 19" rack or 23" racks with optional extender bracket
- Write-on areas available for port identification
- Can be clearly identified with optional labels and icons



VP24382TV25Y

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
VP24382TV25Y	24-port patch panel with 24 RJ45 ports wired to one RJ21 telco connector.	1	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.

Component Labels for Voice Patch Panel



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
VP24382TV25Y	**C379X030FJJ**	**C379X030YPT**	**C379X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Mini-Com® *Ultimate ID*® Modular Patch Panels

- *Ultimate ID*® components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements
- Angled patch panels facilitate proper bend radius control and minimize the need for horizontal cable managers
- Mount to standard EIA 19" rack or 23" racks with optional extender bracket
- Accept *Mini-Com*® Modules for UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Can be clearly identified with the *PanTher*™ LS8E or *Cougar*™ LS9 Hand-Held Thermal Transfer Printers
- Non-adhesive computer printable label sheets for desktop printers and write-on labels available
- Replacement label covers available
- Labels sold separately

ULTIMATE ID



UICMPPA24BLY



UICMPPA48BLY



UICMPP24BLY



UICMPP48BLY

Part Number	Part Description	No. of Rack Spaces^	Labels Required	Std. Pkg. Qty.	Std. Ctn. Qty.
	***Mini-Com*® *Ultimate ID*® Angled Modular Patch Panels**				
UICMPPA24BLY	24-port angled patch panel with six UICPPL4BL *Mini-Com*® *Ultimate ID*® Faceplates.	1	Six 4-Port	1	10
UICMPPA48BLY	48-port angled patch panel with twelve UICPPL4BL *Mini-Com*® *Ultimate ID*® Faceplates.	2	Twelve 4-Port	1	10
	***Mini-Com*® *Ultimate ID*® Modular Patch Panels**				
UICMPP24BLY	24-port patch panel with six UICPPL4BL *Mini-Com*® *Ultimate ID*® Faceplates.	1	Six 4-Port	1	10
UICMPP48BLY	48-port patch panel with twelve UICPPL4BL *Mini-Com*® *Ultimate ID*® Faceplates.	2	Twelve 4-Port	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.
Modular patch panels shown include labels installed; labels sold separately.

MINI-COM® Flush Mount Modular Patch Panels

- Rear mounted faceplates allow modules to be flush with front of patch panel
- Accept *MINI-COM*® Modules for UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Pre-printed numbers above each port for easy identification
- White write-on areas for port and/or panel identification
- Mount to standard EIA 19" racks or 23" racks with optional extender brackets
- Angled patch panels facilitate proper bend radius control and minimize the need for horizontal cable managers



CPPA24FMWBLY

PATENTED



CPPA48FMWBLY



CPP24FMWBLY

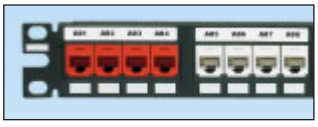


CPP48FMWBLY

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
***MINI-COM*® Angled Flush Mount Modular Patch Panels**				
CPPA24FMWBLY	Angled 24-port flush mount patch panel supplied with rear mounted faceplates.	1	1	10
CPPA48FMWBLY	Angled 48-port flush mount patch panel supplied with rear mounted faceplates.	2	1	10
***MINI-COM*® Flush Mount Modular Patch Panels**				
CPP24FMWBLY	24-port flush mount patch panel supplied with rear mounted faceplates.	1	1	10
CPP48FMWBLY	48-port flush mount patch panel supplied with rear mounted faceplates.	2	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.

Component Labels for *MINI-COM*® Flush Mount Modular Patch Panels



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
All Flush Mount Patch Panels on this Page	**C252X030FJJ**	**C252X030YPT**	**C252X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Mini-Com® *Ultimate ID*® Modular Patch Panel Frames

- *Ultimate ID*® components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements
- Mount to standard EIA 19" rack or 23" racks with optional extender bracket
- For use with *Mini-Com*® *Ultimate ID*® Patch Panel Faceplates
- Allow for custom configuration
- Angled patch panels facilitate proper bend radius control and minimize the need for horizontal cable managers



CPPA24BLY



CPPA48BLY



CPP24BLY



CPP48BLY

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
	PATENTED *Mini-Com*® *Ultimate ID*® Angled Modular Patch Panel Frames			
CPPA24BLY	Angled metal panel, accepts six UICPP2L4BL or UICPPL4BL *Ultimate ID*® Patch Panel Faceplates.	1	1	10
CPPA48BLY	Angled metal panel, accepts twelve UICPP2L4BL or UICPPL4BL *Ultimate ID*® Patch Panel Faceplates.	2	1	10
	***Mini-Com*® *Ultimate ID*® Modular Patch Panel Frames**			
CPP24BLY	Flat metal panel, accepts six UICPP2L4BL or UICPPL4BL *Ultimate ID*® Patch Panel Faceplates.	1	1	10
CPP48BLY	Flat metal panel, accepts twelve UICPP2L4BL or UICPPL4BL *Ultimate ID*® Patch Panel Faceplates.	2	1	10

^One rack space=1.75" (44.45mm).
M6 and #12-24 mounting screws included.

MINI-COM® ULTIMATE ID® Patch Panel Faceplates for Modular Patch Panel Frames

- *ULTIMATE ID®* components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements
- Accept *MINI-COM®* Modules for UTP, fiber optic and audio/video, which snap in and out for easy moves, adds, and changes
- Used with faceplate ready modular patch panel frames
- Allow for custom configuration
- Supplied with label covers; labels sold separately
- Two label pocket faceplate allows port and panel identification; also permits patch cords to be routed with blocking port ID
- Can be clearly identified with the *PANTHER™* LS8E or *COUGAR™* LS9 Hand-Held Thermal Transfer Printers
- Non-adhesive computer printable label sheets for desktop printers and write-on labels available
- Replacement label covers available



UICPP2L4BL



UICPPL4BL

Part Number	Part Description	Labels Required	Std. Pkg. Qty.	Std. Ctn. Qty.
UICPP2L4BL	Patch panel faceplate with two label pockets; accepts up to four *MINI-COM®* Modules.	Two 4-Port	1	10
UICPPL4BL	Patch panel faceplate with one label pocket; accepts up to four *MINI-COM®* Modules.	One 4-Port	1	10

Faceplates shown include labels installed, labels sold separately.
ULTIMATE ID® Labels can be found on pages O.8 – O.15.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

MINI-COM® High Density Modular Patch Panels

- Accept *MINI-COM*® Modules for UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Conserve valuable rack space, but may be limited to specific modules (UTP)
- Pre-printed numbers above each port for easy identification
- Mount to standard EIA 19" racks or 23" racks with optional extender brackets
- Angled patch panels facilitate proper bend radius control and minimize the need for horizontal cable managers
- Enhanced label version of 48 port high density patch panels only accept UTP modules



CPPA48HDWBLY PATENTED



CPPA72FMWBLY



CPP48HDWBLY



CPP72FMWBLY PATENT PENDING



CPP48HDEWBL



CPP48HDVNSWBL

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
***MINI-COM*® Angled High Density Modular Patch Panels**				
CPPA48HDWBLY	48-port angled high density patch panel supplied with rear mounted faceplates (space not available for component labels).	1	1	10
CPPA72FMWBLY	72-port angled high density flush mount patch panel supplied with rear mounted faceplates.	2	1	10
CPPA48HDEWBL	48-port high density angled patch panel with enhanced labeling features and compatibility with *PANDUIT* hand-held printers. (Only accepts *MINI-COM*® Modules for UTP applications).	1	1	10
CPPA48HDVNSWBL	48-port high density angled patch panel with vertical numbering sequence from top to bottom across panel.	1	1	10
***MINI-COM*® High Density Modular Patch Panels**				
CPP48HDWBLY	48-port high density patch panel supplied with rear mounted faceplates (space not available for component labels).	1	1	10
CPP72FMWBLY	72-port high density flush mount patch panel supplied with rear mounted faceplates.	2	1	10
CPP48HDEWBL	48-port high density patch panel with enhanced labeling features and compatibility with *PANDUIT* hand-held printers. (Only accepts *MINI-COM*® Modules for UTP applications).	1	1	10
CPP48HDVNSWBL	48-port high density patch panel with vertical numbering sequence from top to bottom across panel.	1	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.

Component Labels for *MINI-COM*® High Density Modular Patch Panels



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
CPPA72FMWBLY CPP72FMWBLY	**C261X030FJJ**	**C261X030YPT**	**C261X030FJC**	**T031X000FJC-BK**

48-port high density patch panel layout does not allow space for component labels.
For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

MINI-COM® Modular Faceplate Patch Panels

- Release snap feature on faceplate allows front access to installed modules
- Accept *MINI-COM*® Modules for UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Label versions available for easy port identification; replacement label/label covers available
- Mount to standard EIA 19" racks or 23" racks with optional extender brackets
- Angled patch panels facilitate proper bend radius control and minimize the need for horizontal cable managers



CPPLA24WBLY PATENTED



CPPLA48WBLY



CPPL24WBLY



CPPL48WBLY



CPP24WBLY



CPP48WBLY

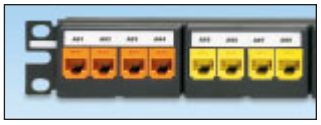


C4PPLK

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
***MINI-COM*® Angled Modular Patch Panels with Labels**				
CPPLA24WBLY	24-port angled patch panel with labels, supplied with six factory installed CFFPL4 type front removable snap-in faceplates.	1	1	10
CPPLA48WBLY	48-port angled patch panel with labels, supplied with twelve factory installed CFFPL4 type front removable snap-in faceplates.	2	1	10
***MINI-COM*® Modular Patch Panels with Labels**				
CPPL24WBLY	24-port patch panel with labels, supplied with six factory installed CFFPL4 type front removable snap-in faceplates.	1	1	10
CPPL48WBLY	48-port patch panel with labels, supplied with twelve factory installed CFFPL4 type front removable snap-in faceplates.	2	1	10
***MINI-COM*® Modular Patch Panels**				
CPP24WBLY	24-port patch panel supplied with six factory installed CFFP4 type front removable snap-in faceplates.	1	1	10
CPP48WBLY	48-port patch panel supplied with twelve factory installed CFFP4 type front removable snap-in faceplates.	2	1	10
Replacement Labels for *MINI-COM*® Modular Patch Panels				
C4PPLK	Replacement label/label cover kit for *MINI-COM*® Modular Patch Panels with Labels (CPPL24WBLY, CPPL48WBLY, CPPL24WRBLY, CPPL48WRBLY) and *MINI-COM*® Modular Furniture Faceplates with Labels (CFFPL4, CFPHSL4, CFFPEBSL4). Each kit contains six labels and six clear label covers per bag.	—	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.

Component Labels for *MINI-COM*® Modular Faceplate Patch Panels



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
All Patch Panels on this Page	**C261X035Y1J**	**C261X035Y1T**	**C261X035Y1C**	**T038X000FJC-BK‡**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For non-adhesive labeling solution, do not remove liner from label.

Mini-Com® M6 Style Modular Faceplate Patch Panels

- Arrange modules in groups of six (M6)
- Allow front access to installed modules
- Accept *Mini-Com*® Modules for UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Include pre-printed numbered labels with writable surface on back when pre-numbered labels are not applicable
- Mount to standard EIA 19" racks or 23" racks with optional extender brackets



CPPL24M6BLY



CPPL48M6BLY



C6PPLK1-24



C6PPLK25-48

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
***Mini-Com*® M6 Style Modular Faceplate Patch Panels**				
CPPL24M6BLY	24-port patch panel supplied with four factory installed CFPLM6BL snap-in faceplates.	1	1	10
CPPL48M6BLY	48-port patch panel supplied with eight factory installed CFPLM6BL snap-in faceplates.	2	1	10
Replacement Labels for *Mini-Com*® M6 Style Modular Faceplate Patch Panels				
C6PPLK1-24	Replacement labels for *Mini-Com*® M6 Style Modular Faceplate Patch Panels with label/label covers (CPPL24M6BLY). Labels are pre-printed 1 – 24 on one side and write-on area on reverse side.	—	1	10
C6PPLK25-48	Replacement labels for *Mini-Com*® M6 Style Modular Faceplate Patch Panels with label/label covers (CPPL**M6BLY). Labels are pre-printed 25 – 48 on one side and write-on area on reverse side.	—	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.

Component Labels for *Mini-Com*® M6 Style Modular Faceplate Patch Panels



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PanTher*™ LS8E Hand-Held Printer Label**	***Cougar*™ LS9 Hand-Held Printer Label**
CPPL24M6BLY CPPL48M6BLY	**C390X030Y1J**	**C390X030Y1T**	**C390X030Y1C**	**T031X000FJC-BK‡**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For non-adhesive labeling solution, do not remove liner from label.

MINI-COM® Recessed Modular Faceplate Patch Panels

- 3" recessed feature eliminates patch cord interference with cabinet doors and improves bend radius protection
- Release snap feature on faceplate allows front access to installed modules
- Accept *MINI-COM*® Modules for UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Labels included for easy port identification, replacement label/label covers available
- Mount to standard EIA 19" racks or 23" racks with optional extender brackets



CPPL24WRBLY



CPPL48WRBLY

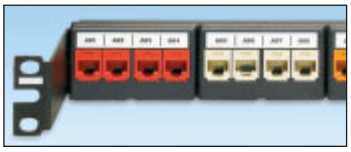


C4PPLK

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
CPPL24WRBLY	24-port recessed patch panel with labels, supplied with six factory installed CFFPL4 type front removable snap-in faceplates. Designed for use with racks and cabinets.	1	1	10
CPPL48WRBLY	48-port recessed patch panel with labels, supplied with twelve factory installed CFFPL4 type front removable snap-in faceplates. Designed for use with racks and cabinets.	2	1	10
C4PPLK	Replacement label/label cover kit for *MINI-COM*® Modular Patch Panels with Labels (CPPL24WBLY, CPPL48WBLY, CPPL24WRBLY, CPPL48WRBLY) and *MINI-COM*® Modular Furniture Faceplates with Labels (CFFPL4, CFPHSL4, CFFPEBSL4). Each kit contains six labels and six clear label covers per bag.	—	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.

Component Labels for *MINI-COM*® Recessed Modular Faceplate Patch Panels



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
CPPL24WRBLY CPPL48WRBLY	**C261X035Y1J**	**C261X035Y1T**	**C261X035Y1C**	**T038X000FJC-BK‡**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For non-adhesive labeling solution, do not remove liner from label.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

MINI-COM® 12-Port Modular Faceplate Patch Panels

- Release snap feature on faceplate allows simple front access for termination and accessibility to installed modules
- Accept *MINI-COM*® Modules for UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Mount directly onto wall
- Modular design for easy cabling revisions



CWPP12WBL



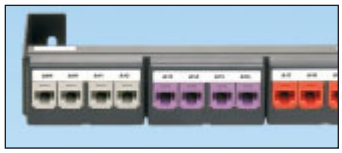
CPP12WBL



WB89D

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CWPP12WBL	12-port patch panel supplied with three factory installed CFFP4 snap-in faceplates with integrated wall mount bracket.	1	10
CPP12WBL	12-port patch panel supplied with three factory installed CFFP4 snap-in faceplates. Mounts to standard 89D bracket (WB89D).	1	10
WB89D	Wall mount bracket accepts 12-port snap-in faceplate patch panel. Can also be used to mount industry standard 66 blocks.	1	10

Component Labels for *MINI-COM*® 12-Port Modular Faceplate Patch Panels



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
CWPP12WBL CPP12WBL	C261X030FJJ	C261X030YPT	C261X030FJC	T031X000FJC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

MINI-COM® All Metal Shielded Modular Patch Panels

- Accept *MINI-COM*® Modules for shielded applications
- Provide write-on areas for port identification
- CPT removal tool allows easy moves, adds, and changes of shielded jack modules
- Mount to standard TIA/EIA 19" rack or 23" racks with optional extender bracket



CP24BLY



CP48BLY



CP24WSBLY

PATENTED



CP48WSBLY



CPA24BLY

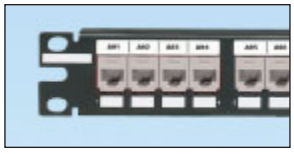


CPA48BLY

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
***MINI-COM*® All Metal Modular Patch Panels**				
CP24BLY	24-port all metal modular patch panel.	1	1	10
CP48BLY	48-port all metal modular patch panel.	2	1	10
CP72BLY	72-port all metal modular patch panel. Rear cable management is required to prevent twisting.	2	1	10
***MINI-COM*® All Metal Modular Patch Panels with Strain Relief Bar**				
CP24WSBLY	24-port all metal modular patch panel with strain relief bar.	1	1	10
CP48WSBLY	48-port all metal modular patch panel with strain relief bar.	2	1	10
***MINI-COM*® All Metal Angled Modular Patch Panels**				
CPA24BLY	24-port angled all metal patch panel.	1	1	10
CPA48BLY	48-port angled all metal patch panel.	2	1	10
CPA72BLY	72-port angled all metal patch panel.	2	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.
Each patch panel includes the CPT tool to ease removal of *MINI-COM*® Shielded Jack Modules.
Contact Customer Service for other available port options.
To bond the patch panel, see the patent pending *STRUCTUREDGROUND*™ Bonding Hardware Kits on page M.25.

Component Labels for *MINI-COM*® All Metal Shielded Modular Patch Panels



Suggested Labels Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
All Metal Shielded Modular Patch Panels on this Page	**C252X030FJJ**	**C252X030YPT**	**C252X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Strain Relief Bar with Clips

- Mounts to to the rear of standard EIA 19" racks behind each patch panel
- Supports 24 cables with hinged dual clips and provides bend radius protection
- Each adjustable clip can hold up to two cables; accommodates cable diameter range from .170" – .330" (4.3mm – 8.4mm)
- Provides superior aesthetics in cable management





PATENT PENDING

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
SRBWCY	Strain relief bar with integrated adjustable clips; supports, manages and provides bend radius protection for up to 24 cables in 1 RU.	1	1	10

^One rack space = 1.75" (44.45mm).

Strain Relief Bars for Patch Panels

- Mount to standard EIA 19" racks
- Ideal for standard density patch panels (24 ports per RU)
- *Tak-Ty*® Hook & Loop Cable Ties can be used for additional cable management



SRBM19BLY



SRBCT



SRB19BLY

SRBS19BL-XY



SRBBRKT

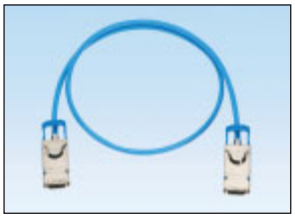
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Strain Relief Bar/Manager			
SRBM19BLY	Cable strain relief bar manager; attaches to 19" rack to support cables in punchdown or modular patch panel applications; provides cable management using included *Tak-Ty*® Hook & Loop Cable Ties (six pieces).	1	10
SRBCT	Cable strain relief bar with cable tie clips.	1	10
Extended Strain Relief Bar			
SRB19BLY	Cable strain relief bar extends 2" off of the rack to support cables in punchdown or modular patch panel applications.	1	10
Straight Strain Relief Bar			
SRBS19BL-XY	Cable strain relief bar supports cables in punchdown or modular patch panel applications.	10	—
Strain Relief Bar Brackets			
SRBBRKT	Quick release brackets for strain relief bars; convert conventional screw mounting of strain relief bar to quick release mounting/removal.	1	10

#12-24 mounting screws included.

NEW!

InfiniBand Cable Assemblies

- Dual rated for SDR (Single Data Rate) and DDR (Double Data Rate) to provide compliant InfiniBand interconnections up to 20Gbps
- Constructed with high speed 5 GHz twin axial cable and 8 shielded pairs
- Included on IBTA Integrator list ensuring InfiniBand compliant performance when plugged into any IBTA compliant port
- Smaller diameter cable design typically provides 30% smaller cross-sectional area than competing cable assemblies enabling easier cable management and improved air flow
- Variety of standard lengths allow more precise deployment, improved cable management and cost efficiencies



Part Number	Part Description	Length (m)	Std. Pkg. Qty.	Std. Ctn. Qty.
PIB4MD1MBU	Dual rated, twin axial cable assembly with industry standard 4X speed connector on each end.	1	1	10
PIB4MD2MBU		2	1	10
PIB4MD3MBU		3	1	10
PIB4MD4MBU		4	1	10
PIB4MD5MBU		5	1	10
PIB4MD6MBU		6	1	10
PIB4MD7MBU		7	1	10
PIB4MD8MBU		8	1	10
PIB4MD9MBU		9	1	5
PIB4MD10MBU		10	1	5
PIB4MD11MBU		11	1	5
PIB4MD12MBU		12	1	5

Component Labels for InfiniBand Cable Assemblies



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
All Cable Assemblies on this Page	**S100X225YAJ**	**S100X225VATY**	**S100X225VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

GP6™ *PLUS* Category 6 High Density Kits

- Exceed TIA/EIA-568-B.2-1 Category 6 standard
- Ideal for use in cross-connects and consolidation point applications
- Provides pre-packaged components necessary for termination
- Kit includes required quantity of bases and 4-pair connecting blocks, label holders and labels
- Highly visible color coded wiring slots ease wiring



GPKBW144Y



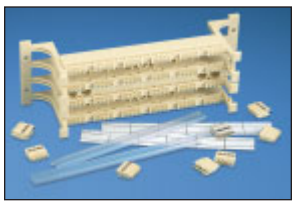
GPKBW432Y

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GPKBW144Y	144-pair (36-port) Category 6 high-density punchdown field termination kit with legs.	1	10
GPKBW432Y	432-pair (108-port) Category 6 high-density punchdown field termination kit with legs.	1	10

Cable requirement: terminates most 22-26 AWG solid or stranded IWC wire with a .050" (1.27mm) max o.d., either PVC or plenum rated.
Termination tool available on page B.70.
To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components. Can be clearly identified with labels found on page B.66.

GP6™ *PLUS* Category 6 Standard Density Kits

- Exceed TIA/EIA-568-B.2-1 Category 6 standard
- Ideal for use in cross-connects and consolidation point applications
- Provide pre-packaged components necessary for termination
- Kit includes required quantity of bases and 4-pair connecting blocks, label holders and labels
- Highly visible color coded wiring slots ease wiring



GPKBW24Y



GPKBW72Y

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GPKBW24Y	96-pair (24-port) Category 6 punchdown base field termination kit with legs.	1	10
GPKBW72Y	288-pair (72-port) Category 6 punchdown base field termination kit with legs.	1	10

Cable requirement: terminates most 22 – 26 AWG solid or stranded IWC wire with a .050" (1.27mm) max o.d., either PVC or plenum rated.
Termination tool available on page B.70.
To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components. Can be clearly identified with labels found on page B.66.

GP6™ *PLUS* Category 6 High Density Rack Mount Panel Kits

- Exceed TIA/EIA-568-B.2-1 Category 6 standard
- Ideal for use in cross-connects and consolidation point applications
- Provide pre-packaged components necessary for termination
- Include required quantity of bases and 4-pair connecting blocks, label holders, and labels
- Highly visible color coded wiring slots ease wiring
- Mount to standard TIA/EIA 19" racks



GPB2884R2Y



GPB2884R4WJY

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
GPB2884R2Y	Two 144-pair (36-port) Category 6 punchdown bases premounted to a panel with 4-pair connector kit included.	2	1	10
GPB2884R4WJY	Two 144-pair (36-port) Category 6 punchdown bases and jumper troughs premounted to a panel with 4-pair connector kit included.	4	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.
Termination tool available on page B.70.
Cable requirement: terminates most 22 – 26 AWG solid or stranded IWC wire with a .050" (1.27mm) max o.d., either PVC or plenum rated.
To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components.
Can be clearly identified with labels found on page B.66.

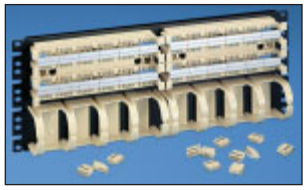
GP6™ *PLUS* Category 6 Standard Density Rack Mount Panel Kits

LISTED CERTIFIED

- Exceed TIA/EIA-568-B.2-1 Category 6 standard
- Ideal for use in cross-connects and consolidation point applications
- Provide pre-packaged components necessary for termination
- Include required quantity of bases and 4-pair connecting blocks, label holders, and labels
- Highly visible color coded wiring slots ease wiring
- Mount to standard TIA/EIA 19" racks



GPB484R2Y



GPB484R4WJY

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
GPB484R2Y	Two 96-pair (24-port) Category 6 punchdown bases premounted to panel with 4-pair connector kit included.	2	1	10
GPB484R4WJY	Two 96-pair (24-port) Category 6 punchdown bases and jumper troughs premounted to panel with 4-pair connector kit included.	4	1	10

^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.
Termination tool available on page B.70.
Cable requirement: terminates most 22 – 26 AWG solid or stranded IWC wire with a .050" (1.27mm) max o.d., either PVC or plenum rated.
To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components.
Can be clearly identified with labels found on page B.66.

GP6™ *PLUS* Category 6 Connecting Blocks

- Exceed TIA/EIA-568-B.2-1 Category 6 standard
- Available in 4 or 5-pair connection blocks
- Highly visible color coded wiring slots ease wiring
- Can be terminated with single or multiple position punchdown tools
- Can be utilized with discrete wires or *GP6*™ *PLUS* Patch Cord Connector
- Constructed of UL 94V-0 high impact polycarbonate material
- Patented single piece robust construction
- Optional 4-pair retaining clip (GPRC4) provides additional conductor retention and minimizes errors during moves, adds, and changes



GPCB4-*Y



GPCB5-*Y

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
4-Pair Connecting Block			
GPCB4-XY	4-pair Category 6 punchdown connecting block.	10	1000
GPCB4-CY	4-pair Category 6 punchdown connecting block.	100	1000
5-Pair Connecting Block			
GPCB5-XY	5-pair Category 6 punchdown connecting block.	10	1000
GPCB5-CY	5-pair Category 6 punchdown connecting block.	100	1000

Termination tool available on page B.70.
Cable requirement: terminates most 22 – 26 AWG solid or stranded IWC wire with a .050" (1.27mm) max o.d., either PVC or plenum rated.
To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components.

GP6™ *PLUS* Category 6 High Density Bases
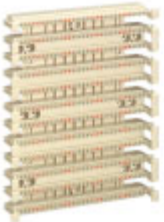
- Exceed TIA/EIA-568-B.2-1 Category 6 standard
- Ideal for use in cross-connects and consolidation point applications
- Highly visible color coded wiring slots eases wiring
- Sturdy one-piece design
- Available with or without mounting legs for a variety of mounting options
- Multiple mounting holes available



GPB144-X



GPBW144-X



GPB432-X



GPBW432-X

Part Number	Part Description	Std. Pkg. Qty.
144-Pair (36-Port) Base		
GPB144-X	Positions and holds UTP wire for termination with Category 6 punchdown connecting blocks.	10
144-Pair (36-Port) Base – with Legs		
GPBW144-X	Positions and holds UTP wire for termination with Category 6 punchdown connecting blocks, includes mounting legs.	10
432-Pair (108-Port) Base		
GPB432-X	Positions and holds UTP wire for termination with Category 6 punchdown connecting blocks.	10
432-Pair (108-Port) Base – with Legs		
GPBW432-X	Positions and holds UTP wire for termination with Category 6 punchdown connecting blocks, includes mounting legs.	10

Termination tool available on page B.70.
For rack mount applications see page B.72.
Cable requirement: terminates most 22 – 26 AWG solid or stranded IWC wire with a .050" (1.27mm) max o.d., either PVC or plenum rated.
To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components.
Can be clearly identified with label holders and recommended labels shown on page B.66.

GP6™ *PLUS* Category 6 Standard Density Bases

LISTED CERTIFIED
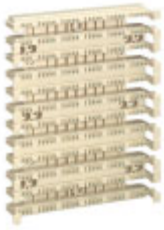
- Exceed TIA/EIA-568-B.2-1 Category 6 standard
- Ideal for use in cross-connects and consolidation point applications
- Highly visible color coded wiring slots ease wiring
- Sturdy one-piece design
- Available with or without mounting legs for a variety of mounting options
- Multiple mounting holes available



GPB24-X



GPBW24-X



GPB72-X



GPBW72-X

Part Number	Part Description	Std. Pkg. Qty.
96-Pair (24-Port) Category 6 Punchdown Base		
GPB24-X	Positions and holds UTP wire for termination with Category 6 connecting blocks.	10
96-Pair (24-Port) Category 6 Punchdown Base – with Legs		
GPBW24-X	Positions and holds UTP wire for termination with Category 6 connecting blocks, includes mounting legs.	10
288-Pair (72-Port) Category 6 Punchdown Base		
GPB72-X	Positions and holds UTP wire for termination with Category 6 connecting blocks.	10
288-Pair (72-Port) Category 6 Punchdown Base – with Legs		
GPBW72-X	Positions and holds UTP wire for termination with Category 6 connecting blocks, includes mounting legs.	10

Termination tool available on page B.70.
For rack mount applications see page B.72.
Cable requirement: terminates most 22 – 26 AWG solid or stranded IWC wire with a .050" (1.27mm) max o.d., either PVC or plenum rated.
To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components. Can be clearly identified with label holders and recommended labels shown below.

GP6™ *PLUS* Standard Density Tower Kit

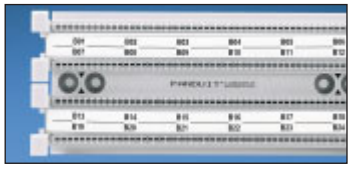
- Ideal for use in cross-connects, consolidation point, and wall mount applications
- Tower provides vertical feeder cable management
- Supplied with tower, bases, 4-pair connecting blocks, label and label holders



Part Number	Part Description	Std. Pkg. Qty.
GPKT724Y	288-pair (72-port) Category 6 punchdown standard density *GP6*™ *PLUS* Tower Kit.	1

Termination tool available on page B.70.
Cable requirement: terminates most 22 – 26 AWG solid or stranded IWC wire with a .050" (1.27mm) max o.d., either PVC or plenum rated.
To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components.

Component Labels for *GP6*™ *PLUS* Category 6 Standard Density Bases and *GP6*™ *PLUS* Standard Density Tower Kit



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Punchdown System Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
All GP Kits on Pages C1.33 – C1.36	**C788X050Y1J**	**C788X050Y1T**	**C788X050Y1C**	**T100X000VPC-BK‡**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For non-adhesive labeling solution, do not remove liner from label.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

GP6™ *PLUS* Patch Connectors

LISTED CERTIFIED

- Patch into *GP6*™ *PLUS* Connecting Blocks
- Field terminable
- Cable clamp on cover facilitates easier wiring
- IDCs provide reliable, gas-tight connections
- Strain relief reduces stress on cable
- Contain two-piece, snap-together housing
- Polarized to prevent reverse installation to connector block
- Clear polycarbonate cover keeps conductors visible after termination
- Cover also provides proper wiring sequence



GPC5E1-XY



GPC5E2-XY

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GPC5E1-XY	Terminates 1-pair 24 AWG solid or stranded cable.	10	100
GPC5E2-XY	Terminates 2-pair 24 AWG solid or stranded cable.	10	100

To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components.

GP6™ *PLUS* Patch Cord Assemblies

LISTED

- Exceed TIA/EIA-568-B.2-1 Category 6 standard
- Factory assembled patch cord assembly
- Ideal for use in cross-connects and consolidation point applications with *GP6*™ *PLUS* Connector Blocks



GPPC4IG*Y

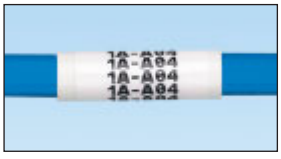


GPPC4IG*AY and GPPC4IG*BY

Part Number	Part Description	Length (Ft.)	Std. Pkg. Qty.	Std. Ctn. Qty.
GPPC4IG3Y	One 4-pair *GP6*™ *PLUS* Connector on each end.	3	1	10
GPPC4IG5Y		5	1	10
GPPC4IG7Y		7	1	10
GPPC4IG9Y		9	1	10
GPPC4IG14Y		14	1	10
GPPC4IG20Y		20	1	10
GPPC4IG3AY	One 4-pair *GP6*™ *PLUS* Connector wired to a RJ45 *PAN-PLUG*® T568A wiring scheme.	3	1	10
GPPC4IG5AY		5	1	10
GPPC4IG7AY		7	1	10
GPPC4IG9AY		9	1	10
GPPC4IG14AY		14	1	10
GPPC4IG20AY		20	1	10
GPPC4IG3BY	One 4-pair *GP6*™ *PLUS* Connector wired to a RJ45 *PAN-PLUG*® T568B wiring scheme.	3	1	10
GPPC4IG5BY		5	1	10
GPPC4IG7BY		7	1	10
GPPC4IG9BY		9	1	10
GPPC4IG14BY		14	1	10
GPPC4IG20BY		20	1	10

To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 *PLUS* components.

Cable Labels for *GP6*™ *PLUS* Patch Cord Assemblies



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER***™ **LS8E Hand-Held Printer Label**	***COUGAR***™ **LS9 Hand-Held Printer Label**
All GPPC4IG Parts	**S100X125YAJ**	**S100X125VATY**	**S100X125VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

GP6™ 1 and 2-Pair Patch Cord Assemblies

LISTED

- Factory assembled patch cord assembly
- Ideal for use in cross-connect applications with *GP6*™ *PLUS* Connector Blocks



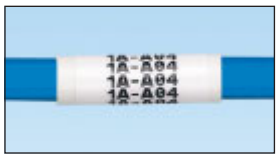
GPPC1IG*Y



GPPC2IG*Y

Part Number	Part Description	Length (Ft.)	Std. Pkg. Qty.	Std. Ctn. Qty.
GPPC1IG3Y	One 1-pair *GP6*™ Connector on each end.	3	1	10
GPPC1IG5Y		5	1	10
GPPC1IG7Y		7	1	10
GPPC1IG9Y		9	1	10
GPPC1IG14Y		14	1	10
GPPC1IG20Y		20	1	10
GPPC2IG3Y	One 2-pair *GP6*™ Connector on each end.	3	1	10
GPPC2IG5Y		5	1	10
GPPC2IG7Y		7	1	10
GPPC2IG9Y		9	1	10
GPPC2IG14Y		14	1	10
GPPC2IG20Y		20	1	10

Cable Labels for *GP6*™ 1 and 2-Pair Patch Cord Assemblies



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
All GPPC Parts	S100X125YAJ	S100X125VATY	S100X125VAC	T100X000CBC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Jumper Troughs

- Available with or without legs for a variety of mounting options
- Unique finger design maintains cable bend radius
- Provide optimum cable management when used with *GP6™ PLUS* and *PAN-PUNCH®* Bases



P110JT-X P110JTW-X

Part Number	Part Description	Std. Pkg. Qty.
P110JTW-X	Jumper trough with legs.	10
P110JT-X	Jumper trough.	10
P110JTR2Y	Two jumper troughs mounted to two rack space panel.	1

GP6™ PLUS Termination Tools and Accessories

- Terminate wires on both cable and cross-connect sides of *GP6™* Blocks
- Reversible blade provides option of terminating without cutting wire
- 4-pair punchdown tool seats 4 or 5-pair connecting blocks



GPDTM



GPST

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
4-Pair Punchdown Tool			
GPDTM	Inserts and cuts off up to 4-pairs at a time, for use with *GP6™ PLUS* System only.	1	10
4-Pair Replacement Head Assembly			
GPDTMH	Replacement head assembly for *GP6™ PLUS* 4-Pair Punchdown Tool.	1	10
4-Pair Replacement Blade			
GPDTMB	Replacement blade for *GP6™ PLUS* 4-Pair Punchdown Tool.	1	10
Single Wire Punchdown Tool			
GPST	Inserts and cuts off one wire at a time, for use with *GP6™ PLUS* System only.	1	—
Single Wire Replacement Blade			
GPSTB	Replacement blade for *GP6™ PLUS* Single Wire Punchdown Tool.	1	—

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

PAN-PUNCH® 110 Category 5e System Kits

LISTED CERTIFIED

- Exceed TIA/EIA-568-B.2 Category 5e standard
- Field terminable
- Ideal for use in cross-connects and consolidation point applications
- Provide pre-packaged components necessary for termination
- Include required quantity of bases and connecting blocks, label holders, and labels
- Available in 100 or 300 pair bases with 3, 4, or 5-pair connecting blocks



100-Pair



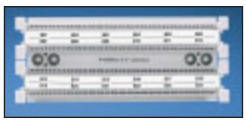
300-Pair

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
100-Pair Termination Kits			
P110KB1004Y	Field terminated. Includes a base, 4-pair connector kit with five 4-pair connectors and one 5-pair connector per row of 25 pairs, two label holders and two white designation labels.	1	10
P110KB1005Y	Field terminated. Includes a base, 5-pair connector kit with five 5-pair connectors per row of 25 pairs, two label holders and two white designation labels.	1	10
300-Pair Termination Kits			
P110KB3004Y	Field terminated. Includes a base, 4-pair connector kit with five 4-pair connectors and one 5-pair connector per row of 25 pairs, two label holders and two white designation labels.	1	10
P110KB3005Y	Field terminated. Includes a base, 5-pair connector kit with five 5-pair connectors per row of 25 pairs, two label holders and two white designation labels.	1	10

It is common practice to completely fill each 25-pair wire strip with connecting blocks. Each kit contains the adequate number of connecting blocks to do so. Example: P110KB1004 includes five 4-pair and one 5-pair connecting block per 25-pair wiring strip for a total of twenty 4-pair and four 5-pair connecting blocks as well as two label holders and two white designation labels.

Termination tool available on page B.77.

Cable requirement: terminates most 22 – 26 AWG solid or stranded IWC wire with a .050" (1.27mm) max o.d., either PVC or plenum rated.



Component Quantity per *PAN-PUNCH*® 110 Category 5e Kits							
	Bases		Connecting Blocks			Label Holders	Labels
Part Number	P110BW300	P110BW100	P110CB3	P110CB4	P110CB5	P110LH	DSL110
P110KB1004Y	—	1	—	20	4	2	2
P110KB1005Y	—	1	—	—	20	2	2
P110KB3004Y	1	—	—	60	12	6	6
P110KB3005Y	1	—	—	—	60	6	6

19" Punchdown Rack Mount Panels

- Accept punchdown bases for rack mount applications



P110B100R2BY



P110B100R4BY

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
P110B100R2BY	Panel accepts up to 2 RU of punchdown bases.	2	1	10
P110B100R4BY	Panel accepts up to 4 RU of punchdown bases.	4	1	10

^One rack space = 1.75" (44.45mm).
Includes mounting screws.

PAN-PUNCH® Category 5e 19" Rack Mount Panels

- Exceed TIA/EIA-568-B.2 Category 5e standard
- Ideal for use in cross-connects and consolidation point applications
- Mount to standard TIA/EIA 19" racks
- Exclusive deeper channel to facilitate TIA/EIA Category 5e cabling installations



P110B100R2Y



P110B100R4WJY

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
P110B100R2Y	Two 100-pair bases premounted to panel.	2	1	10
P110B100R4WJY	Two 100-pair bases with jumper troughs premounted to panel.	4	1	10

^One rack space = 1.75" (44.45mm).
Includes mounting screws.
Termination tool available on page B.77.
For connecting blocks see page B.74.
Can be clearly identified with label holders and recommended labels shown on page B.73.

PAN-PUNCH® Category 5e 19" Rack Mount Panel Kits

- Exceed TIA/EIA-568-B.2 Category 5e standard
- Field terminable
- Ideal for use in cross-connects and consolidation point applications
- Include required quantity of bases and connecting blocks, label holders and labels
- Available with 4 or 5-pair connecting blocks



P110B1004R2Y



P110B1004R4WJY

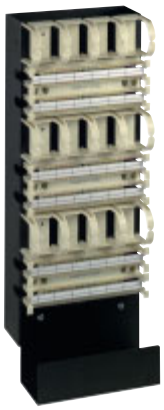
Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
Rack Mount Panel Kit with Bases and Connecting Blocks				
P110B1004R2Y	Two 100-pair bases premounted to panel. 4-pair connector kit included with five 4-pair connectors and one 5-pair connector per row of 25 pairs.	2	1	10
P110B1005R2Y	Two 100-pair bases premounted to panel. 5-pair connector kit included with five 5-pair connectors per row of 25 pairs.	2	1	10
Rack Mount Panel Kit with Bases, Connecting Blocks and Jumper Troughs				
P110B1004R4WJY	Two 100-pair bases and jumper troughs premounted to 19" rack mount panel. 4-pair connector kit included with five 4-pair connectors and one 5-pair connector per row of 25 pairs.	4	1	10
P110B1005R4WJY	Two 100-pair bases and jumper troughs premounted to 19" rack mount panel with 5-pair connector kit included with five 5-pair connectors per row of 25 pairs.	4	1	10

^One rack space = 1.75" (44.45mm).
Includes mounting screws.
Termination tool available on page B.77.
Can be clearly identified with labels found on page B.73.

PAN-PUNCH® 110 Category 5e Tower System

LISTED CERTIFIED

- Provides a complete cross-connect system
- Designed for wall mount applications
- Available in 300 and 900 pair configurations with 3, 4, or 5-pair connecting blocks
- Supplied jumper troughs provide horizontal cable management
- Tower provides vertical feeder cable management

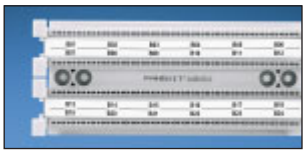


P110KT300Y

Part Number	Part Description	Std. Pkg. Qty.
***PAN-PUNCH*® 300-Pair Tower Kits**		
P110KT3004Y	Convenient packaging includes all of the components required to completely wire a 110 base.	1
P110KT3005Y		1
***PAN-PUNCH*® 900-Pair Tower Kits**		
P110KT9004Y	Convenient packaging includes all of the components required to completely wire a 110 base.	1
P110KT9005Y		1
***PAN-PUNCH*® Towers**		
P110T300Y	300-pair tower. Components sold separately.	1
P110T900Y	900-pair tower. Components sold separately.	1

Each tower system contains adequate connecting blocks to complete each 25-pair wiring strip.
Example: P110KT3004Y includes five 4-pair and one 5-pair connecting block per 25-pair wiring strip for a total of sixty 4-pair and twelve 5-pair connecting blocks.
GP6™ PLUS system can be installed on individual towers, not recommended for use with *GP6™ PLUS* high density bases.
Termination tool available on page B.77.
Cable requirement: terminates most 22 – 26 AWG solid or stranded IWC wire with a .050" (1.27mm) max o.d., either PVC or plenum rated.

Component Labels for *PAN-PUNCH*® 110 Category 5e Tower Systems



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Punchdown System Part Number	Laser/Ink Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
All *PAN-PUNCH*® Tower Kits	C750X050Y1J	C750X050Y1T	C750X050Y1C	T050X000VPC-BK‡

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For non-adhesive labeling solution, do not remove liner from label.

Vertical Cable Managers for Tower Systems

LISTED CERTIFIED

- Finger design allows for easy changes
- Can be mounted between towers
- Compatible with *GP6™ PLUS* or 110 Tower Systems
- Designed for wall mount or 19" rack mount applications
- Facilitates vertical cable management
- Rugged all metal construction



P110VCM300



P110VCM



P110VCM900

Part Number	Part Description	Color	Std. Pkg. Qty.
Vertical Cable Manager for use with 300-Pair Tower System			
P110VCM300	Mounts adjacent to 300-pair tower system.	Black	1
Vertical Cable Manager for use with 900-Pair Tower System			
P110VCM	Mounts to plywood backboard and adjacent to bases and jumper troughs. White metal backboard and large D-rings, designed for wall mount vertical or horizontal cable management.	White	1
Vertical Cable Manager for use with Backboard Mounting			
P110VCM900	Mounts adjacent to 900-pair tower system.	Black	1

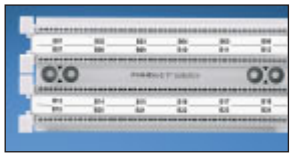
110 Punchdown Label Holder

- Use with adhesive or non-adhesive designation labels



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
P110LH	Label holder snaps into 110 and *GP6*™ Bases.	6	60

Component Labels for 110 Punchdown Designation Label Holders



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Punchdown Holder Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
P110LH	C750X050Y1J	C750X050Y1T	C750X050Y1C	T050X000VPC-BK‡

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For non-adhesive labeling solution, do not remove liner from label.

19" Rack Mount Bracket Kits

LISTED CERTIFIED

- Used to attach tower systems and vertical cable managers to 19" racks
- Use two towers side-by-side or a tower and a vertical wire manager side-by-side
- Include brackets and mounting screws



P110TB

Part Number	Part Description	Std. Pkg. Qty.
P110TB300Y	Kit for 300-pair tower or vertical wire management.	1
P110TB900Y	Kit for 900-pair tower or vertical wire management.	1

PAN-PUNCH® 110 Category 5e Connecting Blocks

LISTED CERTIFIED

- Exceeds TIA/EIA-568-B.2 Category 5e standard
- Available in 3, 4, or 5-pair connection blocks
- Dual IDC terminates UTP cable on 110 base and UTP cable or 110 patch cords for cross-connecting
- Highly visible color coded wiring slots ease wiring
- Can be used with single or multiple punchdown tools
- Can be utilized with discrete wires or *PAN-PUNCH*® Patch Cord Connector
- Constructed of UL 94V-0 high impact polycarbonate material
- Patented single piece robust construction



P110CB3-*Y



P110CB4-*Y



P110CB5-*Y

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
3-Pair 110 Connecting Blocks			
P110CB3-XY	3-pair connecting block.	10	1000
P110CB3-CY		100	1000
4-Pair 110 Connecting Blocks			
P110CB4-XY	4-pair connecting block.	10	1000
P110CB4-CY		100	1000
5-Pair 110 Connecting Blocks			
P110CB5-XY	5-pair connecting block.	10	1000
P110CB5-CY		100	1000

Termination tool available on page B.77.
Cable requirement: terminates most 22 – 26 AWG solid or stranded IWC wire with a .050" (1.27mm) max o.d., either PVC or plenum rated.

PAN-PUNCH® 110 Category 5e Bases

- Exclusive deeper channel to facilitate TIA/EIA Category 5e cabling installations
- Ideal for use in cross-connects and consolidation point applications
- Available with or without legs for various mounting options
- Sturdy one-piece design
- Highly visible color coded wiring strip



P110BW100-X



P110B100-X



P110BW300-X



P110B300-X

Part Number	Part Description	Std. Pkg. Qty.
100-Pair Base – with Legs		
P110BW100-X	Positions and holds UTP cable for termination with *PAN-PUNCH*® 110 Connecting Blocks. Legs allow cables to be routed behind bases.	10
100-Pair Base		
P110B100-X	Positions and holds UTP cable for termination with *PAN-PUNCH*® 110 Connecting Blocks. For frame or rack mount wiring behind bases.	10
300-Pair Base – with Legs		
P110BW300-X	Positions and holds UTP cable for termination with *PAN-PUNCH*® 110 Connecting Blocks. Legs allow cables to be routed behind bases.	10
300-Pair Base		
P110B300-X	Positions and holds UTP cable for termination with *PAN-PUNCH*® 110 Connecting Blocks. For frame or rack mount wiring behind bases.	10

Cable requirement: terminates most 22 – 26 AWG solid or stranded IWC wire with a .050" (1.27mm) max o.d., either PVC or plenum rated.
Can be clearly identified with label holders and recommended labels shown on page B.74.

PAN-PUNCH® 110 Patch Connectors

- Contain two-piece, snap together housing
- Field terminable
- Cable clamp on cover provides easier wiring
- IDCs provide reliable gas-tight connections
- Strain relief reduces stress on cable
- Polarized to prevent reverse installation to connector block
- Clear polycarbonate cover keeps conductors visible after termination



P110PC1-XY



P110PC2-XY



P110PC3-XY



P110PC4-XY

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
P110PC1-XY	Terminates 1-pair, 24 AWG solid or stranded cable.	10	100
P110PC2-XY	Terminates 2-pairs, 24 AWG solid or stranded cable.	10	100
P110PC3-XY	Terminates 3-pairs, 24 AWG solid or stranded cable.	10	100
P110PC4-XY	Terminates 4-pairs, 24 AWG solid or stranded cable.	10	100

PAN-PUNCH® 110 Patch Cord Assemblies

- Factory assembled patch cord assembly
- Ideal for use in cross-connect applications with *PAN-PUNCH*® 110 connecting blocks



P110PC*IG*Y

Part Number	Part Description	Length (Ft.)‡	Std. Pkg. Qty.	Std. Ctn. Qty.
P110PC1IG2Y	1-pair 110 connector on each end. Meets Category 3 performance requirements.	2	1	10
P110PC1IG4Y		4	1	10
P110PC1IG5Y		5	1	10
P110PC1IG6Y		6	1	10
P110PC2IG2Y	2-pair 110 connector on each end. Meets Category 5 performance requirements.	2	1	10
P110PC2IG4Y		4	1	10
P110PC2IG5Y		5	1	10
P110PC2IG6Y		6	1	10
P110PC4IG2Y	4-pair 110 connector on each end. Meets Category 5e performance requirements.	2	1	10
P110PC4IG4Y		4	1	10
P110PC4IG5Y		5	1	10
P110PC4IG6Y		6	1	10
P110PC4IG2AY	4-pair 110 connector to *PAN-PLUG*® RJ45 modular plug – T568A wired. Meets Category 5e performance requirements.	2	1	10
P110PC4IG4AY		4	1	10
P110PC4IG5AY		5	1	10
P110PC4IG6AY		6	1	10
P110PC4IG2BY	4-pair 110 connector to *PAN-PLUG*® RJ45 modular plug – T568B wired. Meets Category 5e performance requirements.	2	1	10
P110PC4IG4BY		4	1	10
P110PC4IG5BY		5	1	10
P110PC4IG6BY		6	1	10

‡For lengths 7, 8, 9, 12 or 15 feet, change the length designation in the part number to the desired length.

Cable Labels for *PAN-PUNCH*® 110 Patch Cord Assemblies



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Assemblies Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
P110PC1	**S100X125YAJ**	**S100X125VATY**	**S100X125VAC**	**T100X000CBC-BK**
P110PC2&4	**S100X150YAJ**	**S100X150VATY**	**S100X150VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Jumper Troughs

- Available with or without legs for a variety of mounting options
- Unique finger design maintains cable bend radius
- Provide optimum cable management when used with *GP6™ PLUS* and *PAN-PUNCH®* Bases



P110JT-X P110JTW-X

Part Number	Part Description	Std. Pkg. Qty.
P110JTW-X	Jumper trough with legs.	10
P110JT-X	Jumper trough.	10
P110JTR2Y	Two jumper troughs mounted to two rack space panel.	1

PAN-PUNCH® Punchdown Tools and Accessories

- Terminate wires on both cable and cross-connect sides of 110 connecting blocks
- Single pair punchdown tool terminates on the back of the *DP6™ 10GIG™* , *DP6™ PLUS*, and *DP5e™* Patch Panels
- Reversible blade provides option of terminating without cutting wire
- 5-pair punchdown tool seats 3, 4, or 5-pair connecting blocks onto 110 base



PDT110M



PDT110

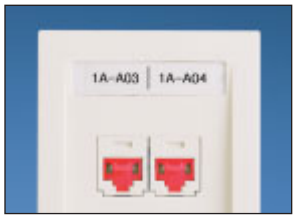
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
5-Pair Punchdown Tool			
PDT110M	5-pair punchdown tool, can terminate up to 5 pairs at a time.	1	10
Replacement Head			
PDH110M	Replacement head assembly for 5-pair punchdown tool.	1	10
Replacement Blade Assembly			
PDB110M	Replacement blade for 5-pair punchdown tool.	1	10
Single Punchdown Tool			
PDT110	Punchdown tool and blade for 110 style IDC's. Terminates and cuts UTP cable in one operation.	1	—
Replacement Blade			
PDTH110	Replacement blade for single pair punchdown tool.	1	—

RJ45 Jack Blockout Device

- Blocks unauthorized access to jacks and potentially harmful foreign objects, saving time and money associated with data security breaches, network downtime, repair and hardware replacement
- Compatible with most RJ45 jacks to accommodate a variety of applications and does not interfere with jack contacts
- Can be installed/removed without interfering with adjacent jacks or hardware
- May only be released with the special removal tool, ensuring the safety and security of your network infrastructure



PSL-DCJB



Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-DCJB*	Package of ten jack module blockout devices and one removal tool.	Red	1	20
PSL-DCJB-BL*	Package of ten jack module blockout devices and one removal tool.	Black	1	20
PSL-DCJB-BU*	Package of ten jack module blockout devices and one removal tool.	Blue	1	20
PSL-DCJB-YL*	Package of ten jack module blockout devices and one removal tool.	Yellow	1	20
PSL-DCJB-IW*	Package of ten jack module blockout devices and one removal tool.	Off White	1	20
PSL-DCJB-GR*	Package of ten jack module blockout devices and one removal tool.	Green	1	20
PSL-DCJB-OR*	Package of ten jack module blockout devices and one removal tool.	Orange	1	20
PSL-DCJB-IG*	Package of ten jack module blockout devices and one removal tool.	International Gray	1	20

*Available in bulk packages of 100 devices and five removal tools. To order bulk package add -C to the suffix of part number.

RJ45 Plug Lock-in Device

NEW!

- Tamper-resistant design blocks unauthorized removal of cable, IP phone, other networking equipment or critical connection
- Deters unauthorized users from moving or stealing VoIP phones helping to maintain E911 service
- Compact design does not interfere with adjacent jacks, even in high-density applications





Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
Flush – works with flush mounted jacks				
PSL-DCPL*	Package of ten RJ45 plug lock-in devices and one installation/removal tool.	Red	1	20
PSL-DCPL-BL*	Package of ten RJ45 plug lock-in devices and one installation/removal tool.	Black	1	20
PSL-DCPL-BU*	Package of ten RJ45 plug lock-in devices and one installation/removal tool.	Blue	1	20
PSL-DCPL-YL*	Package of ten RJ45 plug lock-in devices and one installation/removal tool.	Yellow	1	20
PSL-DCPL-IW*	Package of ten RJ45 plug lock-in devices and one installation/removal tool.	Off White	1	20
PSL-DCPL-GR*	Package of ten RJ45 plug lock-in devices and one installation/removal tool.	Green	1	20
PSL-DCPL-OR*	Package of ten RJ45 plug lock-in devices and one installation/removal tool.	Orange	1	0
PSL-DCPL-IG*	Package of ten RJ45 plug lock-in devices and one installation/removal tool.	International Gray	1	20
Recessed – works with recessed jacks				
PSL-DCPLR*	Package of ten recessed RJ45 plug lock-in devices and one installation/removal tool.	Red	1	20
PSL-DCPLR-BL*	Package of ten recessed RJ45 plug lock-in devices and one installation/removal tool.	Black	1	20
PSL-DCPLR-BU*	Package of ten recessed RJ45 plug lock-in devices and one installation/removal tool.	Blue	1	20
PSL-DCPLR-YL*	Package of ten recessed RJ45 plug lock-in devices and one installation/removal tool.	Yellow	1	20
PSL-DCPLR-IW*	Package of ten recessed RJ45 plug lock-in devices and one installation/removal tool.	Off White	1	20
PSL-DCPLR-GR*	Package of ten recessed RJ45 plug lock-in devices and one installation/removal tool.	Green	1	20
PSL-DCPLR-OR*	Package of ten recessed RJ45 plug lock-in devices and one installation/removal tool.	Orange	1	0
PSL-DCPLR-IG*	Package of ten recessed RJ45 plug lock-in devices and one installation/removal tool.	International Gray	1	20

*Available in bulk packages of 100 devices and five removal tools. To order bulk package add -C to the suffix of part number. The RJ45 plug lock-in device may not be compatible with all jacks, overmolded cables, or *PanView*™ Cables.

Self-Laminating Cable Marker Holders for Large Cables or Cable Bundles

- Durable tag to mark a wide range of cables and cable bundles
- Can be used with printer generated labels or hand-written
- Attaches easily with *PANDUIT* intermediate or standard cross-section nylon cable ties or *PANDUIT*® *TAK-TY*® Hook & Loop Cable Ties
- Clear overlaminate protects legend
- Can be applied as a wrap-around marker (parallel to cable) or flag marker (45° or 90° to cable)
- Available in white, yellow, orange and gray
- Large label area provides ample room for complex labeling scheme



SLCT-WH



SLCT-OR

Part Number	Part Description	Width		Height		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm		
SLCT-WH	White, self-laminating cable marker holder, 25 tags/pkg.	3.00	76.20	1.31	33.30	1	4
SLCT-OR	Orange, self-laminating cable marker holder, 25 tags/pkg.	3.00	76.20	1.31	33.30	1	4
SLCT-YL	Yellow, self-laminating cable marker holder, 25 tags/pkg.	3.00	76.20	1.31	33.30	1	4
SLCT-IG	Gray, self-laminating cable marker holder, 25 tags/pkg.	3.00	76.20	1.31	33.30	1	4

Attach with *PANDUIT* Intermediate or Standard cross section cable ties.

Component Labels for Self-Laminating Cable Markers or Large Cables or Cable Bundles

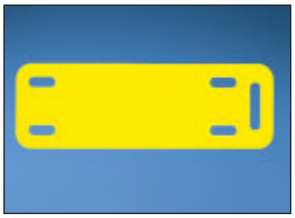


Suggested Label Solutions for TIA/EIA-606-A Compliance				
Cable Marker Holder Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
All SLCT Parts	**C200X100FJJ**	**C200X100YPT**	**C200X100FJC**	**T100X000VPC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Thermal Transfer Marker Plates

- Non-adhesive marker plates offer crisp, clear legends with superior legibility
- Attachable in a horizontal or vertical orientation
- Available in a variety of colors and sizes
- Use with *PANDUIT* RMR4BL resin thermal transfer ribbon



Part Number	Part Description	Width		Height		Print-On Area Width		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm		
M300X100Y6T	Yellow, thermal transfer marker plate.	3.00	76.20	1.00	25.40	1.80	45.70	1	4
M300X100Y7T	White, thermal transfer marker plate.	3.00	76.20	1.00	25.40	1.80	45.70	1	4
M300X050Y6T	Yellow, thermal transfer marker plate.	3.00	76.20	.50	12.70	1.80	45.70	1	4
M300X050Y7T	White, thermal transfer marker plate.	3.00	76.20	.50	12.70	1.80	45.70	1	4
M200X100Y6T	Yellow, thermal transfer marker plate.	2.00	50.80	1.00	25.40	.80	20.30	1	4
M200X100Y7T	White, thermal transfer marker plate.	2.00	50.80	1.00	25.40	.80	20.30	1	4
M200X050Y6T	Yellow, thermal transfer marker plate.	2.00	50.80	.50	12.70	1.07	27.30	1	4
M200X050Y7T	White, thermal transfer marker plate.	2.00	50.80	.50	12.70	1.07	27.30	1	4

Order number of marker plates required in multiples of Std. Pkg. Qty.

Patch Cord Color Bands

NEW!

- Removable band snaps on and off individual cables allowing the same patch cord to be used for different applications
- Can be installed next to each other allowing multiple color bands to be used on one cable, offering endless color coding options
- Internal grooves secure color bands in place on cable providing easy identification at the connection
- Available in 10 standard colors that match *PANDUIT* connectivity providing an aesthetically pleasing solution
- Compatible with all *PANDUIT* patch cords, existing and new installations can be color coded as networks change



Part Number	Part Description	Color	Std. Pkg. Qty.
PCBANDBU-Q	Snaps onto individual patch cable for additional color coding.	Blue	25
PCBANDWH-Q		White	25
PCBANDEI-Q		Electric Ivory	25
PCBANDIG-Q		International Gray	25
PCBANDOR-Q		Orange	25
PCBANDRD-Q		Red	25
PCBANDGR-Q		Green	25
PCBANDYL-Q		Yellow	25
PCBANDVL-Q		Violet	25

Patch cords available on pages B.13, B.16, B.24, B.33, B.36, E.10.

Cable Prep Tools

- Copper Wire Snipping Tool (CWST) cuts conductors flush for improved performance
- Adjustable Cable Jacket Stripping Tool (CJAST) strips outer jacket of 4-pair UTP and shielded copper cable



CWST



CJAST

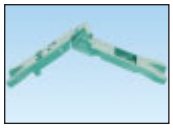
Part Number	Part Description	Std. Pkg. Qty.
CWST	Copper conductor snipping tool.	1
CJAST	Cable jacket stripping tool.	1

Module Termination Tools

- TGJT termination tool easily terminates all TG style jack modules, reducing installation time by 25%
- EGJT tool assists in terminating all enhanced *GIGA-TX*™ Style Jack Modules by ensuring conductors are fully terminated by utilizing smooth forward motion without impact on critical internal components for maximum reliability
- CGJT termination tool terminates all *MINI-COM*® *MINI-JACK*™ Jack Modules
- CJT-X tool assists in terminating all *MINI-COM*® *MINI-JACK*™ Jack Modules by ensuring conductors are fully terminated
- Punchdown base (AVPDB) available for terminating S-video and RCA punchdown modules



TGJT



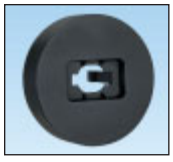
EGJT



CGJT



CJT-X



AVPDB

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
TGJT	TG termination tool easily terminates all TG style jack modules by cutting conductors flush and assembling wire cap and jack. Ideal for high volume installations.	1	—
EGJT	Terminates enhanced *GIGA-TX*™ TG Style Jack Modules.	1	50
CGJT	Terminates *GIGA-TX*™ TP Style Jack Modules.	1	50
CJT-X	Terminates *MINI-COM*® *MINI-JACK*™ Jack Modules.	10	50
AVPDB	Audio/video punchdown base used to assist in terminating *MINI-COM*® S-Video and RCA Punchdown Modules.	1	50

Patch cord and connector removal tools for high-density applications are available on page B.83.

Patch Cord Removal Tool

- Tool arms allow the installer to pass over cabling which interferes with accessibility
- Compatible with copper and fiber patch cords
- Optional flashlight kit (KPCRT1-FL) attaches to top of tool



PCRT1



KPCRT1-FL

Part Number	Part Description	Std. Pkg. Qty.
PCRT1	Easily removes copper and fiber patch cords in dense rack installations.	1
KPCRT1-FL	Flashlight kit for patch cord removal tool (PCRT1).	1

Modular Plug Termination Tools

- WPT-8 arranges all eight conductors in the proper sequence and provides proper gauge length for trimming conductors for MP588
- MPT5-8A required for modular plug termination



WPT-8



MPT5-8A

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Wire Prep Tool			
WPT-8	Separates and holds conductors in position prior to insertion into modular plug for termination. For use with *PAN-PLUG®* Modular Plug (MP588) only.	1	10
Modular Plug Installation Tools			
MPT5-8A	Crimp tool for *TX6™ PLUS* and *PAN-PLUG®* Modular Plugs.	1	—

A. System Overview
B. Copper Systems
C. Fiber Optic Systems
D. Power over Ethernet
E. Zone Cabling
F. Wireless
G. Outlets
H. Media Distribution
I. Physical Infrastructure Management
J. Overhead & Underfloor Routing
K. Surface Raceway
L. Cabinets, Racks & Cable Management
M. Grounding & Bonding
N. Industrial
O. Labeling & Identification
P. Cable Management Accessories
Q. Index

NOTES

Fiber Optic Systems

PANDUIT provides high bandwidth and mission critical physical infrastructures in data center, enterprise, and campus networks with comprehensive fiber optic systems that deliver high performance, reliability and scalability. By leveraging its technology leadership, innovative design and cable management expertise, *PANDUIT* fiber optic systems meet today's requirements and provide a migration path for tomorrow's applications. These systems accommodate multiple termination options, including pre-terminated, field-terminated, and field-spliced methods, to meet your specific cabling infrastructure requirements. *PANDUIT* fiber optic systems offer the industry's highest patch field density combined with superior fiber cable management to provide unmatched network design and layout flexibility.







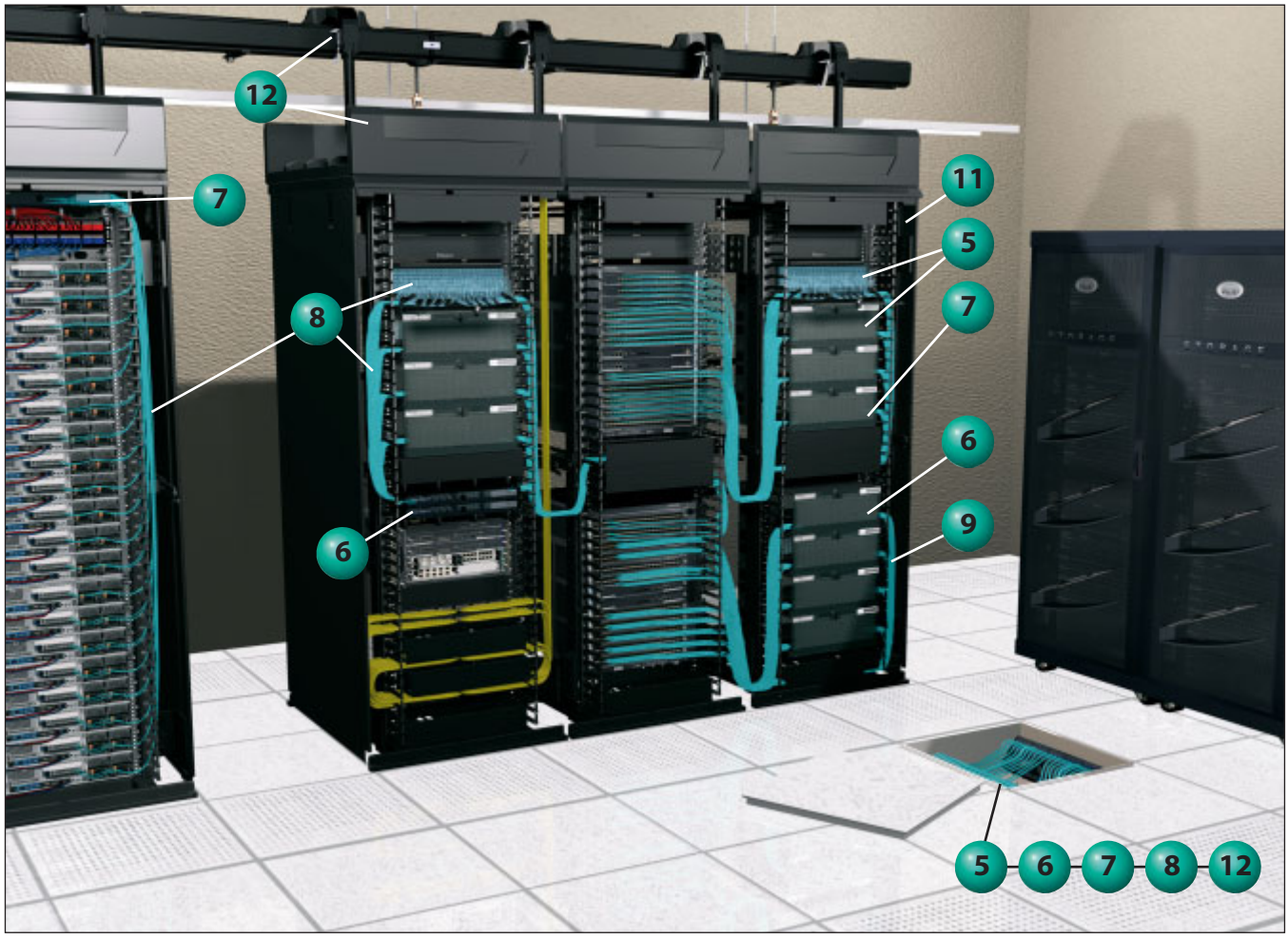




- **New Keyed LC System provides the strictest keying integrity available to prevent unauthorized mating and ensure network physical layer security**
- ***OPTI-CORE*® Fiber Optic Cable features the highest quality OM3, OM2, OM1 and OS1/OS2 fiber to support and extend infrastructure life cycle**
- ***OPTICAM*® Pre-Polished Connectors and field polish connectors offer connector and termination selections to meet network requirements and installation preferences**
- ***QUICKNET*™ Cabling System components are terminated, tested, and configured to fit the application, offering quick, plug-in deployment for trouble-free network performance**
- ***OPTICOM*® and *QUICKNET*™ Enclosures enable fast and easy field installation, and organize, manage, and protect fiber connections in compact, high-density applications**
- ***MINI-COM*® Adapter Modules and *OPTICOM*® Fiber Adapter Panels enable easy MACs to provide system modularity and scalability for easy upgrades and future network growth**
- ***OPTI-CORE*® Patch Cords and *QUICKNET*™ Cable Assemblies are designed to fit the application to minimize waste, optimize cable management, and speed deployment**

PANDUIT fiber optic systems include a full line of innovative, end-to-end, high performance products for all fiber optic applications. These advanced fiber optic systems are comprised of a broad selection of high performance fiber optic cable, connectors, adapter modules, adapter panels, cassettes, enclosures, patch cords, cable assemblies, cable distribution products and accessories for both singlemode and multimode applications. Together, these components provide complete solutions for today's high data rate Fibre Channel and Ethernet applications, and support future readiness for 40 Gb/s and 100 Gb/s data rates, maximizing physical infrastructure performance, modularity, and scalability.

Fiber Optic Systems Roadmaps



Data Center and SAN

1 ***Opti-Core**® Fiber Optic Cable (Indoor, Indoor/Outdoor, and Outside Plant)* **(pages C.4 – C.18)**



2 **Fiber Optic Connectors (LC, Keyed LC, SC, ST, FJ® Jack Modules and Plugs) (pages C.19 – C.35)**



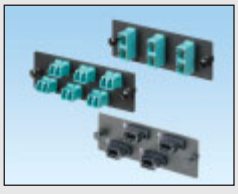
3 **Fiber Optic Adapters (LC, SC, and ST) (pages C.36 – C.39)**



4 ***Mini-Com**® Adapter Modules (MPO/MTP*, LC, Keyed LC, SC, ST, FC, MT-RJ) (pages C.39 – C.45)*



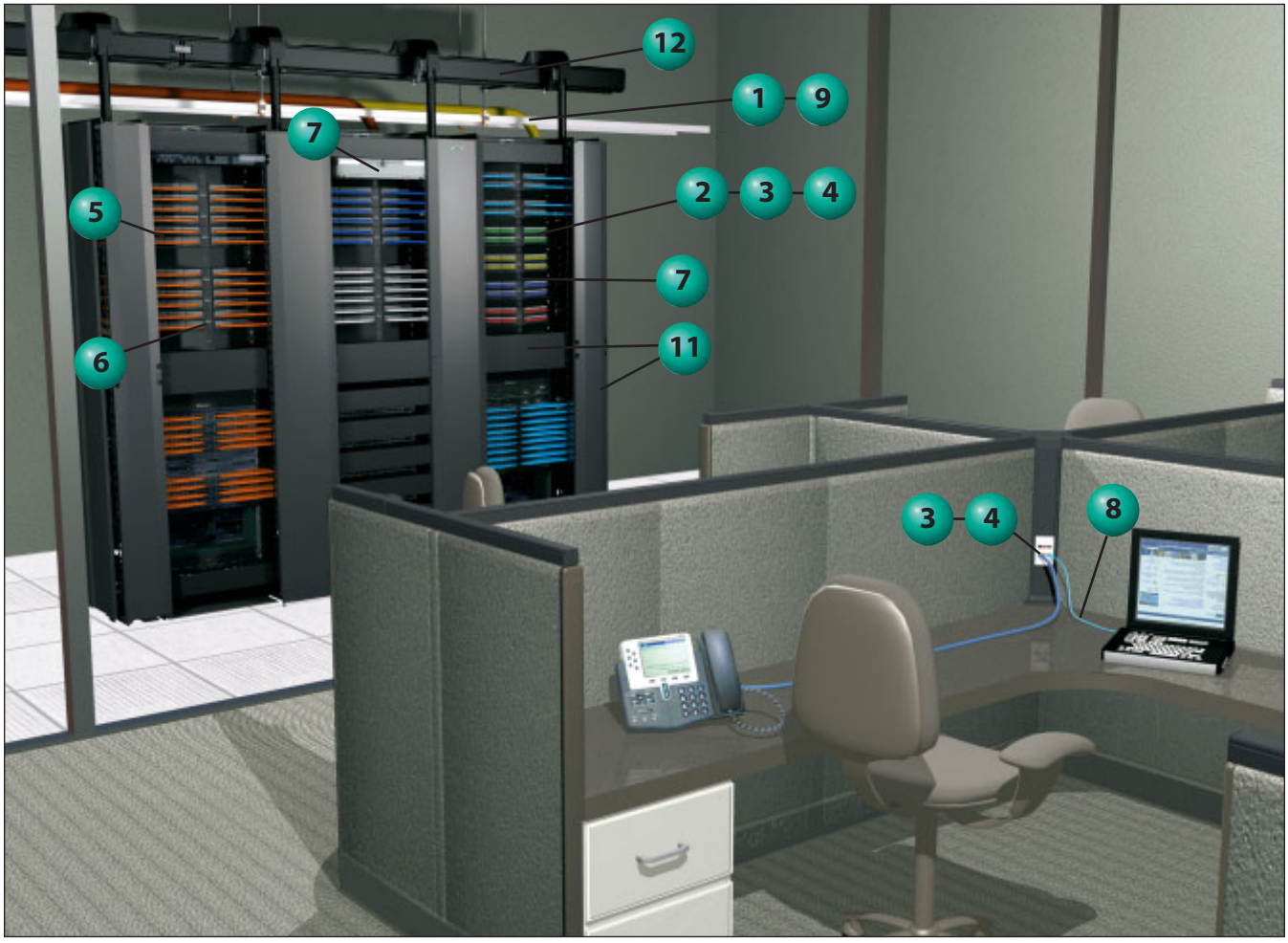
5 ***Opticom**® Fiber Adapter Panels (FAPs) (LC, Keyed LC, SC, ST, MT-RJ, FC) (pages C.45 – C.50)*



6 ***QuickNet**™ SFQ Series and QuickNet™ MTP* Cassettes (pages C.51 – C.58)*



*MTP is a registered trademark of US Conec Ltd.



Telecommunications Room and Work Area

7 ***OPTICOM®*** **and** ***QUICKNET™*** **Enclosures, Trays, Patch Panels and Accessories (pages C.59 – C.67)**



8 ***OPTI-CORE®*** **Fiber Optic Patch Cords, Pigtails, and Reference Cable Assemblies (pages C.68 – C.92)**



9 ***QUICKNET™*** **Hydra, Interconnect, MTP* and Traditional Trunk Cable Assemblies (pages C.93 – C.102)**



10 ***OPTICAM®***, ***OPTI-CRIMP®***, **and Field Polish Fiber Optic Termination Kits and Tools (pages C.103 – C.108)**



11 **Cabinets, Racks, and Cable Management (pages L.1– L.48)**



12 **Overhead and Underfloor Routing (pages J.1 – J.62)**



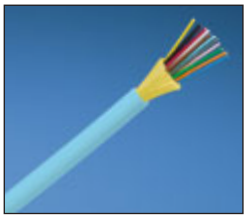


*MTP is a registered trademark of US Conec Ltd.

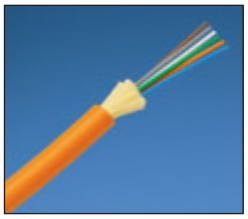
OPTI-CORE® Fiber Optic Distribution Cable

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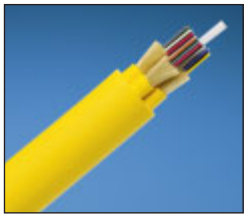
- Used in intrabuilding backbone, building backbone, and horizontal installations for riser (OFNR), plenum (OFNP), and general-purpose environments
- Available in 6, 12, and 24-fiber counts in a "single jacket" design, and in 36, 48, 72, 96 and 144-fiber counts in a "subunit" design
- Multimode (OM3, OM2, and OM1) and singlemode (OS1/OS2) fiber available
- Sheath markings provide positive identification, quality traceability, and length verification
- Cable design and flexible buffer tubes allow for quick breakout and ease of routing
- 900µm standards-based color coded buffer coating protects fibers during handling and allows for easy identification and stripping
- *OPTI-CORE*® *10GIG*™ OM3 Cable is designed to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters with an 850nm source per IEEE 802.3ae 10 GbE standard; backward compatible for use with all 50/125µm system requirements



FODRX12Y



FSDR606Y



FSDR948Y

Part Number	Part Description	Fiber Count*	Color
***OPTI-CORE*® Riser Distribution Cable (OFNR) – Multimode**			
FODRX06Y	6-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated distribution cable.	6	Aqua
FODRX12Y	12-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated distribution cable.	12	Aqua
FODRX24Y	24-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated distribution cable.	24	Aqua
FODRX36Y	36-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated distribution cable; six subunits of six fibers each.	36	Aqua
FODRX48Y	48-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated distribution cable; four subunits of twelve fibers each.	48	Aqua
FSDR506Y	6-fiber 50/125µm (OM2) multimode riser rated distribution cable.	6	Orange
FSDR512Y	12-fiber 50/125µm (OM2) multimode riser rated distribution cable.	12	Orange
FSDR524Y	24-fiber 50/125µm (OM2) multimode riser rated distribution cable.	24	Orange
FSDR536Y	36-fiber 50/125µm (OM2) multimode riser rated distribution cable; six subunits of six fibers each.	36	Orange
FSDR548Y	48-fiber 50/125µm (OM2) multimode riser rated distribution cable; four subunits of twelve fibers each.	48	Orange
FSDR606Y	6-fiber 62.5/125µm (OM1) multimode riser rated distribution cable.	6	Orange
FSDR612Y	12-fiber 62.5/125µm (OM1) multimode riser rated distribution cable.	12	Orange
FSDR624Y	24-fiber 62.5/125µm (OM1) multimode riser rated distribution cable.	24	Orange
FSDR636Y	36-fiber 62.5/125µm (OM1) multimode riser rated distribution cable; six subunits of six fibers each.	36	Orange
FSDR648Y	48-fiber 62.5/125µm (OM1) multimode riser rated distribution cable; four subunits of twelve fibers each.	48	Orange
***OPTI-CORE*® Riser Distribution Cable (OFNR) – Singlemode**			
FSDR906Y	6-fiber 9/125µm (OS1/OS2) singlemode riser rated distribution cable.	6	Yellow
FSDR912Y	12-fiber 9/125µm (OS1/OS2) singlemode riser rated distribution cable.	12	Yellow
FSDR924Y	24-fiber 9/125µm (OS1/OS2) singlemode riser rated distribution cable.	24	Yellow
FSDR936Y	36-fiber 9/125µm (OS1/OS2) singlemode riser rated distribution cable; six subunits of six fibers each.	36	Yellow
FSDR948Y	48-fiber 9/125µm (OS1/OS2) singlemode riser rated distribution cable; four subunits of twelve fibers each.	48	Yellow

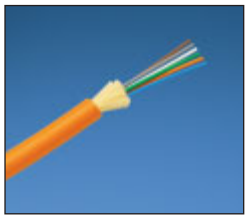
*For fiber counts greater than 48-fibers, replace 48 in part number with desired fiber count: 72, 96, or 1A (for 144-fibers).

Contact Customer Service for minimum order quantities, availability, and additional product configurations. Options include fiber counts, jacket colors, hybrid constructions (multiple fiber types within a single cable), flame ratings, subunit counts, armoring, premium optical performance grades and ribbonized constructions.

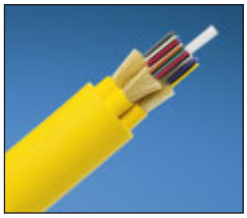
OPTI-CORE® Fiber Optic Distribution Cable (continued)



FODPX12Y



FSDP606Y



FSDP948Y

Part Number	Part Description	Fiber Count*	Color
OPTI-CORE® Plenum Distribution Cable (OFNP) – Multimode			
FODPX06Y	6-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated distribution cable.	6	Aqua
FODPX12Y	12-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated distribution cable.	12	Aqua
FODPX24Y	24-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated distribution cable.	24	Aqua
FODPX36Y	36-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated distribution cable; six subunits of six fibers each.	36	Aqua
FODPX48Y	48-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated distribution cable; four subunits of twelve fibers each.	48	Aqua
FSDP506Y	6-fiber 50/125µm (OM2) multimode plenum rated distribution cable.	6	Orange
FSDP512Y	12-fiber 50/125µm (OM2) multimode plenum rated distribution cable.	12	Orange
FSDP524Y	24-fiber 50/125µm (OM2) multimode plenum rated distribution cable.	24	Orange
FSDP536Y	36-fiber 50/125µm (OM2) multimode plenum rated distribution cable; six subunits of six fibers each.	36	Orange
FSDP548Y	48-fiber 50/125µm (OM2) multimode plenum rated distribution cable; four subunits of twelve fibers each.	48	Orange
FSDP606Y	6-fiber 62.5/125µm (OM1) multimode plenum rated distribution cable.	6	Orange
FSDP612Y	12-fiber 62.5/125µm (OM1) multimode plenum rated distribution cable.	12	Orange
FSDP624Y	24-fiber 62.5/125µm (OM1) multimode plenum rated distribution cable.	24	Orange
FSDP636Y	36-fiber 62.5/125µm (OM1) multimode plenum rated distribution cable; six subunits of six fibers each.	36	Orange
FSDP648Y	48-fiber 62.5/125µm (OM1) multimode plenum rated distribution cable; four subunits of twelve fibers each.	48	Orange
OPTI-CORE® Plenum Distribution Cable (OFNP) – Singlemode			
FSDP906Y	6-fiber 9/125µm (OS1/OS2) singlemode plenum rated distribution cable.	6	Yellow
FSDP912Y	12-fiber 9/125µm (OS1/OS2) singlemode plenum rated distribution cable.	12	Yellow
FSDP924Y	24-fiber 9/125µm (OS1/OS2) singlemode plenum rated distribution cable.	24	Yellow
FSDP936Y	36-fiber 9/125µm (OS1/OS2) singlemode plenum rated distribution cable; six subunits of six fibers each.	36	Yellow
FSDP948Y	48-fiber 9/125µm (OS1/OS2) singlemode plenum rated distribution cable; four subunits of twelve fibers each.	48	Yellow

*For fiber counts greater than 48-fibers, replace 48 in part number with desired fiber count: 72, 96, or 1A (for 144-fibers).

Contact Customer Service for minimum order quantities, availability, and additional product configurations. Options include fiber counts, jacket colors, hybrid constructions (multiple fiber types within a single cable), flame ratings, subunit counts, armoring, premium optical performance grades and ribbonized constructions.

Cable Labels for OPTI-CORE® Fiber Optic Distribution Cable



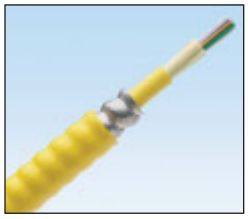
Suggested Label Solutions for TIA/EIA-606-A Compliance				
Fiber Count	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	PANTHER™ LS8E Hand-Held Printer Label	COUGAR™ LS9 Hand-Held Printer Label
6 12	S100X150YAJ	S100X150VATY	S100X150VAC	T100X000CBC-BK
24	S100X225YAJ	S100X225VATY	S100X225VAC	T100X000CBC-BK
36 48	S100X650YAJ	S100X650VATY	S100X650VAC	T100X000CBC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

OPTI-CORE® Fiber Optic Indoor Interlocking Armored Cable

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- Used in intrabuilding backbone, building backbone, and horizontal installations for riser (OFCR), plenum (OFCP), and harsh environments
- Interlocking aluminum armor eliminates the need for inner duct or conduit to provide a smaller crush resistant pathway for design flexibility and a lower installed cost
- Available in 6, 12, 24, 36, 48, 72, 96 and 144-fiber counts
- Multimode (OM3, OM2, and OM1) and singlemode (OS1/OS2) fiber availableoptimized) fiber available
- Sheath markings provide positive identification, quality traceability, and length verification
- 900µm standards-based color coded buffer coating protects fibers during handling and allows for easy identification and stripping
- Cable design and flexible buffer tubes allow for quick breakout and ease of routing
- *OPTI-CORE*® *10GIG*™ OM3 Cable is designed to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters with an 850nm source per IEEE 802.3ae 10 GbE standard; backward compatible for use with all 50/125µm system requirements



FSPR912Y

Part Number	Part Description	Fiber Count*	Color
***OPTI-CORE*® Riser Indoor Interlocking Armored Cable (OFCR) – Multimode**			
FOPRX06Y	6-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor interlocking armored cable.	6	Aqua
FOPRX12Y	12-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor interlocking armored cable.	12	Aqua
FOPRX24Y	24-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor interlocking armored cable.	24	Aqua
FOPRX36Y	36-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor interlocking armored cable.	36	Aqua
FOPRX48Y	48-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor interlocking armored cable.	48	Aqua
FSPR506Y	6-fiber 50/125µm (OM2) multimode riser rated indoor interlocking armored cable.	6	Orange
FSPR512Y	12-fiber 50/125µm (OM2) multimode riser rated indoor interlocking armored cable.	12	Orange
FSPR524Y	24-fiber 50/125µm (OM2) multimode riser rated indoor interlocking armored cable.	24	Orange
FSPR536Y	36-fiber 50/125µm (OM2) multimode riser rated indoor interlocking armored cable.	36	Orange
FSPR548Y	48-fiber 50/125µm (OM2) multimode riser rated indoor interlocking armored cable.	48	Orange
FSPR606Y	6-fiber 62.5/125µm (OM1) multimode riser rated indoor interlocking armored cable.	6	Orange
FSPR612Y	12-fiber 62.5/125µm (OM1) multimode riser rated indoor interlocking armored cable.	12	Orange
FSPR624Y	24-fiber 62.5/125µm (OM1) multimode riser rated indoor interlocking armored cable.	24	Orange
FSPR636Y	36-fiber 62.5/125µm (OM1) multimode riser rated indoor interlocking armored cable.	36	Orange
FSPR648Y	48-fiber 62.5/125µm (OM1) multimode riser rated indoor interlocking armored cable.	48	Orange
***OPTI-CORE*® Riser Indoor Interlocking Armored Cable (OFCR) – Singlemode**			
FSPR906Y	6-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor interlocking armored cable.	6	Yellow
FSPR912Y	12-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor interlocking armored cable.	12	Yellow
FSPR924Y	24-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor interlocking armored cable.	24	Yellow
FSPR936Y	36-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor interlocking armored cable.	36	Yellow
FSPR948Y	48-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor interlocking armored cable.	48	Yellow

*For fiber counts greater than 48-fibers, replace 48 in part number with desired fiber count: 72, 96, or 1A (for 144-fibers).

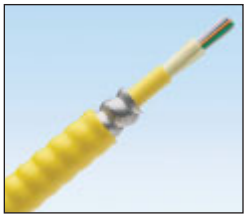
Contact Customer Service for minimum order quantities, availability, and additional product configurations. Options include fiber counts, jacket colors, hybrid constructions (multiple fiber types within a single cable), flame ratings, subunit counts, indoor/outdoor designs, premium optical performance grades and ribbonized constructions.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

OPTI-CORE® Fiber Optic Indoor Interlocking Armored Cable (continued)

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FSPP912Y

Part Number	Part Description	Fiber Count*	Color
OPTI-CORE® Plenum Indoor Interlocking Armored Cable (OFCP) – Multimode			
FOPPX06Y	6-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor interlocking armored cable.	6	Aqua
FOPPX12Y	12-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor interlocking armored cable.	12	Aqua
FOPPX24Y	24-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor interlocking armored cable.	24	Aqua
FOPPX36Y	36-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor interlocking armored cable.	36	Aqua
FOPPX48Y	48-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor interlocking armored cable.	48	Aqua
FSPP506Y	6-fiber 50/125µm (OM2) multimode plenum rated indoor interlocking armored cable.	6	Orange
FSPP512Y	12-fiber 50/125µm (OM2) multimode plenum rated indoor interlocking armored cable.	12	Orange
FSPP524Y	24-fiber 50/125µm (OM2) multimode plenum rated indoor interlocking armored cable.	24	Orange
FSPP536Y	36-fiber 50/125µm (OM2) multimode plenum rated indoor interlocking armored cable.	36	Orange
FSPP548Y	48-fiber 50/125µm (OM2) multimode plenum rated indoor interlocking armored cable.	48	Orange
FSPP606Y	6-fiber 62.5/125µm (OM1) multimode plenum rated indoor interlocking armored cable.	6	Orange
FSPP612Y	12-fiber 62.5/125µm (OM1) multimode plenum rated indoor interlocking armored cable.	12	Orange
FSPP624Y	24-fiber 62.5/125µm (OM1) multimode plenum rated indoor interlocking armored cable.	24	Orange
FSPP636Y	36-fiber 62.5/125µm (OM1) multimode plenum rated indoor interlocking armored cable.	36	Orange
FSPP648Y	48-fiber 62.5/125µm (OM1) multimode plenum rated indoor interlocking armored cable.	48	Orange
OPTI-CORE® Plenum Indoor Interlocking Armored Cable (OFCP) – Singlemode			
FSPP906Y	6-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor interlocking armored cable.	6	Yellow
FSPP912Y	12-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor interlocking armored cable.	12	Yellow
FSPP924Y	24-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor interlocking armored cable.	24	Yellow
FSPP936Y	36-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor interlocking armored cable.	36	Yellow
FSPP948Y	48-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor interlocking armored cable.	48	Yellow

*For fiber counts greater than 48-fibers, replace 48 in part number with desired fiber count: 72, 96, or 1A (for 144-fibers).

Contact Customer Service for minimum order quantities, availability, and additional product configurations. Options include fiber counts, jacket colors, hybrid constructions (multiple fiber types within a single cable), flame ratings, subunit counts, indoor/outdoor designs, premium optical performance grades and ribbonized constructions.

Cable Labels for OPTI-CORE® Fiber Optic Indoor Interlocking Armored Cable



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Fiber Count	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	PANTHER™ LS8E Hand-Held Printer Label	COUGAR™ LS9 Hand-Held Printer Label
6 12	S100X225YAJ	S100X225VATY	S100X225VAC	T100X000CBC-BK
24 36 48 72 96 144	S100X650YAJ	S100X650VATY	S100X650VAC	T100X000CBC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

OPTI-CORE® Gel-Free Fiber Optic Indoor/Outdoor All-Dielectric Cable

LISTED

- Allows installation using loose tube cable methods within buildings and outdoor environments for transitional aerial and duct applications, and in entrance facilities that require riser (OFNR) or plenum (OFNP) rated cable
- Eliminates the need for building entrance transition point
- All-dielectric cable construction requires no grounding or bonding
- UV resistant cable sheathing meets the light absorption requirement defined by Telcordia GR-20, Issue 2 to withstand harsh outdoor environmental demands
- Dry water-blocking technology allows rapid cable preparation and termination for lower termination costs and time (no messy gel required)
- Available in 6 and 12-fiber counts in "central loose tube" design, and in 24, 36, 48, 72, 96 and 144-fiber counts in a "stranded loose tube" design
- Multimode (OM3, OM2, and OM1) and singlemode (OS1/OS2) fiber available
- Sheath markings provide positive identification, quality traceability, and length verification
- 250µm buffer coating protects fibers during handling and allows for ease of stripping
- *OPTI-CORE*® *10GIG*™ OM3 Cable is designed to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters with an 850nm source per IEEE 802.3ae 10 GbE standard; backward compatible for use with all 50/125µm system requirements



FONRX24Y



FSCR606Y

Part Number	Part Description	Fiber Count*	Color
***OPTI-CORE*® Gel-Free Riser Indoor/Outdoor All-Dielectric Cable (OFNR) – Multimode**			
FOCRX06Y	6-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor/outdoor central cable.	6	Black
FOCRX12Y	12-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor/outdoor central cable.	12	Black
FONRX24Y	24-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor/outdoor stranded cable.	24	Black
FONRX36Y	36-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor/outdoor stranded cable.	36	Black
FONRX48Y	48-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor/outdoor stranded cable.	48	Black
FSCR506Y	6-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor central cable.	6	Black
FSCR512Y	12-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor central cable.	12	Black
FSNR524Y	24-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor stranded cable.	24	Black
FSNR536Y	36-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor stranded cable.	36	Black
FSNR548Y	48-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor stranded cable.	48	Black
FSCR606Y	6-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor central cable.	6	Black
FSCR612Y	12-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor central cable.	12	Black
FSNR624Y	24-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor stranded cable.	24	Black
FSNR636Y	36-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor stranded cable.	36	Black
FSNR648Y	48-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor stranded cable.	48	Black
***OPTI-CORE*® Gel-Free Riser Indoor/Outdoor All-Dielectric Cable (OFNR) – Singlemode**			
FSCR906Y	6-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor central cable.	6	Black
FSCR912Y	12-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor central cable.	12	Black
FSNR924Y	24-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor stranded cable.	24	Black
FSNR936Y	36-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor stranded cable.	36	Black
FSNR948Y	48-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor stranded cable.	48	Black

*For fiber counts greater than 48-fibers, replace 48 in part number with desired fiber count: 72, 96, or 1A (for 144-fibers).

Contact Customer Service for minimum order quantities, availability, and additional product configurations. Options include fiber counts, jacket colors, hybrid constructions (multiple fiber types within a single cable), flame ratings, subunit counts, armoring, premium optical performance grades and ribbonized constructions.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

OPTI-CORE® Gel-Free Fiber Optic Indoor/Outdoor All-Dielectric Cable (continued)



FONPX24Y



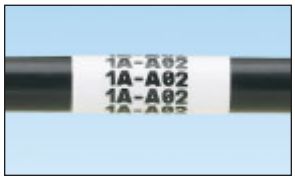
FSCP606Y

Part Number	Part Description	Fiber Count*	Color
***OPTI-CORE*® Gel-Free Plenum Indoor/Outdoor All-Dielectric Cable (OFNP) – Multimode**			
FOCPX06Y	6-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor/outdoor central cable.	6	Aqua
FOCPX12Y	12-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor/outdoor central cable.	12	Aqua
FONPX24Y	24-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor/outdoor stranded cable.	24	Aqua
FONPX36Y	36-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor/outdoor stranded cable.	36	Aqua
FONPX48Y	48-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor/outdoor stranded cable.	48	Aqua
FSCP506Y	6-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor central cable.	6	Orange
FSCP512Y	12-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor central cable.	12	Orange
FSNP524Y	24-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor stranded cable.	24	Orange
FSNP536Y	36-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor stranded cable.	36	Orange
FSNP548Y	48-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor stranded cable.	48	Orange
FSCP606Y	6-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor central cable.	6	Orange
FSCP612Y	12-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor central cable.	12	Orange
FSNP624Y	24-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor stranded cable.	24	Orange
FSNP636Y	36-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor stranded cable.	36	Orange
FSNP648Y	48-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor stranded cable.	48	Orange
***OPTI-CORE*® Gel-Free Plenum Indoor/Outdoor All-Dielectric Cable (OFNP) – Singlemode**			
FSCP906Y	6-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor central cable.	6	Yellow
FSCP912Y	12-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor central cable.	12	Yellow
FSNP924Y	24-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor stranded cable.	24	Yellow
FSNP936Y	36-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor stranded cable.	36	Yellow
FSNP948Y	48-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor stranded cable.	48	Yellow

*For fiber counts greater than 48-fibers, replace 48 in part number with desired fiber count: 72, 96, or 1A (for 144-fibers).

Contact Customer Service for minimum order quantities, availability, and additional product configurations. Options include fiber counts, jacket colors, hybrid constructions (multiple fiber types within a single cable), flame ratings, subunit counts, armoring, premium optical performance grades and ribbonized constructions.

Cable Labels for *OPTI-CORE*® Gel-Free Fiber Optic Indoor/Outdoor All-Dielectric Cable



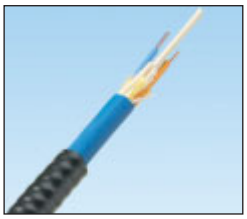
Suggested Label Solutions for TIA/EIA-606-A Compliance				
Fiber Count	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
6 12 24 36 48 72 96 144	**S100X225YAJ**	**S100X225VATY**	**S100X225VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

OPTI-CORE® Gel-Free Fiber Optic Indoor/Outdoor Interlocking Armored Cable

UL LISTED

- Allows installation using loose tube cable methods within buildings and outdoor environments for transitional aerial and duct applications, and in entrance facilities that require riser (OFCR) or plenum (OFCP) rated cable
- Eliminates the need for building entrance transition point
- Interlocking aluminum armor eliminates the need for inner duct or conduit to provide a smaller crush resistant pathway for design flexibility and a lower installed cost
- UV resistant cable sheathing meets the light absorption requirement defined by Telcordia GR-20, Issue 2 to withstand harsh outdoor environmental demands
- Dry water-blocking technology allows rapid cable preparation and termination for lower termination costs and time (no messy gel required)
- Available in 6 and 12-fiber counts in "central loose tube" design, and in 24, 36, 48, 72, 96 and 144-fiber counts in a "stranded loose tube" design
- Multimode (OM3, OM2, and OM1) and singlemode (OS1/OS2) fiber available
- Sheath markings provide positive identification, quality traceability, and length verification
- 250µm buffer coating protects fibers during handling and allows for ease of stripping
- *OPTI-CORE*® *10GIG*™ OM3 Cable is designed to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters with an 850nm source per IEEE 802.3ae 10 GbE standard; backward compatible for use with all 50/125µm system requirements



FOMRX24Y



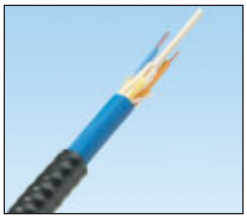
FSGR606Y

Part Number	Part Description	Fiber Count*	Color
***OPTI-CORE*® Gel-Free Riser Indoor/Outdoor Interlocking Armored Cable (OFCR) – Multimode**			
FOGRX06Y	6-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor/outdoor interlocking armored central cable.	6	Black
FOGRX12Y	12-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor/outdoor interlocking armored central cable.	12	Black
FOMRX24Y	24-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor/outdoor interlocking armored stranded cable.	24	Black
FOMRX36Y	36-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor/outdoor interlocking armored stranded cable.	36	Black
FOMRX48Y	48-fiber *10GIG*™ 50/125µm (OM3) multimode riser rated indoor/outdoor interlocking armored stranded cable.	48	Black
FSGR506Y	6-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor interlocking armored central cable.	6	Black
FSGR512Y	12-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor interlocking armored central cable.	12	Black
FSMR524Y	24-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor interlocking armored stranded cable.	24	Black
FSMR536Y	36-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor interlocking armored stranded cable.	36	Black
FSMR548Y	48-fiber 50/125µm (OM2) multimode riser rated indoor/outdoor interlocking armored stranded cable.	48	Black
FSGR606Y	6-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor interlocking armored central cable.	6	Black
FSGR612Y	12-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor interlocking armored central cable.	12	Black
FSMR624Y	24-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor interlocking armored stranded cable.	24	Black
FSMR636Y	36-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor interlocking armored stranded cable.	36	Black
FSMR648Y	48-fiber 62.5/125µm (OM1) multimode riser rated indoor/outdoor interlocking armored stranded cable.	48	Black
***OPTI-CORE*® Gel-Free Riser Indoor/Outdoor Interlocking Armored Cable (OFCR) – Singlemode**			
FSGR906Y	6-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor interlocking armored central cable.	6	Black
FSGR912Y	12-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor interlocking armored central cable.	12	Black
FSMR924Y	24-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor interlocking armored stranded cable.	24	Black
FSMR936Y	36-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor interlocking armored stranded cable.	36	Black
FSMR948Y	48-fiber 9/125µm (OS1/OS2) singlemode riser rated indoor/outdoor interlocking armored stranded cable.	48	Black

*For fiber counts greater than 48-fibers, replace 48 in part number with desired fiber count: 72, 96, or 1A (for 144-fibers). Contact Customer Service for minimum order quantities, availability, and additional product configurations. Options include fiber counts, jacket colors, hybrid constructions (multiple fiber types within a single cable), flame ratings, subunit counts, premium optical performance grades and ribbonized constructions.

Table continues on page C.12

OPTI-CORE® Gel-Free Fiber Optic Indoor/Outdoor Interlocking Armored Cable (continued)



FOMPX24Y

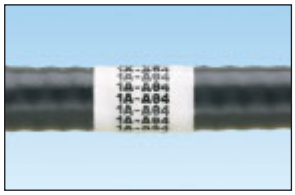


FSGP606Y

Part Number	Part Description	Fiber Count*	Color
***OPTI-CORE*® Gel-Free Plenum Indoor/Outdoor Interlocking Armored Cable (OFCP) – Multimode**			
FOGPX06Y	6-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor/outdoor interlocking armored central cable.	6	Aqua
FOGPX12Y	12-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor/outdoor interlocking armored central cable.	12	Aqua
FOMPX24Y	24-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor/outdoor interlocking armored stranded cable.	24	Aqua
FOMPX36Y	36-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor/outdoor interlocking armored stranded cable.	36	Aqua
FOMPX48Y	48-fiber *10GIG*™ 50/125µm (OM3) multimode plenum rated indoor/outdoor interlocking armored stranded cable.	48	Aqua
FSGP506Y	6-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor interlocking armored central cable.	6	Orange
FSGP512Y	12-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor interlocking armored central cable.	12	Orange
FSMP524Y	24-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor interlocking armored stranded cable.	24	Orange
FSMP536Y	36-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor interlocking armored stranded cable.	36	Orange
FSMP548Y	48-fiber 50/125µm (OM2) multimode plenum rated indoor/outdoor interlocking armored stranded cable.	48	Orange
FSGP606Y	6-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor interlocking armored central cable.	6	Orange
FSGP612Y	12-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor interlocking armored central cable.	12	Orange
FSMP624Y	24-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor interlocking armored stranded cable.	24	Orange
FSMP636Y	36-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor interlocking armored stranded cable.	36	Orange
FSMP648Y	48-fiber 62.5/125µm (OM1) multimode plenum rated indoor/outdoor interlocking armored stranded cable.	48	Orange
***OPTI-CORE*® Gel-Free Plenum Indoor/Outdoor Interlocking Armored Cable (OFCP) – Singlemode**			
FSGP906Y	6-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor interlocking armored central cable.	6	Yellow
FSGP912Y	12-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor interlocking armored central cable.	12	Yellow
FSMP924Y	24-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor interlocking armored stranded cable.	24	Yellow
FSMP936Y	36-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor interlocking armored stranded cable.	36	Yellow
FSMP948Y	48-fiber 9/125µm (OS1/OS2) singlemode plenum rated indoor/outdoor interlocking armored stranded cable.	48	Yellow

*For fiber counts greater than 48-fibers, replace 48 in part number with desired fiber count: 72, 96, or 1A (for 144-fibers). Contact Customer Service for minimum order quantities, availability, and additional product configurations. Options include fiber counts, jacket colors, hybrid constructions (multiple fiber types within a single cable), flame ratings, subunit counts, premium optical performance grades and ribbonized constructions.

Cable Labels for *OPTI-CORE*® Gel-Free Fiber Optic Indoor/Outdoor Interlocking Armored Cable



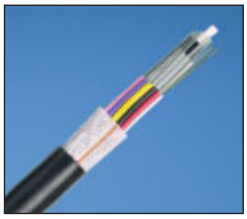
Suggested Label Solutions for TIA/EIA-606-A Compliance				
Fiber Count	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
6 12	S100X225YAJ	S100X225VATY	S100X225VAC	T100X000CBC-BK
24 36 48 72 96 144	S100X400YAJ	S100X400VATY	S100X400VAC	T100X000CBC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

OPTI-CORE® Gel-Free Fiber Optic Outside Plant All-Dielectric Cable

LISTED

- Allows installation using loose tube cable methods for aerial and duct applications
- Gel-free design with water swellable tape provides dry water blocking
- All-dielectric construction provides a non-metallic design that eliminates the need to bond or ground for aerial or duct applications, allowing easy access to cable for lower installation costs
- UV resistant cable sheathing protects the cable and meets or exceeds the performance requirements of Telcordia GR-20, Issue 2 and ICEA 640 to withstand harsh outdoor environmental demands
- Tested in accordance with relevant EIA-455 series FOTPs for fiber optic cables
- Complies with RUS 7 CFR 1755.900 requirements for fiber optic service entrance cables
- Available in 6, 12, 24, 36, 48, 72, 96 and 144-fiber counts as a "stranded loose tube" design
- Medium density polyethylene jacket provides low friction installation
- Multimode (OM3, OM2, and OM1) and singlemode (OS1/OS2) fiber available
- Sheath markings provide positive identification, quality traceability, and length verification
- 250µm buffer coating protects fibers during handling and allows for ease of stripping
- *OPTI-CORE® 10GIG™* OM3 Cable is designed to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters with an 850nm source per IEEE 802.3ae 10 GbE standard; backward compatible for use with all 50/125µm system requirements

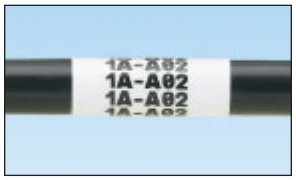


Part Number	Part Description	Fiber Count*	Color
OPTI-CORE® Gel-Free Outside Plant All-Dielectric Cable – Multimode			
FOTNX06	6-fiber *10GIG™* 50/125µm (OM3) multimode outside plant stranded cable.	6	Black
FOTNX12	12-fiber *10GIG™* 50/125µm (OM3) multimode outside plant stranded cable.	12	Black
FOTNX24	24-fiber *10GIG™* 50/125µm (OM3) multimode outside plant stranded cable.	24	Black
FOTNX36	36-fiber *10GIG™* 50/125µm (OM3) multimode outside plant stranded cable.	36	Black
FOTNX48	48-fiber *10GIG™* 50/125µm (OM3) multimode outside plant stranded cable.	48	Black
FSTN506	6-fiber 50/125µm (OM2) multimode outside plant stranded cable.	6	Black
FSTN512	12-fiber 50/125µm (OM2) multimode outside plant stranded cable.	12	Black
FSTN524	24-fiber 50/125µm (OM2) multimode outside plant stranded cable.	24	Black
FSTN536	36-fiber 50/125µm (OM2) multimode outside plant stranded cable.	36	Black
FSTN548	48-fiber 50/125µm (OM2) multimode outside plant stranded cable.	48	Black
FSTN606	6-fiber 62.5/125µm (OM1) multimode outside plant stranded cable.	6	Black
FSTN612	12-fiber 62.5/125µm (OM1) multimode outside plant stranded cable.	12	Black
FSTN624	24-fiber 62.5/125µm (OM1) multimode outside plant stranded cable.	24	Black
FSTN636	36-fiber 62.5/125µm (OM1) multimode outside plant stranded cable.	36	Black
FSTN648	48-fiber 62.5/125µm (OM1) multimode outside plant stranded cable.	48	Black
OPTI-CORE® Gel-Free Outside Plant All-Dielectric Cable – Singlemode			
FSTN906	6-fiber 9/125µm (OS1/OS2) singlemode outside plant stranded cable.	6	Black
FSTN912	12-fiber 9/125µm (OS1/OS2) singlemode outside plant stranded cable.	12	Black
FSTN924	24-fiber 9/125µm (OS1/OS2) singlemode outside plant stranded cable.	24	Black
FSTN936	36-fiber 9/125µm (OS1/OS2) singlemode outside plant stranded cable.	36	Black
FSTN948	48-fiber 9/125µm (OS1/OS2) singlemode outside plant stranded cable.	48	Black

*For fiber counts greater than 48-fibers, replace 48 in part number with desired fiber count: 72, 96, or 1A (for 144-fibers).
Contact Customer Service for minimum order quantities, availability, and additional product configurations. Options include fiber counts, hybrid constructions (multiple fiber types within a single cable), central tube construction, armoring, premium optical performance grades and ribbonized constructions.

Order number of pieces required, in multiples of Standard Package Quantity. Prime items appear in **BOLD**.

Cable Labels for *OPTI-CORE*® Gel-Free Fiber Optic Outside Plant All-Dielectric Cable



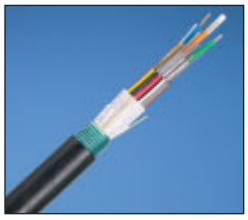
Suggested Label Solutions for TIA/EIA-606-A Compliance				
Fiber Count	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
6 12 24 36 48	S100X225YAJ	S100X225VATY	S100X225VAC	T100X000CBC-BK
72 96 144	S100X400YAJ	S100X400VATY	S100X400VAC	T100X000CBC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

OPTI-CORE® Gel-Free Fiber Optic Outside Plant Armored Cable

UL LISTED

- Allows installation using loose tube cable methods for aerial, duct, and direct burial applications
- Gel-free design with water swellable tape provides dry water blocking
- Corrugated steel armor provides superior crush resistance for extended durability in direct burial applications
- UV resistant cable sheathing protects the cable and meets or exceeds the performance requirements of Telcordia GR-20, Issue 2 and ICEA 640 to withstand harsh outdoor environmental demands
- Tested in accordance with relevant EIA-455 series FOTPs for fiber optic cables
- Complies with RUS 7 CFR 1755.900 requirements for fiber optic service entrance cables
- Available in 6, 12, 24, 36, 48, 72, 96 and 144-fiber counts as a "stranded loose tube" design
- Medium density polyethylene jacket provides low friction installation and excellent protection from environmental hazards to extend protection and reliability
- Multimode (OM3, OM2, and OM1) and singlemode (OS1/OS2) fiber available
- Sheath markings provide positive identification, quality traceability, and length verification
- 250µm buffer coating protects fibers during handling and allows for ease of stripping
- *OPTI-CORE® 10GIG™* OM3 Cable is designed to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters with an 850nm source per IEEE 802.3ae 10 GbE standard; backward compatible for use with all 50/125µm system requirements



Part Number	Part Description	Fiber Count*	Color
OPTI-CORE® Gel-Free Outside Plant Armored Cable – Multimode			
FOWNX06	6-fiber *10GIG™* 50/125µm (OM3) multimode outside plant armored stranded cable.	6	Black
FOWNX12	12-fiber *10GIG™* 50/125µm (OM3) multimode outside plant armored stranded cable.	12	Black
FOWNX24	24-fiber *10GIG™* 50/125µm (OM3) multimode outside plant armored stranded cable.	24	Black
FOWNX36	36-fiber *10GIG™* 50/125µm (OM3) multimode outside plant armored stranded cable.	36	Black
FOWNX48	48-fiber *10GIG™* 50/125µm (OM3) multimode outside plant armored stranded cable.	48	Black
FSWN506	6-fiber 50/125µm (OM2) multimode outside plant armored stranded cable.	6	Black
FSWN512	12-fiber 50/125µm (OM2) multimode outside plant armored stranded cable.	12	Black
FSWN524	24-fiber 50/125µm (OM2) multimode outside plant armored stranded cable.	24	Black
FSWN536	36-fiber 50/125µm (OM2) multimode outside plant armored stranded cable.	36	Black
FSWN548	48-fiber 50/125µm (OM2) multimode outside plant armored stranded cable.	48	Black
FSWN606	6-fiber 62.5/125µm (OM1) multimode outside plant armored stranded cable.	6	Black
FSWN612	12-fiber 62.5/125µm (OM1) multimode outside plant armored stranded cable.	12	Black
FSWN624	24-fiber 62.5/125µm (OM1) multimode outside plant armored stranded cable.	24	Black
FSWN636	36-fiber 62.5/125µm (OM1) multimode outside plant armored stranded cable.	36	Black
FSWN648	48-fiber 62.5/125µm (OM1) multimode outside plant armored stranded cable.	48	Black
OPTI-CORE® Gel-Free Outside Plant Armored Cable – Singlemode			
FSWN906	6-fiber 9/125µm (OS1/OS2) singlemode outside plant armored stranded cable.	6	Black
FSWN912	12-fiber 9/125µm (OS1/OS2) singlemode outside plant armored stranded cable.	12	Black
FSWN924	24-fiber 9/125µm (OS1/OS2) singlemode outside plant armored stranded cable.	24	Black
FSWN936	36-fiber 9/125µm (OS1/OS2) singlemode outside plant armored stranded cable.	36	Black
FSWN948	48-fiber 9/125µm (OS1/OS2) singlemode outside plant armored stranded cable.	48	Black

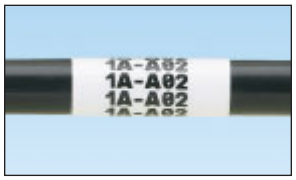
*For fiber counts greater than 48-fibers, replace 48 in part number with desired fiber count: 72, 96, or 1A (for 144-fibers).

Contact Customer Service for minimum order quantities, availability, and additional product configurations. Options include hybrid constructions (multiple fiber types within a single cable), subunit counts, armoring options, premium optical performance grades and ribbonized constructions.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Cable Labels for *OPTI-CORE*® Gel-Free Fiber Optic Outside Plant Armored Cable



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Fiber Count	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
6 12 24 36 48	S100X225YAJ	S100X225VATY	S100X225VAC	T100X000CBC-BK
72 96 144	S100X400YAJ	S100X400VATY	S100X400VAC	T100X000CBC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

OPTI-CORE® Fiber Optic Interconnect Cable

- Used in interconnect and horizontal installations for riser (OFNR), plenum (OFNP), and general-purpose environments
- Multimode (OM3, OM2, and OM1) and singlemode (OS1/OS2) fiber available
- Sheath markings provide positive identification, quality traceability, and length verification
- Colored buffers for ease of identification
- High quality buffering offers ease of stripping while maintaining optical performance
- Small diameter and flexible jackets allow for routing in tight spaces such as panels, cable trays, and fiber-to-the-desk (FTTD) applications
- Other diameters available to meet your application needs
- OPTI-CORE® 10GIG™ OM3 Cable is designed to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters with an 850nm source per IEEE 802.3ae 10 GbE standard; backward compatible for use with all 50/125µm system requirements



FOIRX02Y



FSIR602Y

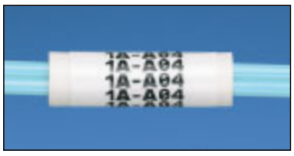


FSIP902Y

Part Number	Part Description	Fiber Count	Color
OPTI-CORE® Riser Interconnect Cable (OFNR) – Multimode			
FOIRX02Y	2-fiber 10GIG™ 50/125µm (OM3) multimode riser rated interconnect cable; 2.9mm dia., zip-cord.	2	Aqua
FSIR502Y	2-fiber 50/125µm (OM2) multimode riser rated interconnect cable; 2.9mm dia., zip-cord.	2	Orange
FSIR602Y	2-fiber 62.5/125µm (OM1) multimode riser rated interconnect cable; 2.9mm dia., zip-cord.	2	Orange
OPTI-CORE® Riser Interconnect Cable (OFNR) – Singlemode			
FSIR902Y	2-fiber 9/125µm (OS1/OS2) singlemode riser rated interconnect cable; 2.9mm dia., zip-cord.	2	Yellow
OPTI-CORE® Plenum Interconnect Cable (OFNP) – Multimode			
FOIPX02Y	2-fiber 10GIG™ 50/125µm (OM3) multimode plenum rated interconnect cable; 2.9mm dia., zip-cord.	2	Aqua
FSIP502Y	2-fiber 50/125µm (OM2) multimode plenum rated interconnect cable; 2.9mm dia., zip-cord.	2	Orange
FSIP602Y	2-fiber 62.5/125µm (OM1) multimode plenum rated interconnect cable; 2.9mm dia., zip-cord.	2	Orange
OPTI-CORE® Plenum Interconnect Cable (OFNP) – Singlemode			
FSIP902Y	2-fiber 9/125µm (OS1/OS2) singlemode plenum rated interconnect cable; 2.9mm dia., zip-cord.	2	Yellow

Contact Customer Service for minimum order quantities, availability, and additional product configurations. Options include diameters, jacket colors, flame ratings and premium optical performance grades.

Cable Labels for OPTI-CORE® Fiber Optic Interconnect Cable



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Fiber Count	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	**PANTHER™ LS8E Hand-Held Printer Label**	**COUGAR™ LS9 Hand-Held Printer Label**
2	**S100X220YAJ and NWSLC-7Y**	**S100X225VATY and NWSLC-7Y**	**S100X220VAC and NWSLC-7Y**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

PATENTED

LC *OPTICAM*® Fiber Optic Connectors – Pre-Polished Cam Termination

- TIA/EIA-604 FOCIS-10 compatible connectors
- Exceed TIA/EIA-568-B.3 requirements
- Connector backbone and boot colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Insertion loss: 0.3dB average (multimode and singlemode)
- Return loss: >26dB (*10GIG*™ multimode), >20dB (multimode), >50dB (singlemode)
- Spring-loaded "Senior" rear pivot latch LC connector
- Quick installation; provide field termination in less than half the time of field polish connectors
- Patented re-termination capability provides yield rates approaching 100%
- Factory pre-polished fiber endface eliminates time-consuming field polishing to reduce installation costs, labor, scrap and the number of tools required
- Cam activated fiber and buffer clamp mechanisms provide superior fiber and buffer retention – less sensitivity to fiber tensile loading
- *OPTICAM*® Termination Tool simplifies tooling and termination, and virtually eliminates operator error by providing visual indication of proper termination after the cam step has been completed
- Cable retention boot assemblies consistently provide higher than industry standard cable retention
- Non-optical disconnect maintains data transmission under tensile loads for jacketed cable
- Fiber cable size: accept 900µm tight-buffered fiber with included boot(s); accept 1.6mm – 2.0mm and 3.0mm jacketed cable with available *OPTICAM*® Cable Retention Boot Assemblies (ten per package)
- For 250µm coated fiber termination, use 250 micron fiber build-up tube kit or fan-out kits on pages C.35 – C.36
- Ferrule type: 1.25mm zirconia ceramic (highest durability for repeated matings)
- Use *OPTICAM*® Termination Kit (FCAMKIT) on page C.103



FLCDMCXAQY



FLCDMC5BLY



FLCSSCBUY



FMCBT2AQ-X



FLCCLIPBL-L

Part Number	Part Description	Color	Std. Pkg. Qty.*	Std. Ctn. Qty.
LC *OPTICAM*® *10GIG*™ OM3 50/125µm Multimode Fiber Optic Connectors				
FLCSMCXAQY	LC *OPTICAM*® *10GIG*™ 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Aqua	1	10
FLCDMCXAQY	LC *OPTICAM*® *10GIG*™ 50/125µm Multimode Duplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Aqua	1	10
LC *OPTICAM*® OM2 50/125µm Multimode Fiber Optic Connectors				
FLCSMC5BLY	LC *OPTICAM*® 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Black	1	10
FLCDMC5BLY	LC *OPTICAM*® 50/125µm Multimode Duplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Black	1	10
NEW! **LC *OPTICAM*® OM1 62.5/125µm Multimode Fiber Optic Connectors**				
FLCSMC6EIY	LC *OPTICAM*® 62.5/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Electric Ivory	1	10
FLCDMC6EIY	LC *OPTICAM*® 62.5/125µm Multimode Duplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Electric Ivory	1	10
LC *OPTICAM*® OS1/OS2 Singlemode Fiber Optic Connectors				
FLCSSCBUY	LC *OPTICAM*® Singlemode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Blue	1	10
FLCDSCBUY	LC *OPTICAM*® Singlemode Duplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Blue	1	10
***OPTICAM*® 1.6/2.0mm Cable Retention Boot Assemblies**				
FMCBT2AQ-X	*OPTICAM*® *10GIG*™ OM3 1.6/2.0mm Cable Retention Boot.	Aqua	10	100
FMCBT2BL-X	*OPTICAM*® OM2 Multimode 1.6/2.0mm Cable Retention Boot.	Black	10	100
NEW! **FMCBT2EI-X**	*OPTICAM*® OM1 Multimode 1.6/2.0mm Cable Retention Boot.	Electric Ivory	10	100
FSCBT2BU-X	*OPTICAM*® OS1/OS2 Singlemode 1.6/2.0mm Cable Retention Boot.	Blue	10	100
***OPTICAM*® 3.0mm Cable Retention Boot Assemblies**				
FMCBT3AQ-X	*OPTICAM*® *10GIG*™ OM3 3.0mm Cable Retention Boot.	Aqua	10	100
FMCBT3BL-X	*OPTICAM*® OM2 Multimode 3.0mm Cable Retention Boot.	Black	10	100
NEW! **FMCBT3EI-X**	*OPTICAM*® OM1 Multimode 3.0mm Cable Retention Boot.	Electric Ivory	10	100
FSCBT3BU-X	*OPTICAM*® OS1/OS2 Singlemode 3.0mm Cable Retention Boot.	Blue	10	100
LC *OPTICAM*® Duplex Clip				
FLCCLIPBL-L	LC *OPTICAM*® Duplex Clip for duplexing two simplex LC *OPTICAM*® Multimode or Singlemode Connectors.	Black	50	—

*Simplex connectors are available in 100 count bulk packages by adding -C to the part number.

NEW! PATENTED

Keyed LC *OPTICAM*® Fiber Optic Connectors – Pre-Polished Cam Termination

- Exceed TIA/EIA-568-B.3 requirements
- Insertion loss: 0.3dB average (multimode and singlemode)
- Return loss: >26dB (*10GIG*™ multimode), >20dB (multimode), >50dB (singlemode)
- Include color-specific keys with positive and negative keying features to visually and mechanically distinguish connections to prevent unauthorized mating with unlike keyed or non-keyed adapters
- Part of a complete Keyed LC System that includes *OPTI-CORE*® Patch Cords and Pigtails, *OPTICAM*® Pre-Polished Cam Connectors, *OPTICOM*® Fiber Adapter Panels (FAPs) and *MINI-COM*® Adapter Modules
- Translucent housing assembly is laser marked to identify fiber stub fiber type (9µm, 62.5, 50 or 50X)
- Spring-loaded "Senior" rear pivot latch LC connector
- Quick installation; provide field termination in less than half the time of field polish connectors
- Patented re-termination capability provides yield rates approaching 100%
- Factory pre-polished fiber endface eliminates time-consuming field polishing to reduce installation costs, labor, scrap and the number of tools required
- Cam activated fiber and buffer clamp mechanisms provide superior fiber and buffer retention – less sensitivity to fiber tensile loading
- *OPTICAM*® Termination Tool simplifies tooling and termination, and virtually eliminates operator error by providing visual indication of proper termination after the cam step has been completed
- Cable retention boot assemblies consistently provide higher than industry standard cable retention
- Non-optical disconnect maintains data transmission under tensile loads for jacketed cable
- Fiber cable size: accept 900µm tight-buffered fiber with included boot(s); accept 1.6mm – 2.0mm and 3.0mm jacketed cable with available *OPTICAM*® Cable Retention Boot Assemblies (ten per package)
- For 250µm coated fiber termination, use 250 micron fiber build-up tube kit or fan-out kits on pages C.35 – C.36
- Ferrule type: 1.25mm zirconia ceramic (highest durability for repeated matings)
- Use *OPTICAM*® Termination Kit (FCAMKIT) on page C.103



FLCSMC5ABL



FLCSMC5BRD



FLCSMC5CGR



FLCSMC5DYL



FLCSMC5EOR



FLCSMC5FDB

Part Number	Part Description	Key Type and Color	Std. Pkg. Qty.	Std. Ctn. Qty.
Keyed LC *OPTICAM*® *10GIG*™ OM3 50/125µm Multimode Simplex Fiber Optic Connectors*				
FLCSMCXABL	LC (keyed A – black) *OPTICAM*® *10GIG*™ 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed A – Black	1	10
FLCSMCXBRD	LC (keyed B – red) *OPTICAM*® *10GIG*™ 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed B – Red	1	10
FLCSMCXCGR	LC (keyed C – green) *OPTICAM*® *10GIG*™ 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed C – Green	1	10
FLCSMCXDYL	LC (keyed D – yellow) *OPTICAM*® *10GIG*™ 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed D – Yellow	1	10
FLCSMCXEOR	LC (keyed E – orange) *OPTICAM*® *10GIG*™ 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed E – Orange	1	10
FLCSMCXFDB	LC (keyed F – dark blue) *OPTICAM*® *10GIG*™ 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed F – Dark Blue	1	10
Keyed LC *OPTICAM*® OM2 50/125µm Multimode Simplex Fiber Optic Connectors*				
FLCSMC5ABL	LC (keyed A – black) *OPTICAM*® 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed A – Black	1	10
FLCSMC5BRD	LC (keyed B – red) *OPTICAM*® 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed B – Red	1	10
FLCSMC5CGR	LC (keyed C – green) *OPTICAM*® 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed C – Green	1	10
FLCSMC5DYL	LC (keyed D – yellow) *OPTICAM*® 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed D – Yellow	1	10
FLCSMC5EOR	LC (keyed E – orange) *OPTICAM*® 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed E – Orange	1	10
FLCSMC5FDB	LC (keyed F – dark blue) *OPTICAM*® 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed F – Dark Blue	1	10

*To order duplex connectors, replace the first S in the part number (FLCSSCABL) with a D (FLCDSCABL).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Keyed LC *OPTICAM*® Fiber Optic Connectors – Pre-Polished Cam Termination (continued)



FMCBT3BL-X



FLCCLIPBL-L

Part Number	Part Description	Key Type and Color	Std. Pkg. Qty.	Std. Ctn. Qty.
Keyed LC *OPTICAM*® OM1 62.5/125µm Multimode Simplex Fiber Optic Connectors*				
FLCSMC6ABL	LC (keyed A – black) *OPTICAM*® 62.5/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed A – Black	1	10
FLCSMC6BRD	LC (keyed B – red) *OPTICAM*® 62.5/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed B – Red	1	10
FLCSMC6CGR	LC (keyed C – green) *OPTICAM*® 62.5/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed C – Green	1	10
FLCSMC6DYL	LC (keyed D – yellow) *OPTICAM*® 62.5/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed D – Yellow	1	10
FLCSMC6EOR	LC (keyed E – orange) *OPTICAM*® 62.5/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed E – Orange	1	10
FLCSMC6FDB	LC (keyed F – dark blue) *OPTICAM*® 62.5/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed F – Dark Blue	1	10
Keyed LC *OPTICAM*® OS1/OS2 Singlemode Simplex Fiber Optic Connectors*				
FLCSSCABL	LC (keyed A – black) *OPTICAM*® Singlemode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed A – Black	1	10
FLCSSCBRD	LC (keyed B – red) *OPTICAM*® Singlemode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed B – Red	1	10
FLCSSCCGR	LC (keyed C – green) *OPTICAM*® Singlemode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed C – Green	1	10
FLCSSCDYL	LC (keyed D – yellow) *OPTICAM*® Singlemode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed D – Yellow	1	10
FLCSSCEOR	LC (keyed E – orange) *OPTICAM*® Singlemode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed E – Orange	1	10
FLCSSCFDB	LC (keyed F – dark blue) *OPTICAM*® Singlemode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Keyed F – Dark Blue	1	10
***OPTICAM*® 1.6/2.0mm Cable Retention Boot Assemblies**				
FMCBT2BL-X	*OPTICAM*® 1.6/2.0mm Cable Retention Boot.	Black	10	100
***OPTICAM*® 3.0mm Cable Retention Boot Assemblies**				
FMCBT3BL-X	*OPTICAM*® 3.0mm Cable Retention Boot.	Black	10	100
LC *OPTICAM*® Duplex Clip				
FLCCLIPBL-L	LC *OPTICAM*® Duplex Clip for duplexing two simplex LC *OPTICAM*® Multimode or Singlemode Connectors.	Black	50	—

*To order duplex connectors, replace the first S in the part number (FLCSSCABL) with a D (FLCDSCABL).

PATENTED SC *OPTICAM*® Fiber Optic Connectors – Pre-Polished Cam Termination

- TIA/EIA-604 FOCIS-3 compliant connectors
- Exceed TIA/EIA-568-B.3 requirements
- Connector backbone and boot colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Insertion loss: 0.3dB average (multimode and singlemode)
- Return loss: >26dB (*10GIG*™ multimode), >20dB (multimode), >50dB (singlemode)
- Quick installation; provide field termination in less than half the time of field polish connectors
- Patented re-termination capability provides yield rates approaching 100%
- Factory pre-polished fiber endface eliminates time-consuming field polishing to reduce installation costs, labor, scrap and the number of tools required
- Cam activated fiber and buffer clamp mechanisms provide superior fiber and buffer retention – less sensitivity to fiber tensile loading
- *OPTICAM*® Termination Tool simplifies tooling and termination, and virtually eliminates operator error by providing visual indication of proper termination after the cam step has been completed
- Cable retention boot assemblies consistently provide higher than industry standard cable retention
- Non-optical disconnect maintains data transmission under tensile loads for jacketed cable
- Fiber cable size: accept 900µm tight-buffered fiber with included boot(s); accept 1.6mm – 2.0mm and 3.0mm jacketed cable with available *OPTICAM*® Cable Retention Boot Assemblies (ten per package)
- For 250µm coated fiber termination, use 250 micron fiber build-up tube kit or fan-out kits on pages C.35 – C.36
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings) or composite to meet a variety of application requirements
- Use *OPTICAM*® Termination Kit (FCAMKIT) on page C.103



FSCDMCXAQ



FSCDMC5BL



FSCSCBU



FMCBT3BL-X



FSCCLIP-L

Part Number	Part Description	Color	Std. Pkg. Qty.*	Std. Ctn. Qty.
SC *OPTICAM*® *10GIG*™ OM3 50/125µm Multimode Fiber Optic Connectors				
FSCMCXAQ	SC *OPTICAM*® *10GIG*™ 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Aqua	1	10
FSCDMCXAQ	SC *OPTICAM*® *10GIG*™ 50/125µm Multimode Duplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Aqua	1	10
SC *OPTICAM*® OM2 50/125µm Multimode Fiber Optic Connectors				
FSCMC5BL	SC *OPTICAM*® 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Black	1	10
NEW! **FSCMPC5BL**	SC *OPTICAM*® Composite Ferrule 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Black	1	10
FSCDMC5BL	SC *OPTICAM*® 50/125µm Multimode Duplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Black	1	10
NEW! **SC *OPTICAM*® OM1 62.5/125µm Multimode Fiber Optic Connectors**				
FSCMC6EI	SC *OPTICAM*® 62.5/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Electric Ivory	1	10
FSCMPC6EI	SC *OPTICAM*® Composite Ferrule 62.5/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Electric Ivory	1	10
FSCDMC6EI	SC *OPTICAM*® 62.5/125µm Multimode Duplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Electric Ivory	1	10
SC *OPTICAM*® OS1/OS2 Singlemode Fiber Optic Connectors				
FSCSCBU	SC *OPTICAM*® Singlemode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Blue	1	10
***OPTICAM*® 1.6/2.0mm Cable Retention Boot Assemblies**				
FMCBT2AQ-X	*OPTICAM*® *10GIG*™ OM3 1.6/2.0mm Cable Retention Boot.	Aqua	10	100
FMCBT2BL-X	*OPTICAM*® OM2 Multimode 1.6/2.0mm Cable Retention Boot.	Black	10	100
NEW! **FMCBT2EI-X**	*OPTICAM*® OM1 Multimode 1.6/2.0mm Cable Retention Boot.	Electric Ivory	10	100
FSCBT2BU-X	*OPTICAM*® OS1/OS2 Singlemode 1.6/2.0mm Cable Retention Boot.	Blue	10	100
***OPTICAM*® 3.0mm Cable Retention Boot Assemblies**				
FMCBT3AQ-X	*OPTICAM*® *10GIG*™ OM3 3.0mm Cable Retention Boot.	Aqua	10	100
FMCBT3BL-X	*OPTICAM*® OM2 Multimode 3.0mm Cable Retention Boot.	Black	10	100
NEW! **FMCBT3EI-X**	*OPTICAM*® OM1 Multimode 3.0mm Cable Retention Boot.	Electric Ivory	10	100
FSCBT3BU-X	*OPTICAM*® OS1/OS2 Singlemode 3.0mm Cable Retention Boot.	Blue	10	100
SC Duplex Clip				
FSCCLIP-L	SC duplex clip for duplexing two simplex *PANDUIT* SC multimode or singlemode connectors.	Black	50	—

*Simplex connectors are available in 100 count bulk packages by adding -C to the part number.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

PATENTED ST *OPTICAM*® Fiber Optic Connectors – Pre-Polished Cam Termination

- TIA/EIA-604 FOCIS-2 compliant connectors
- Exceed TIA/EIA-568-B.3 requirements
- Connector backbone and boot colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Insertion loss: 0.3dB average (multimode and singlemode)
- Return loss: >26dB (*10GIG*™ multimode), >20dB (multimode), >50dB (singlemode)
- Quick installation; provide field termination in less than half the time of field polish connectors
- Patented re-termination capability provides yield rates approaching 100%
- Factory pre-polished fiber endface eliminates time-consuming field polishing to reduce installation costs, labor, scrap and the number of tools required
- Cam activated fiber and buffer clamp mechanisms provide superior fiber and buffer retention – less sensitivity to fiber tensile loading
- *OPTICAM*® Termination Tool simplifies tooling and termination, and virtually eliminates operator error by providing visual indication of proper termination after the cam step has been completed
- Cable retention boot assemblies consistently provide higher than industry standard cable retention
- Fiber cable size: accept 900µm tight-buffered fiber with included boot(s); accept 1.6mm – 2.0mm and 3.0mm jacketed cable with available *OPTICAM*® Cable Retention Boot Assemblies (ten per package)
- For 250µm coated fiber termination, use 250 micron fiber build-up tube kit or fan-out kits on pages C.35 – C.36
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings) or composite to meet a variety of application requirements
- Use *OPTICAM*® Termination Kit (FCAMKIT) on page C.103



FSTMCXAQ



FSTMC5BL



FSTSCBU



FSCBT2BU-X

Part Number	Part Description	Color	Std. Pkg. Qty.*	Std. Ctn. Qty.
ST *OPTICAM*® *10GIG*™ OM3 50/125µm Multimode Fiber Optic Connectors				
FSTMCXAQ	ST *OPTICAM*® *10GIG*™ 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Aqua	1	10
ST *OPTICAM*® OM2 50/125µm Multimode Fiber Optic Connectors				
FSTMC5BL	ST *OPTICAM*® 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Black	1	10
NEW! **FSTMPC5BL**	ST *OPTICAM*® Composite Ferrule 50/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Black	1	10
ST *OPTICAM*® OM1 62.5/125µm Multimode Fiber Optic Connectors				
NEW! **FSTMC6EI**	ST *OPTICAM*® 62.5/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Electric Ivory	1	10
NEW! **FSTMPC6EI**	ST *OPTICAM*® Composite Ferrule 62.5/125µm Multimode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Electric Ivory	1	10
ST *OPTICAM*® OS1/OS2 Singlemode Fiber Optic Connectors				
FSTSCBU	ST *OPTICAM*® Singlemode Simplex Fiber Optic Connector for 900µm tight-buffered fiber installation.	Blue	1	10
***OPTICAM*® 1.6/2.0mm Cable Retention Boot Assemblies**				
FMCBT2AQ-X	*OPTICAM*® *10GIG*™ OM3 1.6/2.0mm Cable Retention Boot.	Aqua	10	100
FMCBT2BL-X	*OPTICAM*® OM2 Multimode 1.6/2.0mm Cable Retention Boot.	Black	10	100
NEW! **FMCBT2EI-X**	*OPTICAM*® OM1 Multimode 1.6/2.0mm Cable Retention Boot.	Electric Ivory	10	100
FSCBT2BU-X	*OPTICAM*® OS1/OS2 Singlemode 1.6/2.0mm Cable Retention Boot.	Blue	10	100
***OPTICAM*® 3.0mm Cable Retention Boot Assemblies**				
FMCBT3AQ-X	*OPTICAM*® *10GIG*™ OM3 3.0mm Cable Retention Boot.	Aqua	10	100
FMCBT3BL-X	*OPTICAM*® OM2 Multimode 3.0mm Cable Retention Boot.	Black	10	100
NEW! **FMCBT3EI-X**	*OPTICAM*® OM1 Multimode 3.0mm Cable Retention Boot.	Electric Ivory	10	100
FSCBT3BU-X	*OPTICAM*® OS1/OS2 Singlemode 3.0mm Cable Retention Boot.	Blue	10	100

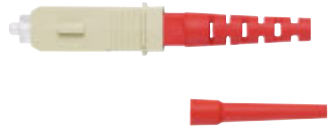
*Simplex connectors are available in 100 count bulk packages by adding -C to the part number.

SC *OPTI-CRIMP*® Fiber Optic Connectors – Pre-Polished Crimp Termination

- TIA/EIA-604 FOCIS-3 compliant connectors
- Exceed TIA/EIA-568-B.3 requirements
- Insertion loss: 0.35dB average (50/125µm), 0.3dB average (62.5/125µm)
- Return loss: >20dB
- Pre-polished mechanical crimp termination eliminates polishing and adhesive, reducing installation time by 50% over field polish SC connectors
- Non-optical disconnect maintains data transmission under tensile loads (jacketed cable only)
- Mechanical crimp cable retention consistently provides higher than industry standard cable retention
- Each simplex connector includes transparent inner housing assembly with pre-polished fiber stub, outer housing, crimp sleeve, one boot for 900µm tight-buffered fiber, one boot for 3mm jacketed cable and one dust cap
- Each duplex connector includes two transparent inner housing assemblies with pre-polished fiber stub, two outer housings, two crimp sleeves, two boots for 3mm jacketed cable, two dust caps and one duplex clip
- SC duplex clip available separately for duplexing two simplex *PANDUIT* SC multimode or singlemode connectors
- Fiber cable size: accept 900µm tight-buffered fiber, 3.0mm jacketed cable or 1.6mm – 2.0mm jacketed cable (noted in part description)
- For 250µm coated fiber termination, use 250 micron fiber build-up tube kit or fan-out kits on pages C.35 – C.36
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings)
- SC *OPTI-CRIMP*® Connectors and crimp tool allow visual verification of optimal continuity during crimp termination with the FVFLY visual fault locator and FVFLPCY patch cord (included in FJMVKITY termination kit)
- Use *OPTI-CRIMP*® Termination Kit (FJMVKITY) on page C.104



FSCMMBL



FSCMMRD



FSCDMM



FSCCLIP-L

Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
SC *OPTI-CRIMP*® 50/125µm Multimode Fiber Optic Connectors				
FSCMM50BL	SC *OPTI-CRIMP*® 50/125µm Multimode Simplex Fiber Optic Connector for 3.0mm jacketed cable or 900µm buffered fiber installation.	Black	1	10
FSCMM50RD		Red	1	10
FSCMM502.0BL	SC *OPTI-CRIMP*® 50/125µm Multimode Simplex Fiber Optic Connector for 1.6mm – 2.0mm jacketed cable or 900µm buffered fiber installation.	Black	1	10
FSCMM502.0RD		Red	1	10
FSCDMM50	SC *OPTI-CRIMP*® 50/125µm Multimode Duplex Fiber Optic Connector for 3.0mm jacketed cable installation.	Red & Black	1	10
SC *OPTI-CRIMP*® 62.5/125µm Multimode Fiber Optic Connectors				
FSCMMBL	SC *OPTI-CRIMP*® 62.5/125µm Multimode Simplex Fiber Optic Connector for 3.0mm jacketed cable or 900µm buffered fiber installation.	Black	1	10
FSCMMRD		Red	1	10
FSCMM2.0BL	SC *OPTI-CRIMP*® 62.5/125µm Multimode Simplex Fiber Optic Connector for 1.6mm – 2.0mm jacketed cable or 900µm buffered fiber installation.^	Black	1	10
FSCMM2.0RD		Red	1	10
FSCDMM	SC *OPTI-CRIMP*® 62.5/125µm Multimode Duplex Fiber Optic Connector for 3.0mm jacketed cable installation.	Red & Black	1	10
SC Duplex Clip				
FSCCLIP-L	SC duplex clip for duplexing two simplex *PANDUIT* SC multimode or singlemode connectors.	Black	50	—

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

ST *Opti-Crimp*® Fiber Optic Connectors – Pre-Polished Crimp Termination

- TIA/EIA-604 FOCIS-2 compliant connectors
- Exceed TIA/EIA-568-B.3 requirements
- Insertion loss: 0.35dB average (50/125µm), 0.3dB average (62.5/125µm)
- Return loss: >20dB
- Pre-polished mechanical crimp termination eliminates polishing and adhesive, reducing installation time by 50% over field polish ST connectors
- Mechanical crimp cable retention consistently provides higher than industry standard cable retention
- Each connector includes connector body/ferrule assembly with pre-polished fiber stub, spring, bayonet, crimp sleeve, one boot for 900 µm tight-buffered fiber, one boot for 3mm jacketed cable and one dust cap
- Fiber cable size: accept 3.0mm jacketed cable or 900µm tight-buffered fiber
- For 250µm coated fiber termination, use 250 micron fiber build-up tube kit or fan-out kits on pages C.35 – C.36
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings)
- ST *Opti-Crimp*® Connectors and crimp tool allow visual verification of optimal continuity during crimp termination with the FVFLY visual fault locator and FVFLPCY patch cord (included in FJMVKITY termination kit)
- Use *Opti-Crimp*® Termination Kit (FJMVKITY) on page C.104



FSTMMBL



FSTMMRD

Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
ST *Opti-Crimp*® 50/125µm Multimode Fiber Optic Connectors				
FSTMM50BL	ST *Opti-Crimp*® 50/125µm Multimode Fiber Optic Connector.	Black	1	10
FSTMM50RD		Red	1	10
ST *Opti-Crimp*® 62.5/125µm Multimode Fiber Optic Connectors				
FSTMMBL	ST *Opti-Crimp*® 62.5/125µm Multimode Fiber Optic Connector.	Black	1	10
FSTMMRD		Red	1	10

FJ® *OPTI-CRIMP*® *MINI-COM*® Duplex Jack Modules – Pre-Polished Crimp Termination

- TIA/EIA-604 FOCIS-6 compliant connectors
- Exceed TIA/EIA-568-B.3 requirements
- Insertion loss: 0.35dB average (50/125µm), 0.3dB average (62.5/125µm)
- Return loss: >20dB
- Pre-polished mechanical crimp termination eliminates polishing and adhesive, reducing installation time by 70% over field polish FJ® Jack Modules
- Non-optical disconnect maintains data transmission under tensile loads for jacketed cable
- Mechanical crimp cable retention consistently provides higher than industry standard cable retention
- RJ45 small form factor duplex jack module – double the port density in one module space
- *MINI-COM*® Jack Modules snap in and out of all *MINI-COM*® telecommunications room products and work area outlets
- Each duplex jack module includes housing, cover, two ferrule assemblies with pre-polished fiber stubs, two crimp sleeves, one boot for 900µm buffered fiber, one boot for 3mm jacketed cable and one dust cap
- Can be clearly identified with labels shown below, and icons on page G.29
- Fiber cable size: accept 900µm tight-buffered fiber or 3.0mm jacketed cable
- For 250µm coated fiber termination, use 250 micron fiber build-up tube kit or fan-out kits on pages C.35 – C.36
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings)
- Corresponding FJ® Plugs found on page C.34
- FJ® *OPTI-CRIMP*® Jack Modules and crimp tool allow visual verification of optimal continuity during crimp termination with the FVFLY visual fault locator and FVFLPCY patch cord (included in FJMVKITY termination kit)
- Use *OPTI-CRIMP*® Termination Kit (FJMVKITY) on page C.104

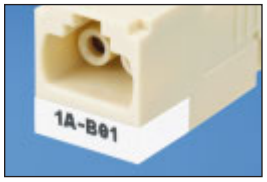


FJJSMM

Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
FJ® *OPTI-CRIMP*® 50/125µm Multimode Duplex Fiber Optic Jack Module					
FJJSMM50CEI	FJ® *OPTI-CRIMP*® 50/125µm Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacket cable or 900µm tight-buffered fiber installation.	1	Electric Ivory	1	10
FJ® *OPTI-CRIMP*® 62.5/125µm Multimode Duplex Fiber Optic Jack Module					
FJJSMM5CEI	FJ® *OPTI-CRIMP*® 62.5/125µm Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacketed cable or 900µm tight-buffered fiber installation.	1	Electric Ivory	1	10

‡For other colors replace suffix EI (Electric Ivory) with BL (Black), BU (Blue), IW (Off White) or AW (Arctic White).

Component Labels for FJ® *OPTI-CRIMP*® *MINI-COM*® Duplex Jack Modules – Pre-Polished Crimp Termination



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Jack Module Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
All *MINI-COM*® Jack Modules	**C138X019FJJ**	**C138X019YPT**	**C138X019FJC**	**T019X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Keyed FJ® *OPTI-CRIMP*® *MINI-COM*® Duplex Jack Modules – Pre-Polished Crimp Termination

- Include all of the same features as the FJ® *OPTI-CRIMP*® Jack Modules (listed on page C.24, C.26) with the added benefit of visual and mechanical security
- Insertion loss: 0.35dB average (50/125µm), 0.3dB average (62.5/125µm)
- Return loss: >20dB (multimode)
- Mechanical keyed configurations prevent unintentional insertion into adjacent ports (four versions)
- color coded for easy identification
- For 250µm coated fiber termination, use 250 micron fiber build-up tube kit or fan-out kits on pages C.35 – C.36
- Corresponding FJ® Keyed Plugs found on page C.35
- FJ® *OPTI-CRIMP*® Keyed Jack Modules and crimp tool allow visual verification of optimal continuity during crimp termination with the FVFLY visual fault locator and FVFLPCY patch cord (included in FJMVKITY termination kit)
- Use *OPTI-CRIMP*® Termination Kit (FJMVKITY) on page C.104



FJJSMM5CWBL



FJJSMM5CXRD



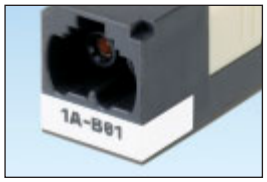
FJJSMM5CYOR



FJJSMM5CZYL

Part Number	Part Description	No. of Module Spaces	Key Type and Color	Std. Pkg. Qty.	Std. Ctn. Qty.
Keyed FJ® *OPTI-CRIMP*® 50/125µm Multimode Duplex Fiber Optic Jack Modules					
FJJSMM50CWBL	FJ® *OPTI-CRIMP*® 50/125µm (keyed W – black) Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacket cable or 900µm tight-buffered fiber installation.	1	Keyed W – Black	1	10
FJJSMM50CXRD	FJ® *OPTI-CRIMP*® 50/125µm Keyed (keyed X – red) Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacket cable or 900µm tight-buffered fiber installation.	1	Keyed X – Red	1	10
FJJSMM50CYOR	FJ® *OPTI-CRIMP*® 50/125µm Keyed (keyed Y – orange) Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacket cable or 900µm tight-buffered fiber installation.	1	Keyed Y – Orange	1	10
FJJSMM50CZYL	FJ® *OPTI-CRIMP*® 50/125µm Keyed (keyed Z – yellow) Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacket cable or 900µm tight-buffered fiber installation.	1	Keyed Z – Yellow	1	10
Keyed FJ® *OPTI-CRIMP*® 62.5/125µm Multimode Duplex Fiber Optic Jack Modules					
FJJSMM5CWBL	FJ® *OPTI-CRIMP*® 62.5/125µm (keyed W – black) Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacket cable or 900µm tight-buffered fiber installation.	1	Keyed W – Black	1	10
FJJSMM5CXRD	FJ® *OPTI-CRIMP*® 62.5/125µm (keyed X – red) Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacket cable or 900µm tight-buffered fiber installation.	1	Keyed X – Red	1	10
FJJSMM5CYOR	FJ® *OPTI-CRIMP*® 62.5/125µm (keyed Y – orange) Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacket cable or 900µm tight-buffered fiber installation.	1	Keyed Y – Orange	1	10
FJJSMM5CZYL	FJ® *OPTI-CRIMP*® 62.5/125µm Keyed (keyed Z – yellow) Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacket cable or 900µm tight-buffered fiber installation.	1	Keyed Z – Yellow	1	10

Component Labels for Keyed FJ® *OPTI-CRIMP*® *MINI-COM*® Duplex Jack Modules – Pre-Polished Crimp Termination



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Jack Module Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
All *MINI-COM*® Jack Modules	**C138X019FJJ**	**C138X019YPT**	**C138X019FJC**	**T019X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O1 – O.18.

Replacement Ferrule Assemblies for FJ® *OPTI-CRIMP*® Jack Modules

- Eliminate the need to purchase complete FJ® *OPTI-CRIMP*® Jack Modules or FJ® *OPTI-CRIMP*® Keyed Jack Modules if necessary to re-terminate
- Include ten ferrule assemblies, crimp sleeves, and dust caps for 3.0mm jacketed cable or 900µm tight-buffered fiber installation
- Dust caps are color coded: orange for 50/125µm and clear for 62.5/125µm



FJJSMM

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FJJSMM50FRL-X	Replacement ferrule assembly, crimp sleeve, and orange dust cap for FJ® *OPTI-CRIMP*® 50/125µm Multimode Duplex Jack Module for 3.0mm jacketed cable or 900µm tight-buffered fiber installation.	10	50
FJJSMMFRL-X	Replacement ferrule assembly, crimp sleeve, and clear dust cap for FJ® *OPTI-CRIMP*® 62.5/125µm Multimode Duplex Jack Module for 3.0mm jacketed cable or 900µm tight-buffered fiber installation.	10	50

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

LC Fiber Optic Connectors – Field Polish Termination

- TIA/EIA-604 FOCIS-10 compatible connectors
- Exceed TIA/EIA-568-B.3 requirements
- Connector housing and boot colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Insertion loss: 0.10dB average (multimode and singlemode)
- Return loss: >20dB (multimode), >40dB (singlemode)
- Non-optical disconnect maintains data transmission under tensile loads for jacketed cable
- Each simplex connector includes connector body/ferrule assembly, crimp sleeve, one boot for 900µm buffered fiber and one boot for 1.6mm – 2.0mm jacketed cable and one dust cap; 3.0mm jacketed cable connectors are also available separately
- Each duplex connector includes two connector body/ferrule assemblies, two crimp sleeves, two boots for 1.6mm – 2.0mm or 3.0mm jacketed cable or two boots for 900µm buffered fiber, two dust caps and one duplex clip
- LC duplex clip available separately for duplexing two simplex *PANDUIT* LC Connectors
- Fiber cable type: tight-buffered recommended
- Fiber cable size: accept 1.6mm – 2.0mm or 3.0mm jacketed cable, or 900µm buffered fiber (noted in part description)
- For 250µm coated fiber termination, use 250 micron fiber build-up tube kit or fan-out kits on pages C.35 – C.36
- Ferrule type: 1.25mm zirconia ceramic (highest durability for repeated matings)
- Field polish termination – *PANDUIT* recommends anaerobic adhesive on page C.106
- Use field polish termination kit (FIELDKIT) on page C.105


FLCSMBLY


FLCDMBLY


FLCDM3.0EI


FLCSSBUY


FLCDSBUY


FLCDS3.0BU


FLCCLIP-L

Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
NEW! LC OM3/OM2 Multimode Fiber Optic Connectors				
FLCSMBLY	LC multimode simplex fiber optic connector for 1.6mm – 2.0mm jacketed cable or 900µm buffered fiber installation.	Black	1	10
FLCSM3.0BL	LC multimode simplex fiber optic connector for 3.0mm jacketed cable installation.	Black	1	10
FLCDMBLY	LC multimode duplex fiber optic connector for 1.6mm – 2.0mm jacketed cable installation.	Black	1	10
FLCDM900BLY	LC multimode duplex fiber optic connector for 900µm buffered fiber installation.	Black	1	10
FLCDM3.0BL	LC multimode duplex fiber optic connector for 3.0mm jacketed cable installation.	Black	1	10
LC OM1 Multimode Fiber Optic Connectors				
FLCSMEIY	LC multimode simplex fiber optic connector for 1.6mm – 2.0mm jacketed cable or 900µm buffered fiber installation.	Electric Ivory	1	10
NEW! FLCSM3.0EI	LC multimode simplex fiber optic connector for 3.0mm jacketed cable installation.	Electric Ivory	1	10
FLCDMEIY	LC multimode duplex fiber optic connector for 1.6mm – 2.0mm jacketed cable installation.	Electric Ivory	1	10
FLCDM900EIY	LC multimode duplex fiber optic connector for 900µm buffered fiber installation.	Electric Ivory	1	10
NEW! FLCDM3.0EI	LC multimode duplex fiber optic connector for 3.0mm jacketed cable installation.	Electric Ivory	1	10
LC OS1/OS2 Singlemode Fiber Optic Connectors				
FLCSSBUY	LC singlemode simplex fiber optic connector for 1.6mm – 2.0mm jacketed cable or 900µm buffered fiber installation.	Blue	1	10
NEW! FLCSS3.0BU	LC singlemode simplex fiber optic connector for 3.0mm jacketed cable installation.	Blue	1	10
FLCDSBUY	LC singlemode duplex fiber optic connector for 1.6mm – 2.0mm jacketed cable installation.	Blue	1	10
FLCDS900BUY	LC singlemode duplex fiber optic connector for 900µm buffered fiber installation.	Blue	1	10
NEW! FLCDS3.0BU	LC singlemode duplex fiber optic connector for 3.0mm jacketed cable installation.	Blue	1	10
NEW! LC *10GIG*™ OM3 Field Polish Boots				
FLCBT900AQ-X	LC *10GIG*™ OM3 Field Polish Boot for 900µm buffered fiber.	Aqua	10	100
FLCBT2AQ-X	LC *10GIG*™ OM3 Field Polish Boot for 1.6/2.0mm jacketed cable.	Aqua	10	100
FLCBT3AQ-X	LC *10GIG*™ OM3 Field Polish Boot for 3.0mm jacketed cable.	Aqua	10	100
LC Duplex Clip				
FLCCLIP-L	LC duplex clip for duplexing two simplex *PANDUIT* LC field polish multimode or singlemode connectors.	White	50	—

SC Fiber Optic Connectors – Field Polish Termination

- TIA/EIA-604 FOCIS-3 compliant connectors
- Exceed TIA/EIA-568-B.3 requirements
- Connector outer housing and boot colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Insertion loss: 0.10dB average (multimode), 0.15dB average (singlemode)
- Return loss: >20dB (multimode), >40dB (singlemode)
- Non-optical disconnect maintains data transmission under tensile loads for jacketed cable
- Free floating housing ensures complete latching even when inserted by the boot, beneficial in high density spacing applications
- Pre-assembled inner housing simplifies assembly
- Each simplex connector includes inner housing assembly, outer housing, crimp sleeve, one boot for 900µm buffered fiber, one boot for 3mm jacketed cable and one dust cap
- Each duplex connector includes two inner housing assemblies, two outer housings, two crimp sleeves, two boots for 3mm jacketed cable, two dust caps and one duplex clip
- SC duplex clip available separately for duplexing two simplex *PANDUIT* SC Connectors
- Fiber cable type: tight-buffered recommended
- Fiber cable size: accept 900µm buffered fiber, 3mm jacketed cable or 1.6mm – 2.0mm jacketed cable (noted in part description)
- For 250µm coated fiber termination, use 250 micron fiber build-up tube kit or fan-out kits on pages C.35, C.36
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings)
- Field polish termination – *PANDUIT* recommends anaerobic adhesive on page C.106
- Use field polish termination kit (FIELDKIT) on page C.105



FSCM5BL



FSCMBL



FSCMRD



FSCDM



FSCSBU



FSCCLIP-L

Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
SC OM3/OM2 Multimode Fiber Optic Connectors				
FSCM5BL	SC multimode simplex fiber optic connector for 3.0mm jacketed cable or 900µm buffered fiber installation.	Black	1	10
FSCM2.05BL	SC multimode simplex fiber optic connector for 1.6mm – 2.0mm jacketed cable or 900µm buffered fiber installation.	Black	1	10
FSCDM5BL	SC multimode duplex fiber optic connector for 3.0mm jacketed cable installation.	Black	1	10
SC OM1 Multimode Fiber Optic Connectors				
FSCMBL	SC multimode simplex fiber optic connector for 3.0mm jacketed cable or 900µm buffered fiber installation.	Black	1	10
FSCMRD	SC multimode simplex fiber optic connector for 3.0mm jacketed cable or 900µm buffered fiber installation.	Red	1	10
FSCM2.0BL	SC multimode simplex fiber optic connector for 1.6mm – 2.0mm jacketed cable or 900µm buffered fiber installation.	Black	1	10
FSCM2.0RD	SC multimode simplex fiber optic connector for 1.6mm – 2.0mm jacketed cable or 900µm buffered fiber installation.	Red	1	10
FSCDM	SC multimode duplex fiber optic connector for 3.0mm jacketed cable installation.	Red & Black	1	10
SC OS1/OS2 Singlemode Fiber Optic Connectors				
FSCSBU	SC singlemode simplex fiber optic connector for 3.0mm jacketed cable or 900µm buffered fiber installation.	Blue	1	10
FSCS2.0BU	SC singlemode simplex fiber optic connector for 1.6mm – 2.0mm jacketed cable or 900µm buffered fiber installation.	Blue	1	10
NEW! **SC 900µm Field Polish Boots**				
FSCBT900AQ-X	SC *10GIG*™ OM3 Field Polish Boot for 900µm buffered fiber.	Aqua	10	100
FSCBT900EI-X	SC OM1 multimode field polish boot for 900µm buffered fiber.	Electric Ivory	10	100
NEW! **SC 1.6/2.0mm Field Polish Boots**				
FSCBT2AQ-X	SC *10GIG*™ OM3 Field Polish Boot for 1.6/2.0mm jacketed cable.	Aqua	10	100
FSCBT2EI-X	SC OM1 multimode field polish boot for 1.6/2.0mm jacketed cable.	Electric Ivory	10	100
NEW! **SC 3.0mm Field Polish Boots**				
FSCBT3AQ-X	SC *10GIG*™ OM3 Field Polish Boot for 3.0mm jacketed cable.	Aqua	10	100
FSCBT3EI-X	SC OM1 multimode field polish boot for 3.0mm jacketed cable.	Electric Ivory	10	100
SC Duplex Clip				
FSCCLIP-L	SC duplex clip for duplexing two simplex *PANDUIT* SC multimode or singlemode connectors.	Black	50	—

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

ST Fiber Optic Connectors – Field Polish Termination

- TIA/EIA-604 FOCIS-2 compatible connectors
- Exceed TIA/EIA-568-B.3 requirements
- Insertion loss: 0.15dB average (multimode), 0.20dB average (singlemode)
- Return loss: >20dB (multimode), >40dB (singlemode)
- Each connector includes metal connector body/ferrule assembly, spring, metal bayonet, crimp sleeve, one boot for 900µm buffered fiber, one boot for 3mm jacketed cable and one dust cap
- Fiber cable type: tight-buffered recommended
- Fiber cable size: accept 3.0mm jacketed cable or 900µm buffered fiber
- For 250µm coated fiber termination, use 250 micron fiber build-up tube kit or fan-out kits on pages C.35 – C.36
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings)
- Field polish termination – *PANDUIT* recommends anaerobic adhesive on page C.106
- Use field polish termination kit (FIELDKIT) on page C.105



FSTMABL



FSTMARD



FSTSABU

Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
ST Multimode Fiber Optic Connectors				
FSTMABL	ST multimode simplex fiber optic connector for 3.0mm jacketed cable or 900µm buffered fiber installation.	Black	1	10
FSTMARD		Red	1	10
ST Singlemode Fiber Optic Connector				
FSTSABU	ST singlemode simplex fiber optic connector for 3.0mm jacketed cable or 900µm buffered fiber installation.	Blue	1	10

FJ® *MINI-COM*® Duplex Jack Modules – Field Polish Termination

- TIA/EIA-604 FOCIS-6 compliant connectors
- Exceed TIA/EIA-568-B.3 requirements
- Insertion loss: 0.1dB average (multimode), 0.2dB average (singlemode)
- Return loss: >20dB (multimode), >40dB (singlemode)
- RJ45 small form factor duplex jack module – double the port density in one module space
- Non-optical disconnect maintains data transmission under tensile loads for jacketed cable
- *MINI-COM*® Jack Modules snap in and out of all *MINI-COM*® telecommunications room products and work area outlets
- Each duplex jack module includes housing, cover, two ferrule assemblies, two crimp sleeves, one boot for 900µm buffered fiber, one boot for 3mm jacketed cable and one dust cap
- Can be clearly identified with labels below and icons on page G.29
- Fiber cable type: tight-buffered recommended
- Fiber cable size: accept 900µm buffered fiber, 3.0mm jacketed cable or 1.6mm – 2.0mm jacketed cable (noted in part description)
- For 250µm coated fiber termination, use 250 micron fiber build-up tube kit or fan-out kits on pages C.35, C.36
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings)
- Corresponding FJ® Plugs found on page C.34
- Field polish termination – *PANDUIT* recommends anaerobic adhesive on page C.106
- Use field polish termination kit (FIELDKIT) on page C.105



FJJGM5C

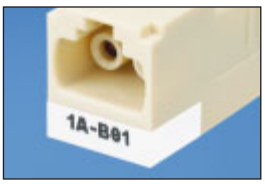


FJJGS9C

Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
FJ® Multimode Duplex Fiber Optic Jack Modules					
FJJGM5CEI	FJ® Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacketed cable or 900µm buffered fiber installation.	1	Electric Ivory	1	10
FJJGM2.0CEI	FJ® Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 1.6mm – 2.0mm jacketed cable or 900µm buffered fiber installation.	1	Electric Ivory	1	10
FJ® Singlemode Duplex Fiber Optic Jack Modules					
FJJGS9CBU	FJ® Singlemode Duplex Fiber Optic Jack Module with zirconia ceramic split sleeves for 3.0mm jacketed cable or 900µm buffered fiber installation.	1	Blue	1	10
FJJGS2.0CBU	FJ® Singlemode Duplex Fiber Optic Jack Module with zirconia ceramic split sleeves for 1.6mm – 2.0mm jacketed cable or 900µm buffered fiber installation.	1	Blue	1	10

‡For other colors replace suffix EI (Electric Ivory) or BU (Blue) with BL (Black), IW (Off White), or AW (Arctic White).

Component Labels for FJ® *MINI-COM*® Duplex Jack Modules – Field Polish Termination



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Jack Module Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
All *MINI-COM*® Jack Modules	**C138X019FJJ**	**C138X019YPT**	**C138X019FJC**	**T019X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Keyed FJ® *MINI-COM*® Duplex Jack Modules – Field Polish Termination

- Include all of the same features as the FJ® Jack Modules (listed on page C.32) with the added benefit of visual and mechanical security
- Insertion loss: 0.1dB average (multimode)
- Return loss: >20dB (multimode)
- Mechanical keyed configurations prevent unintentional insertion into adjacent ports (four versions)
- color coded for easy identification
- For 250µm coated fiber termination, use 250 micron fiber build-up tube kit or fan-out kits on pages C.35 – C.36
- Corresponding FJ® Keyed Plugs found on page C.35
- Field polish termination – *PANDUIT* recommends anaerobic adhesive on page C.106
- Use field polish termination kit (FIELDKIT) on page C.105



FJJGM5CWBL



FJJGM5CXRD



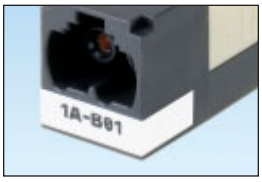
FJJGM5CYOR



FJJGM5CZYL

Part Number	Part Description	No. of Module Spaces	Key Type and Color	Std. Pkg. Qty.	Std. Ctn. Qty.
FJJGM5CWBL	FJ® (keyed W – black) Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacketed cable or 900µm buffered fiber installation.	1	Keyed W – Black	1	10
FJJGM5CXRD	FJ® (keyed X – red) Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacketed cable or 900µm buffered fiber installation.	1	Keyed X – Red	1	10
FJJGM5CYOR	FJ® (keyed W – orange) Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacketed cable or 900µm buffered fiber installation.	1	Keyed Y – Orange	1	10
FJJGM5CZYL	FJ® (keyed Z – yellow) Multimode Duplex Fiber Optic Jack Module with phosphor bronze split sleeves for 3.0mm jacketed cable or 900µm buffered fiber installation.	1	Keyed Z – Yellow	1	10

Component Labels for Keyed FJ® *MINI-COM*® Duplex Jack Modules – Field Polish Termination



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Jack Module Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
All *MINI-COM*® Jack Modules	C138X019FJJ	C138X019YPT	C138X019FJC	T019X000FJC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Replacement Ferrule Assemblies for FJ® Field Polish Jack Modules

- Eliminate the need to purchase complete FJ® Field Polish Jack Modules or FJ® Field Polish Keyed Jack Modules if necessary to re-terminate
- Include ten ferrule assemblies, crimp sleeves, and dust caps for 3.0mm jacketed cable or 900µm tight-buffered fiber installation



FJJ

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FJJFRL-X	Replacement ferrule assembly, crimp sleeve, and dust cap for FJ® Field Polish Multimode Duplex Jack Module for 3.0mm jacketed cable or 900µm tight-buffered fiber installation.	10	50
FJJ9FRL-X	Replacement ferrule assembly, crimp sleeve, and dust cap for FJ® Field Polish Singlemode Duplex Jack Module for 3.0mm jacketed cable or 900µm tight-buffered fiber installation.	10	50

FJ® Duplex Fiber Optic Plugs – Field Polish Termination

- TIA/EIA-604 FOCIS-6 compliant connectors
- Exceed TIA/EIA-568-B.3 requirements
- Insertion loss: 0.1dB average (multimode), 0.2dB average (singlemode)
- Return loss: >20dB (multimode), >40dB (singlemode)
- RJ45 small form factor duplex plug
- Non-optical disconnect maintains data transmission under tensile loads
- Each duplex plug includes housing, insert, two ferrule assemblies, two crimp sleeves, one boot for 3mm jacketed cable and two dust caps
- Fiber cable type: tight-buffered recommended
- Fiber cable size: accept 3.0mm jacketed cable or 1.6mm – 2.0mm jacketed cable (noted in part description)
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings)
- Corresponding FJ® *OPTI-CRIMP*® Jack Modules found on page C.26 and FJ® Field Polish Jack Modules found on page C.32
- Field polish termination – *PANDUIT* recommends anaerobic adhesive on page C.106
- Use field polish termination kit (FIELDKIT) on page C.105



FJEPGM5CEI



FJEPGS9CBUY



FJGCCEI

Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
FJ® Multimode Duplex Fiber Optic Plugs				
FJEPGM5CEI	FJ® Multimode Duplex Fiber Optic Plug for 3mm jacketed cable installation.	Electric Ivory	1	10
FJEPGM2.0CEI	FJ® Multimode Duplex Fiber Optic Plug for 1.6mm – 2.0mm jacketed cable installation.	Electric Ivory	1	10
FJ® Singlemode Duplex Fiber Optic Plugs				
FJEPGS9CBUY	FJ® Singlemode Duplex Fiber Optic Plug for 3mm jacketed cable installation.	Blue	1	10
FJEPGS2.0CBUY	FJ® Singlemode Duplex Fiber Optic Plug for 1.6mm – 2.0mm jacketed cable installation.	Blue	1	10
FJ® Plug-to-Plug Adapter				
FJGCCEI	Adapter to mate two FJ® Duplex Fiber Optic Multimode or Singlemode Plugs. Used for the calibration of test cables and equipment and for FJ® plug-to-plug cross connects. Includes two dust caps. (Not for use in *MINI-COM*® Surface Mount Boxes.)	Electric Ivory	1	10

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Keyed FJ® Duplex Fiber Optic Plugs – Field Polish Termination

- Include all of the same features as the FJ® Plugs (listed on page C.34) with the added benefit of visual and mechanical security
- Insertion loss: 0.1dB average (multimode)
- Return loss: >20dB (multimode)
- Mechanical keyed configurations prevent unintentional insertion into adjacent ports (four versions)
- color coded for easy identification
- Universal keyed plug available
- Corresponding FJ® *OPTI-CRIMP*® Keyed Jack Modules found on page C.27 and FJ® Field Polish Keyed Jack Modules found on page C.33
- Field polish termination – *PANDUIT* recommends anaerobic adhesive on page C.106
- Use field polish termination kit (FIELDKIT) on page C.105



FJEPGM5CWBL



FJEPGM5CXRD



FJEPGM5CYOR



FJEPGM5CZYL

Part Number	Part Description	Key Type and Color	Std. Pkg. Qty.	Std. Ctn. Qty.
FJEPGM5CWBL	FJ® (keyed W – black) Multimode Duplex Fiber Optic Plug for 3mm jacketed cable installation.	Keyed W – Black	1	10
FJEPGM5CXRD	FJ® (keyed X – red) Multimode Duplex Fiber Optic Plug for 3mm jacketed cable installation.	Keyed X – Red	1	10
FJEPGM5CYOR	FJ® (keyed Y – orange) Multimode Duplex Fiber Optic Plug for 3mm jacketed cable installation.	Keyed Y – Orange	1	10
FJEPGM5CZYL	FJ® (keyed Z – yellow) Multimode Duplex Fiber Optic Plug for 3mm jacketed cable installation.	Keyed Z – Yellow	1	10

Replacement Ferrule Assemblies for FJ® Field Polish Plugs

- Eliminate the need to purchase complete FJ® Field Polish Plugs or FJ® Field Polish Keyed Plugs if necessary to re-terminate
- Include ten ferrule assemblies, crimp sleeves, and dust caps for 3.0mm jacketed cable installation
- Ferrule housing molded in blue for singlemode and electric ivory for multimode per industry standard



FJEPFRL-X

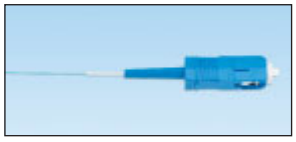


FJEP9FRL-XY

Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
FJEPFRL-X	Replacement ferrule assembly, crimp sleeve, and dust cap for multimode FJ® Field Polish Duplex Plug for 3.0mm jacketed cable installation.	Electric Ivory	10	50
FJEP9FRL-XY	Replacement ferrule assembly, crimp sleeve, and dust cap for singlemode FJ® Field Polish Duplex Plug for 3.0mm jacketed cable installation.	Blue	10	50

250 Micron Fiber Build-Up Tube Kit

- Includes 100 build-up tubes and supplemental instructions for terminating *PANDUIT* field polish, *OPTI-CRIMP*®, or *OPTICAM*® Fiber Optic Connectors onto 250µm coated fiber
- Used with 900µm boots included with connectors and the current fiber optic termination kit



Part Number	Part Description	Std. Pkg. Qty.
F250BT-C	250 micron fiber build-up tube kit; includes 100 build-up tubes and supplemental installation instructions.	100

Furcation Kits

- Used to build up 900µm fiber to 3mm jacketed fiber to strengthen and protect the fiber
- Include furcation tubing with strength members and heat shrink
- Length: 1 meter



FK2BJ

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FK2BJ	Build up 900µm fiber to 3mm jacketed fiber; for two fibers.	1	10
FK4BJ	Build up 900µm fiber to 3mm jacketed fiber; for four fibers.	1	10

Fan-Out Kits

- Used to build up 250µm fiber to 900µm loose buffered coating size for connector termination
- Include 900µm hollow tubing and plastic housings
- Include adhesive tape for mounting
- Include TEFLON* powder for easy insertion of fibers
- Length: 1 meter (39.37")



FO12CB

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FO6CB	Build up 250µm fiber to 900µm loose buffered coating size; for six fibers.	1	10
FO12CB	Build up 250µm fiber to 900µm loose buffered coating size; for twelve fibers.	1	10

*TEFLON is a registered trademark of E.I. du Pont de Nemours and Company.

LC Sr./Sr. Fiber Optic Adapters

- TIA/EIA-604 FOCIS-10 compatible adapters
- Exceed TIA/EIA-568-B.3 requirements
- Adapter housing colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Sr./Sr. (Senior/Senior) adapters have a FOCIS-10 senior adapter interface at each end
- Accept FOCIS-10 compatible senior LC connectors
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3 multimode and OS1/OS2 singlemode applications
- LC simplex and duplex adapters are also available in *OPTICOM®* Fiber Adapter Panels on page C.46 and in *QUICKNET™* Fiber Optic Cassettes on pages C.51 – C.53 to provide a complete LC system solution
- LC duplex adapters are also available in *MINI-COM®* Modules on page C.40



FADSLCZAQ-L



FADSLCBL-L



FADSLCEI-L



FASSLCZBU-L

Part Number	Part Description	Split Sleeve Material	Std. Pkg. Qty.	Std. Ctn. Qty.
LC Sr./Sr. Fiber Optic Adapters – *10GIG™* OM3 50/125µm (Aqua)				
FADSLCZAQ-L	LC Sr./Sr. *10GIG™* SFF Duplex Multimode Fiber Optic Adapter with zirconia ceramic split sleeves.	Zirconia Ceramic	50	100
FADSLCAQ-L	LC Sr./Sr. *10GIG™* SFF Duplex Multimode Fiber Optic Adapter with phosphor bronze split sleeves.	Phosphor Bronze	50	100
LC Sr./Sr. Fiber Optic Adapters – OM2 50/125µm (Black)				
FADSLCBL-L	LC Sr./Sr. SFF duplex multimode fiber optic adapter with phosphor bronze split sleeves.	Phosphor Bronze	50	100
LC Sr./Sr. Fiber Optic Adapters – OM1 62.5µm (Electric Ivory)				
FADSLCEI-L	LC Sr./Sr. SFF duplex multimode fiber optic adapter with phosphor bronze split sleeves.	Phosphor Bronze	50	100
LC Sr./Sr. Fiber Optic Adapters – OS1/OS2 9/125µm (Blue)				
FASSLCZBU-L	LC Sr./Sr. SFF simplex singlemode fiber optic adapter with zirconia ceramic split sleeve.	Zirconia Ceramic	50	100
FADSLCZBU-L	LC Sr./Sr. SFF duplex singlemode fiber optic adapter with zirconia ceramic split sleeves.	Zirconia Ceramic	50	100

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

LC Sr./Jr. Fiber Optic Adapters

- TIA/EIA-604 FOCIS-10 compatible adapters
- Exceed TIA/EIA-568-B.3 requirements
- Adapter housing colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Sr./Jr. (Senior/Junior) adapters have a FOCIS-10 senior adapter interface at one end and a FOCIS-10 junior adapter interface at the other end
- Both ends accept FOCIS-10 compatible senior LC connectors
- Junior end also accepts FOCIS-10 compatible junior (fixed ferrule/springless) LC connectors
- Accommodate tighter applications (inside wall); allowing easier access to LC connectors terminated on 900µm buffered fiber
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3 multimode and OS1/OS2 singlemode applications
- LC simplex and duplex adapters are also available in *OPTICOM®* Fiber Adapter Panels on page C.46 and in *QUICKNET™* Fiber Optic Cassettes on pages C.51 – C.53 to provide a complete LC system solution
- LC duplex adapters are also available in *MINI-COM®* Modules on page C.41



FADJLCZAQ-L



FADJLCBL-L

NEW!



FADJLCEI-L



FASJLCZBU-L

Part Number	Part Description	Split Sleeve Material	Std. Pkg. Qty.	Std. Ctn. Qty.
LC Sr./Jr. Fiber Optic Adapters – *10GIG™* OM3 50/125µm (Aqua)				
FADJLCZAQ-L	LC Sr./Jr. *10GIG™* SFF Duplex Multimode Fiber Optic Adapter with zirconia ceramic split sleeves.	Zirconia Ceramic	50	100
FADJLCAQ-L	LC Sr./Jr. *10GIG™* SFF Duplex Multimode Fiber Optic Adapter with phosphor bronze split sleeves.	Phosphor Bronze	50	100
LC Sr./Jr. Fiber Optic Adapters – OM2 50/125µm (Black)				
FADJLCBL-L	LC Sr./Jr. SFF duplex multimode fiber optic adapter with phosphor bronze split sleeves.	Phosphor Bronze	50	100
LC Sr./Jr. Fiber Optic Adapters – OM1 62.5/125µm (Electric Ivory)				
FADJLCEI-L	LC Sr./Jr. SFF duplex multimode fiber optic adapter with phosphor bronze split sleeves.	Phosphor Bronze	50	100
LC Sr./Jr. Fiber Optic Adapters – OS1/OS2 9/125µm (Blue)				
FASJLCZBU-L	LC Sr./Jr. SFF simplex singlemode fiber optic adapter with zirconia ceramic split sleeve.	Zirconia Ceramic	50	100
FADJLCZBU-L	LC Sr./Jr. SFF duplex singlemode fiber optic adapter with zirconia ceramic split sleeves.	Zirconia Ceramic	50	100

SC Fiber Optic Adapters

- TIA/EIA-604 FOCIS-3 compliant adapters
- Exceed TIA/EIA-568-B.3 requirements
- Adapter housing colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Integrated retention clip automatically adjusts for FOCIS-3 compliant panel thickness variations, creating a snug fit to reduce rattles; no metal clips to become bent or damaged
- Improved protective cap fully surrounds split sleeve opening
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3 multimode and OS1/OS2 singlemode applications
- Short flange design for improved modularity and higher density usage
- Q.C. number and split sleeve material laser marked on every adapter assures 100% traceability and quick and easy identification of split sleeve material
- SC simplex and duplex adapters are also available in *OPTICOM®* Fiber Adapter Panels on pages C.48 – C.49 and in *QUICKNET™* Fiber Optic Cassettes on pages C.51 – C.53 to provide a complete SC system solution
- SC simplex and duplex adapters are also available in *MINI-COM®* Modules on page C.43



FADSCZAQ-L



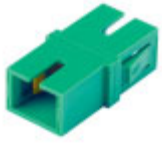
FADSCBL-L



FADSCEI-L



FASSCZBU-L



FASSCZAG-L

Part Number	Part Description	Split Sleeve Material	Std. Pkg. Qty.	Std. Ctn. Qty.
SC Fiber Optic Adapters – *10GIG™* OM3 50/125µm (Aqua)				
FASSCZAQ-L	SC *10GIG™* Simplex Multimode Fiber Optic Adapter with zirconia ceramic split sleeve.	Zirconia Ceramic	50	100
FASSCAQ-L	SC *10GIG™* Simplex Multimode Fiber Optic Adapter with phosphor bronze split sleeve.	Phosphor Bronze	50	100
FADSCZAQ-L	SC *10GIG™* Duplex Multimode Fiber Optic Adapter with zirconia ceramic split sleeves.	Zirconia Ceramic	50	100
FADSCAQ-L	SC *10GIG™* Duplex Multimode Fiber Optic Adapter with phosphor bronze split sleeves.	Phosphor Bronze	50	100
SC Fiber Optic Adapters – OM2 50/125µm (Black)				
FASSCBL-L	SC simplex multimode fiber optic adapter with phosphor bronze split sleeve.	Phosphor Bronze	50	100
FADSCBL-L	SC duplex multimode fiber optic adapter with phosphor bronze split sleeves.	Phosphor Bronze	50	100
SC Fiber Optic Adapters – OM1 62.5/125µm (Electric Ivory)				
FASSCEI-L	SC simplex multimode fiber optic adapter with phosphor bronze split sleeve.	Phosphor Bronze	50	100
FADSCEI-L	SC duplex multimode fiber optic adapter with phosphor bronze split sleeves.	Phosphor Bronze	50	100
SC Fiber Optic Adapters – OS1/OS2 9/125µm (Blue)				
FASSCZBU-L	SC simplex singlemode fiber optic adapter with zirconia ceramic split sleeve.	Zirconia Ceramic	50	100
FASSCBU-L	SC simplex fiber optic adapter with phosphor bronze split sleeve.	Phosphor Bronze	50	100
FADSCZBU-L	SC duplex singlemode fiber optic adapter with zirconia ceramic split sleeves.	Zirconia Ceramic	50	100
FADSCBU-L	SC duplex fiber optic adapter with phosphor bronze split sleeves.	Phosphor Bronze	50	100
SC Fiber Optic Adapters – APC OS1/OS2 9/125µm (Green)				
FASSCZAG-L	SC APC simplex singlemode fiber optic adapter with zirconia ceramic split sleeve.	Zirconia Ceramic	50	100
FADSCZAG-L	SC APC duplex singlemode fiber optic adapter with zirconia ceramic split sleeves.	Zirconia Ceramic	50	100

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

ST Fiber Optic Adapters

NEW!

- TIA/EIA-604 FOCIS-2 compatible adapters
- Exceed TIA/EIA-568-B.3 requirements
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3 multimode and OS1/OS2 singlemode applications
- ST simplex adapters are also available in *OPTICOM*® Fiber Adapter Panels on page C.49 and in *QUICKNET*™ MTP* Fiber Optic Cassettes on page C.53 to provide a complete ST system solution
- ST simplex adapters are also available in *MINI-COM*® Modules on page C.44



FASSTZ-L

Part Number	Part Description	Split Sleeve Material	Std. Pkg. Qty.	Std. Ctn. Qty.
FASSTZ-L	ST singlemode fiber optic adapter with zirconia ceramic sleeve.	Zirconia Ceramic	50	100
FASST-L	ST multimode fiber optic adapter with phosphor bronze split sleeve.	Phosphor Bronze	50	100

*MTP is a registered trademark of US Conec Ltd.

MPO/MTP* *MINI-COM*® Fiber Optic Adapter Module

- TIA/EIA-604 FOCIS-5 compliant adapter
- Exceeds TIA/EIA-568-B.3 requirements
- Compatible with *MINI-COM*® products for complete modularity
- Designed for multimode or singlemode MPO or MTP* connectors, patch cords, or cable assemblies
- *MINI-COM*® MPO/MTP* Adapters are also available in fiber adapter panels on page C.45 to provide a complete MPO/MTP* solution



Part Number	Part Description	No. of Module Spaces	Module Color	Std. Pkg. Qty.	Std. Ctn. Qty.
CMMPOBLBL	Module supplied with one MPO/MTP* fiber optic adapter.	2	Black	1	10

For MTP* connector cleaning tools, see page C.107.
*MTP is a registered trademark of US Conec Ltd.

LC Sr./Sr. *MINI-COM*® Fiber Optic Adapter Modules

- TIA/EIA-604 FOCIS-10 compatible adapters
- Exceed TIA/EIA-568-B.3 requirements
- Adapter housing colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Small form factor (SFF) duplex adapter design fits into single module space
- Compatible with *MINI-COM*® products for complete modularity
- Provide a FOCIS-10 senior adapter interface at each end
- Accept FOCIS-10 compatible senior LC connectors
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3 multimode and OS1/OS2 singlemode applications
- Every adapter is laser marked with Q.C. number to assure 100% traceability
- LC simplex and duplex adapters are also available separately on page C.36, and in patch panels or fiber adapter panels to provide a complete LC system solution



CMDSAQLCZ



CMDSBLLC



CMDSLC



CMDSLCZ

Part Number	Part Description	No. of Module Spaces	Module Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
LC Sr./Sr. Fiber Optic Adapter Modules – *10GIG*™ OM3 50/125µm (Aqua Adapters)					
CMDSAQLCZBL	Module supplied with one LC Sr./Sr. *10GIG*™ SFF Duplex Multimode Fiber Optic Adapter (AQ) with zirconia ceramic split sleeves.	1	Black	1	10
CMDSAQLCBL	Module supplied with one LC Sr./Sr. *10GIG*™ SFF Duplex Multimode Fiber Optic Adapter (AQ) with phosphor bronze split sleeves.	1	Black	1	10
LC Sr./Sr. Fiber Optic Adapter Modules – OM2 50/125µm (Black Adapters)					
CMDSBLLCBL	Module supplied with one LC Sr./Sr. SFF duplex multimode fiber optic adapter (BL) with phosphor bronze split sleeves.	1	Black	1	10
LC Sr./Sr. Fiber Optic Adapter Modules – OM1 62.5/125µm (Electric Ivory Adapters)					
CMDSLCEI	Module supplied with one LC Sr./Sr. SFF duplex multimode fiber optic adapter (EI) with phosphor bronze split sleeves.	1	Electric Ivory	1	10
LC Sr./Sr. Fiber Optic Adapter Modules – OS1/OS2 9/125µm (Blue Adapters)					
CMDSLCZBU	Module supplied with one LC Sr./Sr. SFF duplex singlemode fiber optic adapter (BU) with zirconia ceramic split sleeves.	1	Blue	1	10

‡For other colors module colors, replace suffix BL (Black), EL (Electric Ivory), or BU (Blue) with EI (Electric Ivory), BU (Blue), BL (Black), IW (Off White) or AW (Arctic White). *10GIG*™ Aqua Adapters are available in black modules only.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

LC Sr./Jr. *MINI-COM*® Fiber Optic Adapter Modules

- TIA/EIA-604 FOCIS-10 compatible adapters
- Exceed TIA/EIA-568-B.3 requirements
- Adapter housing colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Small form factor (SFF) duplex adapter design fits into single module space
- Compatible with *MINI-COM*® products for complete modularity
- Accept FOCIS-10 compatible senior LC connectors at either end and FOCIS-10 junior LC connectors at the inside end for behind the wall applications
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3 multimode and OS1/OS2 singlemode applications
- Every adapter is laser marked with Q.C. number to assure 100% traceability
- LC simplex and duplex adapters are also available separately on page C.37, and in patch panels or fiber adapter panels to provide a complete LC system solution



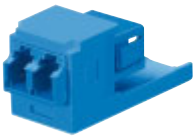
CMDJAQLCZ



CMDJBLLC



CMDJLC



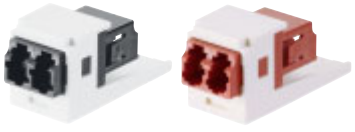
CMDJLCZ

Part Number	Part Description	No. of Module Spaces	Module Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
LC Sr./Jr. Fiber Optic Adapter Modules – *10GIG*™ OM3 50/125µm (Aqua Adapters)					
CMDJAQLCZBL	Module supplied with one LC Sr./Jr. *10GIG*™ SFF Duplex Multimode Fiber Optic Adapter (AQ) with zirconia ceramic split sleeves.	1	Black	1	10
CMDJAQLCBL	Module supplied with one LC Sr./Jr. *10GIG*™ SFF Duplex Multimode Fiber Optic Adapter (AQ) with phosphor bronze split sleeves.	1	Black	1	10
LC Sr./Jr. Fiber Optic Adapter Modules – OM2 50/125µm (Black Adapters)					
NEW! **CMDJBLLCBL**	Module supplied with one LC Sr./Jr. SFF duplex multimode fiber optic adapter (BL) with phosphor bronze split sleeves.	1	Black	1	10
LC Sr./Jr. Fiber Optic Adapter Modules – OM1 62.5/125µm (Electric Ivory Adapters)					
CMDJLCEI	Module supplied with one LC Sr./Jr. SFF duplex multimode fiber optic adapter (EI) with phosphor bronze split sleeves.	1	Electric Ivory	1	10
LC Sr./Jr. Fiber Optic Adapter Modules – OS1/OS2 9/125µm (Blue Adapters)					
CMDJLCZBU	Module supplied with one LC Sr./Jr. SFF duplex singlemode fiber optic adapter (BU) with zirconia ceramic split sleeves.	1	Blue	1	10

‡For other colors module colors, replace suffix BL (Black), EL (Electric Ivory), or BU (Blue) with EI (Electric Ivory), BU (Blue), BL (Black), IW (Off White) or AW (Arctic White). *10GIG*™ Aqua Adapters are available in black modules only.

NEW! Keyed LC *Mini-Com*® Fiber Optic Adapter Modules

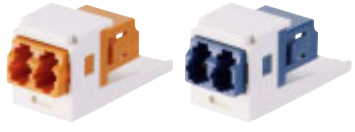
- Exceed TIA/EIA-568-B.3 requirements
- Include color-specific keys with positive and negative keying features to visually and mechanically distinguish connections to prevent unauthorized mating with unlike keyed or non-keyed connectors or patch cords
- Part of a complete keyed LC system that includes *Opti-Core*® Patch Cords and Pigtails, *OptiCam*® Pre-Polished Cam Connectors, *Opticom*® Fiber Adapter Panels (FAPs) and *Mini-Com*® Adapter Modules
- Small form factor (SFF) keyed LC duplex adapter design fits into single module space
- Compatible with *Mini-Com*® products for complete modularity
- Provide a keyed senior adapter interface at each end for keyed LC connectivity
- Include zirconia ceramic split sleeves for superior performance and reliability
- Every adapter is laser marked with Q.C. number to assure 100% traceability
- Keyed LC adapters are also available in Keyed LC *QuickNet*™ Fiber Optic Cassettes on pages C.54 – C.58, or Keyed LC *Opticom*® Fiber Adapter Panels (FAPs) on page C.47, to provide a complete keyed LC system solution



CMDABLLCZ CMDBRDLCZ



CMDCGRLCZ CMDDYLLCZ



CMDEORLCZ CMDFDBLCZ

Part Number	Part Description	No. of Module Spaces	Key Type and Color	Module Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMDABLLCZIW	Module supplied with one LC (keyed A – black) Sr./Sr. SFF duplex fiber optic adapter with zirconia ceramic split sleeves.	1	Keyed A – Black	Off White	1	10
CMDBRDLCZIW	Module supplied with one LC (keyed B – red) Sr./Sr. SFF duplex fiber optic adapter with zirconia ceramic split sleeves.	1	Keyed B – Red	Off White	1	10
CMDCGRLCZIW	Module supplied with one LC (keyed C – green) Sr./Sr. SFF duplex fiber optic adapter with zirconia ceramic split sleeves.	1	Keyed C – Green	Off White	1	10
CMDDYLLCZIW	Module supplied with one LC (keyed D – yellow) Sr./Sr. SFF duplex fiber optic adapter with zirconia ceramic split sleeves.	1	Keyed D – Yellow	Off White	1	10
CMDEORLCZIW	Module supplied with one LC (keyed E – orange) Sr./Sr. SFF duplex fiber optic adapter with zirconia ceramic split sleeves.	1	Keyed E – Orange	Off White	1	10
CMDFDBLCZIW	Module supplied with one LC (keyed F – dark blue) Sr./Sr. SFF duplex fiber optic adapter with zirconia ceramic split sleeves.	1	Keyed F – Dark Blue	Off White	1	10

‡For other colors replace suffix IW (Off White) with AW (Arctic White), BL (Black), BU (Blue) or EI (Electric Ivory).

NEW! LC Duplex Adapter Blockout Device

- TIA/EIA-604 FOCIS-10 compliant device fits all LC duplex adapters for a variety of applications and installations
- Tamper-resistant design blocks unauthorized access to LC duplex ports to reduce the risk of damage, saving time and money associated with data security breaches, network downtime, repair and hardware replacement
- Compact, low profile design allows installation or removal without disturbing adjacent ports or installed patch cords in high-density applications
- Also functions as dust plug to mechanically protect the LC adapter optics and render it “eye-safe”
- Installation/removal tool assists installation in high-density patch fields and allows only authorized personnel to release the device
- Available in multiple colors to match or contrast adapter colors for easy identification of blocked out adapters



Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
PSL-LCAB*	Package of ten LC duplex adapter blockout devices and one insertion/removal tool.	Red	1	20

*For other colors, add -AQ for Aqua, -BL for Black, -BU for Blue, or -EI for Electric Ivory. Also available in bulk packages of 100 devices and five insertion/removal tools. To order bulk package, add -C to the end of the part number.

SC *Mini-Com*® Fiber Optic Adapter Modules

- TIA/EIA-604 FOCIS-3 compliant adapters
- Exceed TIA/EIA-568-B.3 requirements
- Adapter housing colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Compatible with *Mini-Com*® products for complete modularity
- Improved protective cap fully surrounds split sleeve opening
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3 multimode and OS1/OS2 singlemode applications
- Every adapter is laser marked with Q.C. number to assure 100% traceability
- *Mini-Com*® SC Simplex Adapter Modules are commonly used with *Mini-Com*® Patch Panels, Faceplates, and Surface Mount Boxes
- SC simplex and duplex adapters are also available separately on page C.38 and in patch panels or fiber adapter panels to provide a complete SC system solution



CMDAQSC



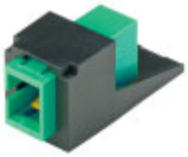
CMDBLSC



CMDEISC



CMSBUSCZ



CMSAGSCZ

Part Number	Part Description	No. of Module Spaces	Module Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
SC Fiber Optic Adapter Modules – *10GIG*™ OM3 50/125µm (Aqua Adapters)					
CMSAQSCZBL	Module supplied with one SC *10GIG*™ Simplex Multimode Fiber Optic Adapter (AQ) with zirconia ceramic split sleeve.	1	Black	1	10
CMSAQSCBL	Module supplied with one SC *10GIG*™ Simplex Multimode Fiber Optic Adapter (AQ) with phosphor bronze split sleeve.	1	Black	1	10
CMDAQSCZBL	Module supplied with one SC *10GIG*™ Duplex Multimode Fiber Optic Adapter (AQ) with zirconia ceramic split sleeves.	2	Black	1	10
CMDAQSCBL	Module supplied with one SC *10GIG*™ Duplex Multimode Fiber Optic Adapter (AQ) with phosphor bronze split sleeves.	2	Black	1	10
NEW! **SC Fiber Optic Adapter Modules – OM2 50/125µm (Black Adapters)**					
CMSBLSCBL	Module supplied with one SC simplex multimode fiber optic adapter (BL) with phosphor bronze split sleeve.	1	Black	1	10
CMDBLSCBL	Module supplied with one SC duplex multimode fiber optic adapter (BL) with phosphor bronze split sleeves.	2	Black	1	10
SC Fiber Optic Adapter Modules – OM1 62.5/125µm (Electric Ivory Adapters)					
CMSEISCEI	Module supplied with one SC simplex multimode fiber optic adapter (EI) with phosphor bronze split sleeve.	1	Electric Ivory	1	10
CMDEISCEI	Module supplied with one SC duplex multimode fiber optic adapter (EI) with phosphor bronze split sleeves.	2	Electric Ivory	1	10
SC Fiber Optic Adapter Modules – OS1/OS2 9/125µm (Blue Adapters)					
CMSBUSCZBU	Module supplied with one SC simplex singlemode fiber optic adapter (BU) with zirconia ceramic split sleeve.	1	Blue	1	10
CMDBUSCZBU	Module supplied with one SC duplex singlemode fiber optic adapter (BU) with zirconia ceramic split sleeves.	2	Blue	1	10
SC Fiber Optic Adapter Modules – APC OS1/OS2 9/125µm (Green Adapters)					
CMSAGSCZBL	Module supplied with one SC APC simplex singlemode fiber optic adapter (AG) with zirconia ceramic split sleeve.	1	Black	1	10
CMDAGSCZBL	Module supplied with one SC APC duplex singlemode fiber optic adapter (AG) with zirconia ceramic split sleeves.	2	Black	1	10

‡For other colors module colors, replace suffix BL (Black), EL (Electric Ivory), or BU (Blue) with EI (Electric Ivory), BU (Blue), BL (Black), IW (Off White) or AW (Arctic White). *10GIG*™ and APC Adapters are available in black modules only.

ST *MINI-COM*® Fiber Optic Adapter Modules

- TIA/EIA-604 FOCIS-2 compatible adapters
- Exceed TIA/EIA-568-B.3 requirements
- Compatible with *MINI-COM*® products for complete modularity
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3 multimode and OS1/OS2 singlemode applications
- *MINI-COM*® ST Simplex Adapter Modules are commonly used with *MINI-COM*® Patch Panels
- ST simplex adapters are also available separately on page C.39, and in patch panels or fiber adapter panels to provide a complete ST system solution



CMSTZ

Part Number	Part Description	No. of Module Spaces	Module Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMSTZBU	Module supplied with one ST singlemode fiber optic adapter with zirconia ceramic split sleeve.	1	Blue	1	10
CMSTEI	Module supplied with one ST multimode fiber optic adapter with phosphor bronze split sleeve.	1	Electric Ivory	1	10

‡For other colors replace suffix BU (Blue) or EI (Electric Ivory) with EI (Electric Ivory), BU (Blue), BL (Black), IW (Off White) or AW (Arctic White).

FC *MINI-COM*® Fiber Optic Adapter Modules

- TIA/EIA-604 FOCIS-4 compliant adapters
- Exceed TIA/EIA-568-B.3 requirements
- Compatible with *MINI-COM*® products for complete modularity
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3 multimode and OS1/OS2 singlemode applications
- *MINI-COM*® FC Simplex Adapter Modules are commonly used with *MINI-COM*® Patch Panels
- FC simplex adapters are also available in patch panels and fiber adapter panels to provide a complete FC system solution



CMFC

Part Number	Part Description	No. of Module Spaces	Module Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMFCZBU	Module supplied with one FC singlemode fiber optic adapter with zirconia ceramic split sleeve.	1	Blue	1	10
CMFCEI	Module supplied with one FC multimode fiber optic adapter with phosphor bronze split sleeve.	1	Electric Ivory	1	10

‡For other colors replace suffix BU (Blue) or EI (Electric Ivory) with BL (Black), IW (Off White), or AW (Arctic White).

MT-RJ *MINI-COM*® Fiber Optic Adapter Modules

- TIA/EIA-604 FOCIS-12 compliant adapter
- Exceed TIA/EIA-568-B.3 requirements
- Compatible with *MINI-COM*® products for complete modularity
- Designed for multimode MT-RJ connectors and patch cords
- *MINI-COM*® MT-RJ Duplex Adapter Modules are commonly used with *MINI-COM*® Faceplates and Surface Mount Boxes



Part Number	Part Description	No. of Module Spaces	Module Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMMJEI	MT-RJ multimode duplex fiber optic adapter module.	1	Electric Ivory	1	10

‡For other colors replace suffix EI (Electric Ivory) with BL (Black), BU (Blue), IW (Off White) or AW (Arctic White).

Mini-Com® Fiber Cable Strain Relief Module

NEW!

- Provides pass-thru access and strain relief protection of fiber cable
- Compatible with *Mini-Com*® products for complete modularity
- Commonly used with MDU installations on pages H.1 – H.5



Part Number	Part Description	No. of Module Spaces	Module Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMCSRIW	Fiber cable strain relief module.	1	Off White	1	10

‡For other colors replace suffix IW (Off White) with BL (Black), BU (Blue), EI (Electric Ivory), IG (International Gray) or WH (White).

Mini-Com® Blank Module

- Secures opening to prevent tampering
- Compatible with *Mini-Com*® Modular Patch Panels, Faceplates, and Surface Mount Boxes



Part Number	Part Description	No. of Module Spaces	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMBBL-X	1-position, reserves space for future use.	1	Black	10	50

‡For other colors replace suffix BL (Black) with IW (Off White), EI (Electric Ivory), WH (White) or IG (International Gray).

QuickNet™ MPO/MTP* Fiber Adapter Panels (FAPs)

- Loaded with TIA/EIA-604 FOCIS-5 compliant adapters
- Exceed TIA/EIA-568-B.3 requirements
- Silkscreened for horizontal or vertical orientation of four or six 12-fiber MPO or MTP* connectors
- Designed for multimode or singlemode MPO or MTP* connectors, patch cords, or cable assemblies
- Snap quickly into the front of all *Opticom*® and *Opticom*® *QuickNet*™ components
- Can be used with *Opticom*® Zero RU Cable Management Solutions on page C.62 and *QuickNet*™ Hydra Cable Assemblies on page C.93 to facilitate connection to the active equipment



FAPH4W12BLMTP



FAPH6W12BLMTP



FAP4W12BLMTP

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
MPO/MTP* Horizontal Fiber Adapter Panels			
FAPH4W12BLMTP	MPO/MTP* FAP loaded with four MPO/MTP* fiber optic adapters; silkscreened for horizontal orientation of 12-fiber MPO or MTP* connectors.	1	10
FAPH6W12BLMTP	MPO/MTP* FAP loaded with six MPO/MTP* fiber optic adapters; silkscreened for horizontal orientation of 12-fiber MPO or MTP* connectors.	1	10
MPO/MTP* Vertical Fiber Adapter Panel			
FAP4W12BLMTP	MPO/MTP* FAP loaded with four MPO/MTP* fiber optic adapters; silkscreened for vertical orientation of 12-fiber MPO or MTP* connectors.	1	10

For MTP* Connector Cleaning Tools, see page C.107.
*MTP is a registered trademark of US Conec Ltd.

LC *OPTICOM*® Fiber Adapter Panels (FAPs)

- Loaded with TIA/EIA-604 FOCIS-10 compatible adapters
- Exceed TIA/EIA-568-B.3 requirements
- Adapter housing colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Snap quickly into the front of all *OPTICOM*® components
- LC fiber adapter panels are Sr./Jr. to conserve enclosure space
- Accept FOCIS-10 compatible senior LC connectors at either end and FOCIS-10 junior LC connectors at the inside end for behind the wall applications
- Both ends accept FOCIS-10 compatible senior LC connectors
- Junior end also accepts FOCIS-10 compatible junior (fixed ferrule/springless) LC connectors
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3 multimode and OS1/OS2 singlemode applications
- Every adapter is laser marked with Q.C. number to assure 100% traceability
- LC adapters are also available in *QUICKNET*™ Fiber Optic Cassettes on pages C.51 – C.53, *MINI-COM*® Modules on page C.41, or separately on page C.37 to provide a complete LC system solution



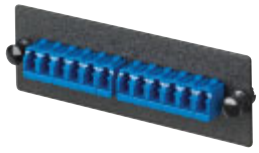
FAP12WAQDLCZ



FAP8WBLDLC



FAP6WEIDLC



FAP12WBULCZ

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
LC Fiber Adapter Panels – *10GIG*™ OM3 50/125µm (Aqua Adapters)			
FAP6WAQDLCZ	LC *10GIG*™ FAP loaded with six LC *10GIG*™ Duplex Multimode Fiber Optic Adapters (Aqua) with zirconia ceramic split sleeves.	1	10
FAP6WAQDLC	LC *10GIG*™ FAP loaded with six LC *10GIG*™ Duplex Multimode Fiber Optic Adapters (Aqua) with phosphor bronze split sleeves.	1	10
FAP8WAQDLCZ	LC *10GIG*™ FAP loaded with eight LC *10GIG*™ Duplex Multimode Fiber Optic Adapters (Aqua) with zirconia ceramic split sleeves.	1	10
FAP8WAQDLC	LC *10GIG*™ FAP loaded with eight LC *10GIG*™ Duplex Multimode Fiber Optic Adapters (Aqua) with phosphor bronze split sleeves.	1	10
FAP12WAQDLCZ	LC *10GIG*™ FAP loaded with twelve LC *10GIG*™ Duplex Multimode Fiber Optic Adapters (Aqua) with zirconia ceramic split sleeves.	1	10
FAP12WAQDLC	LC *10GIG*™ FAP loaded with twelve LC *10GIG*™ Duplex Multimode Fiber Optic Adapters (Aqua) with phosphor bronze split sleeves.	1	10
LC Fiber Adapter Panels – OM2 50/125µm (Black Adapters)			
FAP6WBLDLC	LC FAP loaded with six LC duplex multimode fiber optic adapters (Black) with phosphor bronze split sleeves.	1	10
FAP8WBLDLC	LC FAP loaded with eight LC duplex multimode fiber optic adapters (Black) with phosphor bronze split sleeves.	1	10
FAP12WBLDLC	LC FAP loaded with twelve LC duplex multimode fiber optic adapters (Black) with phosphor bronze split sleeves.	1	10
LC Fiber Adapter Panels – OM1 62.5/125µm (Electric Ivory Adapters)			
FAP6WEIDLC	LC FAP loaded with six LC duplex multimode fiber optic adapters (Electric Ivory) with phosphor bronze split sleeves.	1	10
FAP8WEIDLC	LC FAP loaded with eight LC duplex multimode fiber optic adapters (Electric Ivory) with phosphor bronze split sleeves.	1	10
FAP12WEIDLC	LC FAP loaded with twelve LC duplex multimode fiber optic adapters (Electric Ivory) with phosphor bronze split sleeves.	1	10
LC Fiber Adapter Panels – OS1/OS2 9/125µm (Blue Adapters)			
FAP12WBULCZ	LC FAP loaded with twelve LC simplex singlemode fiber optic adapters (Blue) with zirconia ceramic split sleeves.	1	10
FAP6WBUDLCZ	LC FAP loaded with six LC duplex singlemode fiber optic adapters (Blue) with zirconia ceramic split sleeves.	1	10
FAP8WBUDLCZ	LC FAP loaded with eight LC duplex singlemode fiber optic adapters (Blue) with zirconia ceramic split sleeves.	1	10
FAP12WBUDLCZ	LC FAP loaded with twelve LC duplex singlemode fiber optic adapters (Blue) with zirconia ceramic split sleeves.	1	10

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Keyed LC *OPTICOM*® Fiber Adapter Panels (FAPs)

NEW!

- Include color-specific keys with positive and negative keying features to visually and mechanically distinguish connections to prevent unauthorized mating with unlike keyed or non-keyed connectors and patch cords
- Part of a complete keyed LC system that includes *OPTI-CORE*® Patch Cords and Pigtails, *OPTICAM*® Pre-Polished Cam Connectors, *OPTICOM*® Fiber Adapter Panels (FAPs), and *MINI-COM*® Adapter Modules
- Snap quickly into the front of all *OPTICOM*® components
- Provide a keyed senior adapter interface at each end for keyed LC connectivity
- Include zirconia ceramic split sleeves for superior performance and reliability
- Every adapter is laser marked with Q.C. number to assure 100% traceability
- Keyed LC adapters are also available in Keyed LC *QUICKNET*™ Fiber Optic Cassettes on pages C.54 – C.58, or Keyed LC *MINI-COM*® Modules on page C.42 to provide a complete keyed LC system solution



FAP6WBRDDLCZ



FAP8WEORDLCZ



FAP12WDYLDLCZ

Part Number	Part Description	Key Type and Color	Std. Pkg. Qty.	Std. Ctn. Qty.
Keyed LC Fiber Adapter Panels – Six Adapters				
FAP6WABLDLCZ	Keyed LC FAP loaded with six LC (keyed A – black) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed A – Black	1	10
FAP6WBRDDLCZ	Keyed LC FAP loaded with six LC (keyed B – red) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed B – Red	1	10
FAP6WCGRDLCZ	Keyed LC FAP loaded with six LC (keyed C – green) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed C – Green	1	10
FAP6WDYLDLCZ	Keyed LC FAP loaded with six LC (keyed D – yellow) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed D – Yellow	1	10
FAP6WEORDLCZ	Keyed LC FAP loaded with six LC (keyed E – orange) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed E – Orange	1	10
FAP6WFDBDLCZ	Keyed LC FAP loaded with six LC (keyed F – dark blue) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed F – Dark Blue	1	10
Keyed LC Fiber Adapter Panels – Eight Adapters				
FAP8WABLDLCZ	Keyed LC FAP loaded with eight LC (keyed A – black) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed A – Black	1	10
FAP8WBRDDLCZ	Keyed LC FAP loaded with eight LC (keyed B – red) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed B – Red	1	10
FAP8WCGRDLCZ	Keyed LC FAP loaded with eight LC (keyed C – green) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed C – Green	1	10
FAP8WDYLDLCZ	Keyed LC FAP loaded with eight LC (keyed D – yellow) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed D – Yellow	1	10
FAP8WEORDLCZ	Keyed LC FAP loaded with eight LC (keyed E – orange) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed E – Orange	1	10
FAP8WFDBDLCZ	Keyed LC FAP loaded with eight LC (keyed F – dark blue) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed F – Dark Blue	1	10
Keyed LC Fiber Adapter Panels – Twelve Adapters				
FAP12WABLDLCZ	Keyed LC FAP loaded with twelve LC (keyed A – black) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed A – Black	1	10
FAP12WBRDDLCZ	Keyed LC FAP loaded with twelve LC (keyed B – red) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed B – Red	1	10
FAP12WCGRDLCZ	Keyed LC FAP loaded with twelve LC (keyed C – green) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed C – Green	1	10
FAP12WDYLDLCZ	Keyed LC FAP loaded with twelve LC (keyed D – yellow) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed D – Yellow	1	10
FAP12WEORDLCZ	Keyed LC FAP loaded with twelve LC (keyed E – orange) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed E – Orange	1	10
FAP12WFDBDLCZ	Keyed LC FAP loaded with twelve LC (keyed F – dark blue) duplex fiber optic adapters with zirconia ceramic split sleeves.	Keyed F – Dark Blue	1	10

SC *OPTICOM*® Fiber Adapter Panels (FAPs)

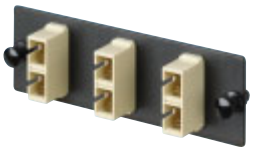
- Loaded with TIA/EIA-604 FOCIS-3 compliant adapters
- Exceed TIA/EIA-568-B.3 requirements
- Adapter housing colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Snap quickly into the front of all *OPTICOM*® components
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3 multimode and OS1/OS2 singlemode applications
- Q.C. number and split sleeve material laser marked on every adapter assures 100% traceability and quick and easy identification of split sleeve material
- SC adapters are also available in *QUICKNET*™ Fiber Optic Cassettes on pages C.51 – C.53, *MINI-COM*® Modules on page C.43, or separately on page C.38 to provide a complete SC system solution



FAP6WAQDSCZ



FAP4WBLDSC



FAP3WEIDSC

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
SC Fiber Adapter Panels – *10GIG*™ OM3 50/125µm (Aqua Adapters)			
FAP6WAQSCZ	SC *10GIG*™ FAP loaded with six SC *10GIG*™ Simplex Multimode Fiber Optic Adapters (Aqua) with zirconia ceramic split sleeves.	1	10
FAP6WAQSC	SC *10GIG*™ FAP loaded with six SC *10GIG*™ Simplex Multimode Fiber Optic Adapters (Aqua) with phosphor bronze split sleeves.	1	10
FAP2WAQDSCZ	SC *10GIG*™ FAP loaded with two SC *10GIG*™ Duplex Multimode Fiber Optic Adapters (Aqua) with zirconia ceramic split sleeves.	1	10
FAP3WAQDSCZ	SC *10GIG*™ FAP loaded with three SC *10GIG*™ Duplex Multimode Fiber Optic Adapters (Aqua) with zirconia ceramic split sleeves.	1	10
FAP4WAQDSCZ	SC *10GIG*™ FAP loaded with four SC *10GIG*™ Duplex Multimode Fiber Optic Adapters (Aqua) with zirconia ceramic split sleeves.	1	10
FAP6WAQDSCZ	SC *10GIG*™ FAP loaded with six SC *10GIG*™ Duplex Multimode Fiber Optic Adapters (Aqua) with zirconia ceramic split sleeves.	1	10
FAP2WAQDSC	SC *10GIG*™ FAP loaded with two SC *10GIG*™ Duplex Multimode Fiber Optic Adapters (Aqua) with phosphor bronze split sleeves.	1	10
FAP3WAQDSC	SC *10GIG*™ FAP loaded with three SC *10GIG*™ Duplex Multimode Fiber Optic Adapters (Aqua) with phosphor bronze split sleeves.	1	10
FAP4WAQDSC	SC *10GIG*™ FAP loaded with four SC *10GIG*™ Duplex Multimode Fiber Optic Adapters (Aqua) with phosphor bronze split sleeves.	1	10
FAP6WAQDSC	SC *10GIG*™ FAP loaded with six SC *10GIG*™ Duplex Multimode Fiber Optic Adapters (Aqua) with phosphor bronze split sleeves.	1	10
NEW! **SC Fiber Adapter Panels – OM2 50/125µm (Black Adapters)**			
FAP6WBLSC	SC FAP loaded with six SC simplex multimode fiber optic adapters (Black) with phosphor bronze split sleeves.	1	10
FAP12WBLSC	SC FAP loaded with twelve SC simplex multimode fiber optic adapters (Black) with phosphor bronze split sleeves.	1	10
FAP2WBLDSC	SC FAP loaded with two SC duplex multimode fiber optic adapters (Black) with phosphor bronze split sleeves.	1	10
FAP3WBLDSC	SC FAP loaded with three SC duplex multimode fiber optic adapters (Black) with phosphor bronze split sleeves.	1	10
FAP4WBLDSC	SC FAP loaded with four SC duplex multimode fiber optic adapters (Black) with phosphor bronze split sleeves.	1	10
FAP6WBLDSC	SC FAP loaded with six SC duplex multimode fiber optic adapters (Black) with phosphor bronze split sleeves.	1	10
SC Fiber Adapter Panels – OM1 62.5/125µm (Electric Ivory Adapters)			
FAP6WEISC	SC FAP loaded with six SC simplex multimode fiber optic adapters (Electric Ivory) with phosphor bronze split sleeves.	1	10
FAP12WEISC	SC FAP loaded with twelve SC simplex multimode fiber optic adapters (Electric Ivory) with phosphor bronze split sleeves.	1	10
FAP2WEIDSC	SC FAP loaded with two SC duplex multimode fiber optic adapters (Electric Ivory) with phosphor bronze split sleeves.	1	10
FAP3WEIDSC	SC FAP loaded with three SC duplex multimode fiber optic adapters (Electric Ivory) with phosphor bronze split sleeves.	1	10
FAP4WEIDSC	SC FAP loaded with four SC duplex multimode fiber optic adapters (Electric Ivory) with phosphor bronze split sleeves.	1	10
FAP6WEIDSC	SC FAP loaded with six SC duplex multimode fiber optic adapters (Electric Ivory) with phosphor bronze split sleeves.	1	10

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

SC *OPTICOM*® Fiber Adapter Panels (FAPs) (continued)



FAP12WBUSCZ



FAP4WBUDSCZ



FAP12WAGSCZ

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
SC Fiber Adapter Panels – OS1/OS2 9/125µm (Blue Adapters)			
FAP6WBUSCZ	SC FAP loaded with six SC simplex singlemode fiber optic adapters (Blue) with zirconia ceramic split sleeves.	1	10
FAP12WBUSCZ	SC FAP loaded with twelve SC simplex singlemode fiber optic adapters (Blue) with zirconia ceramic split sleeves.	1	10
FAP2WBUDSCZ	SC FAP loaded with two SC duplex singlemode fiber optic adapters (Blue) with zirconia ceramic split sleeves.	1	10
FAP3WBUDSCZ	SC FAP loaded with three SC duplex singlemode fiber optic adapters (Blue) with zirconia ceramic split sleeves.	1	10
FAP4WBUDSCZ	SC FAP loaded with four SC duplex singlemode fiber optic adapters (Blue) with zirconia ceramic split sleeves.	1	10
FAP6WBUDSCZ	SC FAP loaded with six SC duplex singlemode fiber optic adapters (Blue) with zirconia ceramic split sleeves.	1	10
SC Fiber Adapter Panels – APC OS1/OS2 9/125µm (Green Adapters)			
FAP6WAGSCZ	SC APC FAP loaded with six SC APC simplex singlemode fiber optic adapters (Green) with zirconia ceramic split sleeves.	1	10
FAP12WAGSCZ	SC APC FAP loaded with twelve SC APC simplex singlemode fiber optic adapters (Green) with zirconia ceramic split sleeves.	1	10
FAP2WAGDSCZ	SC APC FAP loaded with two SC APC duplex singlemode fiber optic adapters (Green) with zirconia ceramic split sleeves.	1	10
FAP3WAGDSCZ	SC APC FAP loaded with three SC APC duplex singlemode fiber optic adapters (Green) with zirconia ceramic split sleeves.	1	10
FAP4WAGDSCZ	SC APC FAP loaded with four SC APC duplex singlemode fiber optic adapters (Green) with zirconia ceramic split sleeves.	1	10
FAP6WAGDSCZ	SC APC FAP loaded with six SC APC duplex singlemode fiber optic adapters (Green) with zirconia ceramic split sleeves.	1	10

ST *OPTICOM*® Fiber Adapter Panels (FAPs)

- Loaded with TIA/EIA-604 FOCIS-2 compatible adapters
- Exceed TIA/EIA-568-B.3 requirements
- Snap quickly into the front of all *OPTICOM*® components
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3 multimode and OS1/OS2 singlemode applications
- ST adapters are also available in *MINI-COM*® Modules on page C.44, or separately on page C.39 to provide a complete ST system solution



FAP6WSTZ



FAP6WSTA

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FAP6WSTZ	ST FAP loaded with six ST simplex singlemode fiber optic adapters with zirconia ceramic split sleeves.	1	10
FAP8WSTZ	ST FAP loaded with eight ST simplex singlemode fiber optic adapters with zirconia ceramic split sleeves.	1	10
FAP6WST	ST FAP loaded with six ST simplex multimode fiber optic adapters with phosphor bronze split sleeves.	1	10
FAP6WSTA	ST FAP (angled) loaded with six ST simplex multimode fiber optic adapters with phosphor bronze split sleeves.	1	10
FAP8WST	ST FAP loaded with eight ST simplex multimode fiber optic adapters with phosphor bronze split sleeves.	1	10

FC *OPTICOM*® Fiber Adapter Panels (FAPs)

- Loaded with TIA/EIA-604 FOCIS-4 compliant adapters
- Exceed TIA/EIA-568-B.3 requirements
- Snap quickly into the front of all *OPTICOM*® components
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3 multimode and OS1/OS2 singlemode applications
- FC *MINI-COM*® Adapter Modules are available separately on page C.44 to provide a complete FC system solution



FAP6WFCZ

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FAP6WFCZ	FC FAP loaded with six FC simplex singlemode fiber optic adapters with zirconia ceramic split sleeves.	1	10
FAP6WFC	FC FAP loaded with six FC simplex multimode fiber optic adapters with phosphor bronze split sleeves.	1	10

MT-RJ *OPTICOM*® Fiber Adapter Panels (FAPs)

- Loaded with TIA/EIA-604 FOCIS-12 compliant adapters
- Exceed TIA/EIA-568-B.3 requirements
- Snap quickly into the front of all *OPTICOM*® components
- Designed for multimode MT-RJ connectors and patch cords
- MT-RJ *MINI-COM*® Adapter Modules are available separately on page C.44 to provide a complete MT-RJ system solution



FMP6WMTRJ

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FMP6WMTRJ	MT-RJ FAP loaded with six MT-RJ duplex multimode fiber optic adapters (Electric Ivory).	1	10
FMP6WMTRJBL	MT-RJ FAP loaded with six MT-RJ duplex multimode fiber optic adapters (Black).	1	10

OPTICOM® Multimedia Modular Panel (FMP)

- Allows customization of installation for multimedia applications requiring integration of fiber optic and copper cables
- Snaps quickly into the front of all *OPTICOM*® components



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FMP6	Unloaded panel accepts up to six *MINI-COM*® Modules for UTP, fiber optic, and audio/video applications.	1	10

OPTICOM® Blank Fiber Adapter Panel (FAP)

- Reserves fiber adapter panel space for future use
- Snaps quickly into the front of all *OPTICOM*® components



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FAPB	Blank fiber adapter panel – reserves space for future use.	1	10

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

QuickNet™ SFQ Series MTP* Fiber Optic Cassettes

NEW!

- Compatible with *QuickNet*™ Patch Panels on page C.63 for up to 96 fiber connections in 1RU with QAPP48HDBL *QuickNet*™ 48-port Angled Patch Panel
- Low insertion loss of 0.5dB max. per optimized cassette and 1.0dB max. per standard cassette; ensures system meets IEEE 802.3ae max. channel loss specification of <2.6dB
- Return loss: ≥26dB (*10GIG*™ multimode), ≥20dB (multimode), ≥55dB (singlemode)
- Adapter housing colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Connect together with high-density female MTP* cable assemblies as interconnecting network segments for deploying a remote or data center location in minutes
- Significantly reduce installation time and labor by eliminating field connector terminations
- Factory terminated, assembled, and 100% tested
- Insertion loss data provided on every fiber cassette
- Return loss data provided on all singlemode fiber cassettes
- Lifetime traceability of test data to a Q.C. number on each fiber cassette
- *10GIG*™ OM3 50/125µm Fiber Cassettes are tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters at 850nm; backward compatible with all 50/125µm (OM2) MPO or MTP* system requirements



FQXO-12-10



FQX-6-3



FQ6-6-3



FQ9-12-10

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Optimized *10GIG*™ 50/125µm (OM3) Multimode SFQ Series MTP* Cassettes			
FQXO-12-10	Six LC duplex adapters to one male MTP*; 12-fiber optimized pre-terminated MTP* rear mount cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	1	10
FQXO-6-3	Three SC duplex adapters to one male MTP*; 6-fiber optimized pre-terminated MTP* rear mount cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	1	10
***10GIG*™ 50/125µm (OM3) Multimode SFQ Series MTP* Cassettes**			
FQX-12-10	Six LC duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* rear mount cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	1	10
FQX-6-3	Three SC duplex adapters to one male MTP*; 6-fiber pre-terminated MTP* rear mount cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	1	10
50/125µm (OM2) Multimode SFQ Series MTP* Cassettes			
FQ5-12-10	Six LC duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* rear mount cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	1	10
FQ5-6-3	Three SC duplex adapters to one male MTP*; 6-fiber pre-terminated MTP* rear mount cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	1	10
62.5/125µm (OM1) Multimode SFQ Series MTP* Cassettes			
FQ6-12-10	Six LC duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* rear mount cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	1	10
FQ6-6-3	Three SC duplex adapters to one male MTP*; 6-fiber pre-terminated MTP* rear mount cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	1	10
9/125µm (OS1/OS2) Singlemode SFQ Series MTP* Cassettes			
FQ9-12-10	Six LC duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* rear mount cassette provides low insertion loss of 1.0dB max. per fiber; singlemode (OS1/OS2) fiber.	1	10
FQ9-6-3	Three SC duplex adapters to one male MTP*; 6-fiber pre-terminated MTP* rear mount cassette provides low insertion loss of 1.0dB max. per fiber; singlemode (OS1/OS2) fiber.	1	10

For MTP* Connector Cleaning Tools, see page C.107.

*MTP is a registered trademark of US Conec Ltd.

QuickNet™ MTP* Fiber Optic Cassettes

- Compatible with Opticom® QuickNet™ Rack Mount Fiber Cassette Enclosures on page C.59, Opticom® Zero RU Cable Management Solutions on page C.62, and Opticom® Wall Mount Enclosures on page C.65, for up to 96 fiber connections in 1RU
- Low insertion loss of 0.5dB max. per optimized cassette and 1.0dB max. per standard cassette; ensures system meets IEEE 802.3ae max. channel loss specification of <2.6dB
- Return loss: ≥26dB (*10GIG*™ multimode), ≥20dB (multimode), ≥55dB (singlemode)
- Adapter housing colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Connect together with high-density female MTP* cable assemblies as interconnecting network segments for deploying a remote or data center location in minutes
- Significantly reduce installation time and labor by eliminating field connector terminations
- Factory terminated, assembled, and 100% tested
- Insertion loss data provided on every fiber cassette
- Return loss data provided on all singlemode fiber cassettes
- Lifetime traceability of test data to a Q.C. number on each fiber cassette
- *10GIG*™ OM3 50/125µm Fiber Cassettes are tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters at 850nm; backward compatible with all 50/125µm (OM2) MPO or MTP* system requirements



FCXO-24-10Y



FCX-12-3SY



FCX-12-3Y

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Optimized *10GIG*™ 50/125µm (OM3) Multimode MTP* Cassettes			
FCXO-12-10Y	Six LC duplex adapters to one male MTP*; 12-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	1	10
FCXO-24-10Y	Twelve LC duplex adapters to two male MTPs*; 24-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	1	10
FCXO-12-3Y	Six SC duplex adapters to one male MTP*; 12-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	1	10
***10GIG*™ 50/125µm (OM3) Multimode MTP* Cassettes**			
FCX-12-10Y	Six LC duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	1	10
FCX-24-10Y	Twelve LC duplex adapters to two male MTPs*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	1	10
FCX-12-3SY	Twelve SC simplex adapters to one male MTP*; twelve fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	1	10
FCX-12-3Y	Six SC duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	1	10
50/125µm (OM2) Multimode MTP* Cassettes			
FC5-12-10Y	Six LC duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	1	10
FC5-24-10Y	Twelve LC duplex adapters to two male MTPs*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	1	10
FC5-12-3SY	Twelve SC simplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	1	10
FC5-12-3Y	Six SC duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	1	10

For MTP* Connector Cleaning Tools, see page C.107.

*MTP is a registered trademark of US Conec Ltd.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

QuickNet™ MTP* Fiber Optic Cassettes (continued)



FC6-12-10Y



FC6-24-10Y



FC6STMFCMY



FC8FJMFCSY

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
62.5/125µm (OM1) Multimode MTP* Cassettes			
FC6-12-10Y	Six LC duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	1	10
FC6-24-10Y	Twelve LC duplex adapters to two male MTPs*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	1	10
FC6-12-3SY	Twelve SC simplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	1	10
FC6-12-3Y	Six SC duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	1	10
FC6-6-3	Three SC duplex adapters to one male MTP*; 6-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	1	10
FC6STMFCMY	Six ST simplex adapters to one male MTP*; 6-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	1	10
FC8FJMFCMY	Four FJ® Duplex Jack Modules to one male MTP*; 8-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	1	10
9/125µm (OS1/OS2) Singlemode MTP* Cassettes			
FC9-12-10Y	Six LC duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; singlemode (OS1/OS2) fiber.	1	10
FC9-24-10Y	Twelve LC duplex adapters to two male MTPs*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; singlemode (OS1/OS2) fiber.	1	10
FC9-12-3SY	Twelve SC simplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; singlemode (OS1/OS2) fiber.	1	10
FC9-12-3Y	Six SC duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; singlemode (OS1/OS2) fiber.	1	10
FC9-6-3	Three SC duplex adapters to one male MTP*; 6-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 9/125µm (OS1/OS2) fiber.	1	10
FC6STMFCSY	Six ST simplex adapters to one male MTP*; 6-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; singlemode (OS1/OS2) fiber.	1	10
FC8FJMFCSY	Four FJ® Duplex Jack Modules to one male MTP*; 8-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; singlemode (OS1/OS2) fiber.	1	10
62.5/125µm (OM1) Multimode Pigtail Cassettes			
FC6SCMP5Y	Three SC duplex adapters to 5 meter pigtail; 6-fiber pre-terminated pigtail cassette; 62.5/125µm (OM1) fiber.	1	10
FC12SCMP5Y	Six SC duplex adapters to 5 meter pigtail; 12-fiber pre-terminated pigtail cassette; 62.5/125µm (OM1) fiber.	1	10
FC6STMP5Y	Six ST simplex adapters to 5 meter pigtail; 6-fiber pre-terminated pigtail cassette; 62.5/125µm (OM1) fiber.	1	10
FC8FJMP5Y	Four FJ® Duplex Jack Modules to 5 meter pigtail; 8-fiber pre-terminated pigtail cassette; multimode (OM1) fiber.	1	10
9/125µm (OS1/OS2) Singlemode Pigtail Cassettes			
FC6SCSP5Y	Three SC duplex adapters to 5 meter pigtail; 6-fiber pre-terminated pigtail cassette; singlemode (OS1/OS2) fiber.	1	10
FC12SCSP5Y	Six SC duplex adapters to 5 meter pigtail; 12-fiber pre-terminated pigtail cassette; singlemode (OS1/OS2) fiber.	1	10
FC6STSP5Y	Six ST simplex adapters to 5 meter pigtail; 6-fiber pre-terminated pigtail cassette; singlemode (OS1/OS2) fiber.	1	10
FC8FJSP5Y	Four FJ® Duplex Jack Modules to 5 meter pigtail; 8-fiber pre-terminated pigtail cassette; singlemode (OS1/OS2) fiber.	1	10

For MTP* Connector Cleaning Tools, see page C.107.
*MTP is a registered trademark of US Conec Ltd.

NEW!

Keyed LC *QuickNet*™ MTP* Fiber Optic Cassettes

- Include color-specific keys with positive and negative keying features to visually and mechanically distinguish connections to prevent unauthorized mating with unlike keyed or non-keyed connectors and patch cords
- Part of a complete keyed LC system that includes *Opti-Core*® Patch Cords and Pigtails, *OptiCam*® Pre-Polished Cam Connectors, *Opticom*® Fiber Adapter Panels (FAPs) and *Mini-Com*® Adapter Modules
- Compatible with *Opticom*® *QuickNet*™ Rack Mount Fiber Cassette Enclosures on page C.59, *Opticom*® Zero RU Cable Management Solutions on page C.62, and *Opticom*® Wall Mount Enclosures on page C.65, for up to 96 fiber connections in 1RU
- Low insertion loss of 0.5dB max. per optimized cassette and 1.0dB max. per standard cassette; ensures system meets IEEE 802.3ae max. channel loss specification of <2.6dB
- Return loss: ≥26dB (*10GIG*™ multimode), ≥20dB (multimode), ≥55dB (singlemode)
- Connect together with high-density female MTP* cable assemblies as interconnecting network segments for deploying a remote or data center location in minutes
- Significantly reduce installation time and labor by eliminating field connector terminations
- Factory terminated, assembled, and 100% tested
- Insertion loss data provided on every fiber cassette
- Return loss data provided on all singlemode fiber cassettes
- Lifetime traceability of test data to a Q.C. number on each fiber cassette
- *10GIG*™ OM3 50/125µm Fiber Cassettes are tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters at 850nm; backward compatible with all 50/125µm (OM2) MPO or MTP* system requirements



FCXO-24-10ABL



FCXO-24-10BRD

Part Number	Part Description	Key Type and Color	Std. Pkg. Qty.	Std. Ctn. Qty.
Keyed LC Optimized *10GIG*™ 50/125µm (OM3) Multimode MTP* Cassettes				
FCXO-12-10ABL	Six LC (keyed A – black) duplex adapters to one male MTP*; 12-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed A – Black	1	10
FCXO-12-10BRD	Six LC (keyed B – red) duplex adapters to one male MTP*; 12-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed B – Red	1	10
FCXO-12-10CGR	Six LC (keyed C – green) duplex adapters to one male MTP*; 12-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed C – Green	1	10
FCXO-12-10DYL	Six LC (keyed D – yellow) duplex adapters to one male MTP*; 12-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed D – Yellow	1	10
FCXO-12-10EOR	Six LC (keyed E – orange) duplex adapters to one male MTP*; 12-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed E – Orange	1	10
FCXO-12-10FDB	Six LC (keyed F – dark blue) duplex adapters to one male MTP*; 12-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed F – Dark Blue	1	10
FCXO-24-10ABL	Twelve LC (keyed A – black) duplex adapters to one male MTP*; 24-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed A – Black	1	10
FCXO-24-10BRD	Twelve LC (keyed B – red) duplex adapters to one male MTP*; 24-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed B – Red	1	10
FCXO-24-10CGR	Twelve LC (keyed C – green) duplex adapters to one male MTP*; 24-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed C – Green	1	10
FCXO-24-10DYL	Twelve LC (keyed D – yellow) duplex adapters to one male MTP*; 24-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed D – Yellow	1	10

For MTP* Connector Cleaning Tools, see page C.107.

*MTP is a registered trademark of US Conec Ltd.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Keyed LC *QuickNet*™ MTP* Fiber Optic Cassettes (continued)



FCX-24-10CGR

Part Number	Part Description	Key Type and Color	Std. Pkg. Qty.	Std. Ctn. Qty.
FCXO-24-10EOR	Twelve LC (keyed E – orange) duplex adapters to one male MTP*; 24-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed E – Orange	1	10
FCXO-24-10FDB	Twelve LC (keyed F – dark blue) duplex adapters to one male MTP*; 24-fiber optimized pre-terminated MTP* cassette provides low insertion loss of 0.5dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed F – Dark Blue	1	10
Keyed LC *10GIG*™ 50/125µm (OM3) Multimode MTP* Cassettes				
FCX-12-10ABL	Six LC (keyed A – black) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed A – Black	1	10
FCX-12-10BRD	Six LC (keyed B – red) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed B – Red	1	10
FCX-12-10CGR	Six LC (keyed C – green) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed C – Green	1	10
FCX-12-10DYL	Six LC (keyed D – yellow) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed D – Yellow	1	10
FCX-12-10EOR	Six LC (keyed E – orange) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed E – Orange	1	10
FCX-12-10FDB	Six LC (keyed F – dark blue) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed F – Dark Blue	1	10
FCX-24-10ABL	Twelve LC (keyed A – black) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed A – Black	1	10
FCX-24-10BRD	Twelve LC (keyed B – red) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed B – Red	1	10
FCX-24-10CGR	Twelve LC (keyed C – green) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed C – Green	1	10
FCX-24-10DYL	Twelve LC (keyed D – yellow) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed D – Yellow	1	10
FCX-24-10EOR	Twelve LC (keyed E – orange) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed E – Orange	1	10
FCX-24-10FDB	Twelve LC (keyed F – dark blue) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; *10GIG*™ 50/125µm (OM3) fiber.	Keyed F – Dark Blue	1	10

For MTP* Connector Cleaning Tools, see page C.107.
*MTP is a registered trademark of US Conec Ltd.

Table continues on page C.56

Keyed LC *QuickNet*™ MTP* Fiber Optic Cassettes (continued)



FC5-24-10DYL

Part Number	Part Description	Key Type and Color	Std. Pkg. Qty.	Std. Ctn. Qty.
Keyed LC 50/125µm (OM2) Multimode MTP* Cassettes				
FC5-12-10ABL	Six LC (keyed A – black) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	Keyed A – Black	1	10
FC5-12-10BRD	Six LC (keyed B – red) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	Keyed B – Red	1	10
FC5-12-10CGR	Six LC (keyed C – green) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	Keyed C – Green	1	10
FC5-12-10DYL	Six LC (keyed D – yellow) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	Keyed D – Yellow	1	10
FC5-12-10EOR	Six LC (keyed E – orange) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	Keyed E – Orange	1	10
FC5-12-10FDB	Six LC (keyed F – dark blue) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	Keyed F – Dark Blue	1	10
FC5-24-10ABL	Twelve LC (keyed A – black) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	Keyed A – Black	1	10
FC5-24-10BRD	Twelve LC (keyed B – red) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	Keyed B – Red	1	10
FC5-24-10CGR	Twelve LC (keyed C – green) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	Keyed C – Green	1	10
FC5-24-10DYL	Twelve LC (keyed D – yellow) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	Keyed D – Yellow	1	10
FC5-24-10EOR	Twelve LC (keyed E – orange) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	Keyed E – Orange	1	10
FC5-24-10FDB	Twelve LC (keyed F – dark blue) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 50/125µm (OM2) fiber.	Keyed F – Dark Blue	1	10

For MTP* Connector Cleaning Tools, see page C.107.

*MTP is a registered trademark of US Conec Ltd.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Keyed LC *QuickNet*™ MTP* Fiber Optic Cassettes (continued)



FC6-24-10EOR

Part Number	Part Description	Key Type and Color	Std. Pkg. Qty.	Std. Ctn. Qty.
Keyed LC 62.5/125µm (OM1) Multimode MTP* Cassettes				
FC6-12-10ABL	Six LC (keyed A – black) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	Keyed A – Black	1	10
FC6-12-10BRD	Six LC (keyed B – red) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	Keyed B – Red	1	10
FC6-12-10CGR	Six LC (keyed C – green) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	Keyed C – Green	1	10
FC6-12-10DYL	Six LC (keyed D – yellow) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	Keyed D – Yellow	1	10
FC6-12-10EOR	Six LC (keyed E – orange) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	Keyed E – Orange	1	10
FC6-12-10FDB	Six LC (keyed F – dark blue) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	Keyed F – Dark Blue	1	10
FC6-24-10ABL	Twelve LC (keyed A – black) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	Keyed A – Black	1	10
FC6-24-10BRD	Twelve LC (keyed B – red) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	Keyed B – Red	1	10
FC6-24-10CGR	Twelve LC (keyed C – green) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	Keyed C – Green	1	10
FC6-24-10DYL	Twelve LC (keyed D – yellow) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	Keyed D – Yellow	1	10
FC6-24-10EOR	Twelve LC (keyed E – orange) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	Keyed E – Orange	1	10
FC6-24-10FDB	Twelve LC (keyed F – dark blue) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 62.5/125µm (OM1) fiber.	Keyed F – Dark Blue	1	10

For MTP* Connector Cleaning Tools, see page C.107.
*MTP is a registered trademark of US Conec Ltd.

Table continues on page C.58

Keyed LC *QuickNet*™ MTP* Fiber Optic Cassettes (continued)



FC9-24-10FDB

Part Number	Part Description	Key Type and Color	Std. Pkg. Qty.	Std. Ctn. Qty.
Keyed LC 9/125µm (OS1/OS2) Singlemode Pre-Terminated MTP* Cassettes				
FC9-12-10ABL	Six LC (keyed A – black) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 9/125µm (OS1/OS2) fiber.	Keyed A – Black	1	10
FC9-12-10BRD	Six LC (keyed B – red) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 9/125µm (OS1/OS2) fiber.	Keyed B – Red	1	10
FC9-12-10CGR	Six LC (keyed C – green) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 9/125µm (OS1/OS2) fiber.	Keyed C – Green	1	10
FC9-12-10DYL	Six LC (keyed D – yellow) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 9/125µm (OS1/OS2) fiber.	Keyed D – Yellow	1	10
FC9-12-10EOR	Six LC (keyed E – orange) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 9/125µm (OS1/OS2) fiber.	Keyed E – Orange	1	10
FC9-12-10FDB	Six LC (keyed F – dark blue) duplex adapters to one male MTP*; 12-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 9/125µm (OS1/OS2) fiber.	Keyed F – Dark Blue	1	10
FC9-24-10ABL	Twelve LC (keyed A – black) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 9/125µm (OS1/OS2) fiber.	Keyed A – Black	1	10
FC9-24-10BRD	Twelve LC (keyed B – red) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 9/125µm (OS1/OS2) fiber.	Keyed B – Red	1	10
FC9-24-10CGR	Twelve LC (keyed C – green) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 9/125µm (OS1/OS2) fiber.	Keyed C – Green	1	10
FC9-24-10DYL	Twelve LC (keyed D – yellow) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 9/125µm (OS1/OS2) fiber.	Keyed D – Yellow	1	10
FC9-24-10EOR	Twelve LC (keyed E – orange) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 9/125µm (OS1/OS2) fiber.	Keyed E – Orange	1	10
FC9-24-10FDB	Twelve LC (keyed F – dark blue) duplex adapters to one male MTP*; 24-fiber pre-terminated MTP* cassette provides low insertion loss of 1.0dB max. per fiber; 9/125µm (OS1/OS2) fiber.	Keyed F – Dark Blue	1	10

For MTP* Connector Cleaning Tools, see page C.107.

*MTP is a registered trademark of US Conec Ltd.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

OPTICOM® QUICKNET™ Rack Mount Fiber Cassette Enclosures

- Mount to standard EIA 19" rack rails
- Hold QUICKNET™ Fiber Optic Cassettes on pages C.52 – C.58, QUICKNET™ or OPTICOM® Fiber Adapter Panels on pages C.45 – C.50, and OPTICOM® Fiber Optic Splice Modules on page C.67
- Suitable for all pre-terminated, field terminated, or field-splice applications
- Up to four cassettes or FAPs per rack unit for maximum patch field density
- Slide-out, tilt-down drawer provides full front access to all fibers and cables
- Integral bend radius control and cable management for fiber optic patch cords
- Innovative rear cable management for proper slacking/spooling of trunk cable break-outs and interconnect cables
- Multiple trunk cable entry locations
- Include fiber optic cable routing kit (grommets, cable ties, spools, strain relief bracket and ID/caution labels) for various cable management solutions



FCE1U



FCE2U



FCE4U

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
FCE1U	Holds up to four QUICKNET™ Cassettes, FAP adapter panels, or FOSM splice modules. Dimensions: 1.73"H x 17.60"W x 16.30"D (43.9mm x 447.0mm x 414.0mm)	1	1
FCE1UA	Open access version of FCE1U enclosure. Holds up to four QUICKNET™ Cassettes, FAP adapter panels, or FOSM splice modules. Dimensions: 1.73"H x 17.60"W x 16.30"D (43.9mm x 447.0mm x 414.0mm)	1	1
FCE2U	Holds up to eight QUICKNET™ Cassettes, FAP adapter panels, or FOSM splice modules. Dimensions: 3.48"H x 17.60"W x 16.30"D (88.4mm x 447.0mm x 414.0mm)	2	1
FCE4U	Holds up to twelve QUICKNET™ Cassettes, FAP adapter panels, or FOSM splice modules. Dimensions: 6.98"H x 17.60"W x 16.30"D (177.0mm x 447.0mm x 414.0mm)	4	1

^One rack space = 1.75" (44.5mm).

OPTICOM® Rack Mount Fiber Enclosures

- Mount to standard 19" or 23" EIA rack or cabinet
- Hold *QUICKNET*™ or *OPTICOM*® Fiber Adapter Panels (FAPs) on pages C.45 – C.50, and *OPTICOM*® Fiber Optic Splice Modules on page C.67
- Front and rear access on all models via durable molded-hinge doors
- Integral bend radius control and cable management for fiber patch cords
- Multiple trunk cable entry locations
- Include fiber optic cable routing kit (grommets, cable ties, saddle clips, strain relief bracket and ID/caution labels) for various cable management solutions



FRME1U



FRME2U



FRME3



FRME4

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
FRME1U	Holds up to three FAP or FMP adapter panels or FOSM splice modules. Bidirectional sliding drawers provides front and rear access to fibers. Dimensions: 1.74"H x 17.00"W x 14.20"D (44.0mm x 432.0mm x 361.0mm)	1	1
FRME2U	Holds up to six FAP or FMP adapter panels or FOSM splice modules. Bidirectional sliding drawers provides front and rear access to fibers. Dimensions: 3.48"H x 17.00"W x 14.20"D (88.0mm x 432.0mm x 361.0mm)	2	1
FRME3	Holds up to nine FAP or FMP adapter panels. Fixed bulkhead design. Dimensions: 5.00"H x 17.16"W x 11.80"D (127.0mm x 433.3mm x 292.1mm)	3	1
FRME4	Holds up to twelve FAP or FMP adapter panels. Fixed bulkhead design. Dimensions: 6.62"H x 17.16"W x 11.80"D (168.1mm x 433.3mm x 292.1mm)	4	1

^One rack space = 1.75" (44.45mm).
Optional locks available for rack mount enclosures.
All product color is black.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

OPTICOM® Rack Mount Fiber Trays

- Mount to standard EIA 19" rack rails
- Standard front or angled front options
- Use with *OPTICOM*® Fiber Adapter Patch Panels (below) to protect fibers and terminations
- Can be used as a back box for select *MINI-COM*® Patch Panels
- Removable top cover provides access to connections, fibers, and slack storage in rear of tray
- Multiple trunk cable entry locations provided on rear and sides of enclosure
- Include fiber optic cable routing kit (grommets, cable ties, spools, strain relief bracket and ID/caution labels) for various cable management solutions
- For fiber optic splicing solutions see page C.67



FMT1



FMT2

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
Standard Fiber Mount Trays			
FMT1	Mount with CFAPPBL1 fiber adapter patch panel to hold up to four *QUICKNET*™ Cassettes, FAP, and FMP adapter panels. Dimensions: 1.75"H x 17.16"W X 11.16"D (44.4mm x 433.3mm x 283.5mm)	1	1
FMT2	Mount with CFAPPBL2 fiber adapter patch panel to hold up to eight *QUICKNET*™ Cassettes, FAP, or FMP adapter panels. Dimensions: 3.48"H x 17.16"W x 11.16"D (88.3mm x 433.3mm x 283.5mm)	2	1
Angled Fiber Mount Trays			
FMT1A	Mount with CFAPPBL1A angled fiber adapter patch panel to hold up to four FAP or FMP adapter panels. Dimensions: 1.75"H x 17.16"W X 11.16"D (44.4mm x 433.3mm x 283.5mm)	1	1
FMT2A	Mount with CFAPPBL2A angled fiber adapter patch panel to hold up to eight FAP or FMP adapter panels. Dimensions: 3.48"H x 17.16"W x 11.16"D (88.3mm x 433.3mm x 283.5mm)	2	1

^One rack space = 1.75" (44.45mm).
All product color is black.

OPTICOM® Fiber Adapter Patch Panels

- Mount to standard EIA 19" rack rails
- Standard version holds both *QUICKNET*™ Fiber Optic Cassettes and *OPTICOM*® Fiber Adapter Panels
- Angled version holds *OPTICOM*® Fiber Adapter Panels and matches *MINI-COM*® Angled Patch Panel profile
- Use with *OPTICOM*® Rack Mount Fiber Trays (above) to protect fibers and terminations



CFAPPBL1



CFAPPBL2

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
Standard Fiber Adapter Patch Panels			
CFAPPBL1	Flat fiber patch panel. Holds up to four FAP or FMP adapter panels.	1	1
CFAPPBL2	Flat fiber patch panel. Holds up to eight FAP or FMP adapter panels.	2	1
Angled Fiber Adapter Patch Panels			
CFAPPBL1A	Angled fiber patch panel. Holds up to four FAP or FMP adapter panels.	1	1
CFAPPBL2A	Angled fiber patch panel. Holds up to eight FAP or FMP adapter panels.	2	1

^One rack space = 1.75" (44.45mm).
All product color is black.

OPTICOM® Zero RU Cable Management Solutions

- Mount directly to rack or enclosure to provide location, connection, and quick deployment of *QUICKNET*™ or *OPTICOM*® Fiber Adapter Panels (pages C.45 – C.50) or *QUICKNET*™ MTP* Cassettes (pages C.52 – C.58) without using additional rack space
- Can be used with *QUICKNET*™ MPO/MTP* Fiber Adapter Panels on page C.45 and *QUICKNET*™ Hydra Cable Assemblies on page C.93 to facilitate connection to the active equipment
- Angled bracket includes adhesive foam tape and magnetic strip for mounting to rack
- Standard straight bracket screws directly to rack or enclosure



FEABRUA



FEABRU

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FEABRUA	Zero RU adhesive or magnetic mount 90° angle fiber enclosure adapter panel bracket.	1	10
FEABRU	Zero RU screw mount fiber enclosure adapter panel bracket.	1	10

*MTP is a registered trademark of US Conec Ltd.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

QuickNet™ Patch Panels

- Accept *QuickNet*™ SFQ Series MTP* Fiber Optic Cassettes and *QuickNet*™ Copper Cable Assemblies which snap in and out with one hand
- High-density patch panels conserve valuable rack space
- Angled patch panels facilitate proper bend radius control and minimize the need for horizontal cable managers
- Pre-printed numbers above each port for easy identification
- Mount to standard EIA 19" racks or 23" racks with optional extender brackets
- Optional patch panel adapter (QPPABL) accepts all *Mini-Com*® Modules for UTP, fiber optic, and audio/visual applications
- Optional patch panel blank (QPPBBL) promotes proper airflow and cooling
- Label/label cover kit (QPPLC24) provides port and panel identification for 24-port patch panels


QAPP24BL


QAPP48HDBL


QPP24BL


QPP48HDBL


QPPABL


QPPBBL

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
QuickNet™ Angled Patch Panels				
QAPP24BL	24-port angled patch panel which accepts *QuickNet*™ Pre-Terminated Cassettes and Patch Panel Adapters.	1	1	10
QAPP48HDBL	48-port angled patch panel which accepts *QuickNet*™ Pre-Terminated Cassettes and Patch Panel Adapters.	1	1	10
QAPP48HDVNSBL	48-port angled patch panel which accepts *QuickNet*™ Pre-Terminated Cassettes and Patch Panel Adapters. Numbering sequence is top to bottom across patch panel.	1	1	10
QuickNet™ Patch Panels				
QPP24BL	24-port patch panel which accepts *QuickNet*™ Pre-Terminated Cassettes and Patch Panel Adapters.	1	1	10
QPP48HDBL	48-port patch panel which accepts *QuickNet*™ Pre-Terminated Cassettes and Patch Panel Adapters.	1	1	10
QPP48HDVNSBL	48-port patch panel which accepts *QuickNet*™ Pre-Terminated Cassettes and Patch Panel Adapters. Numbering sequence is top to bottom across patch panel.	1	1	10
Patch Panel Adapter				
QPPABL	*QuickNet*™ Patch Panel Adapter which accepts *Mini-Com*® Modules for fiber optic, UTP, and audio/visual applications.	—	1	10
Patch Panel Blank				
QPPBBL	*QuickNet*™ Patch Panel Blank reserves space for future use and promotes proper airflow and cooling.	—	1	10
Patch Panel Label Kit				
QPPLC24	Label/label cover kit for 24-port *QuickNet*™ Patch Panels. Each kit contains four labels and four clear label covers per bag.	—	1	10

*MTP is a registered trademark of US Conec Ltd.
^One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.
QuickNet™ SFQ Series MTP* Fiber Optic Cassettes available on page C.51
QuickNet™ Pre-Terminated Copper Cable Assemblies available on pages B.6 – B.7.

MINI-COM® Modular Faceplate Patch Panels

- Angled patch panels facilitate proper bend radius control and minimize the need for horizontal cable managers
- Accept *MINI-COM*® Modules for fiber optic, UTP, and audio/video, which snap in and out for easy moves, adds, and changes
- Label versions available for easy port identification; replacement label/label covers available
- Mount to standard EIA 19" racks or 23" racks with optional extender brackets on page L.40



CPPLA24WBLY



CPPLA48WBLY



CPPL24WBLY



CPPL48WBLY



C4PPLK

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
	***MINI-COM*® Angled Modular Patch Panels with Labels**			
CPPLA24WBLY	24-port angled patch panel with labels, supplied with six factory installed CFFPL4 type front removable snap-in faceplates.	1	1	10
CPPLA48WBLY	48-port angled patch panel with labels, supplied with twelve factory installed CFFPL4 type front removable snap-in faceplates.	2	1	10
	***MINI-COM*® Modular Patch Panels with Labels**			
CPPL24WBLY	24-port patch panel with labels, supplied with six factory installed CFFPL4 type front removable snap-in faceplates.	1	1	10
CPPL48WBLY	48-port patch panel with labels, supplied with twelve factory installed CFFPL4 type front removable snap-in faceplates.	2	1	10
	Replacement Labels for *MINI-COM*® Modular Patch Panels			
C4PPLK	Replacement label/label cover kit for *MINI-COM*® Modular Patch Panels with Labels (CPPL24WBLY, CPPL48WBLY, CPPL24WRBLY, CPPL48WRBLY) and *MINI-COM*® Modular Furniture Faceplates with Labels (CFFPL4, CFPHSL4, CFFPEBSL4). Each kit contains six labels and six clear label covers per bag.	—	1	10

^ One rack space = 1.75" (44.45mm).
M6 and #12-24 mounting screws included.

Component Labels for *MINI-COM*® Modular Faceplate Patch Panels



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
All Patch Panels on this Page	**C261X035Y1J**	**C261X035Y1T**	**C261X035Y1C**	**T038X000FJC-BK‡**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For non-adhesive labeling solution, do not remove liner from label.

OPTICOM® Wall Mount Enclosures

- Hold *QUICKNET*™ MTP* Cassettes on pages C.52 – C.58 and *QUICKNET*™ or *OPTICOM*® Fiber Adapter Panels (FAPs) on pages C.45 – C.50
- Rugged all metal construction for fiber protection and secure mounting
- Compact design allows installation in tight areas
- Separate doors for service side and user side with optional keyed locks for added security
- Include fiber optic cable routing kit (grommets, cable ties, spools, strain relief bracket and ID/caution labels) for various cable management solutions



FWME2



FWME4

Part Number	Part Description	Std. Pkg. Qty.
Fiber Wall Mount Enclosures		
FWME2	Holds up to two *QUICKNET*™ Cassettes, FAP, or FMP panels. Dimensions: 12.00"W x 10.18"H x 2.32"D (304.8mm x 258.6mm x 59.1mm)	1
FWME4	Holds up to four *QUICKNET*™ Cassettes, FAP, or FMP panels. Dimensions: 16.11"W x 12.25"H x 3.52"D (409.2mm x 311.0mm x 89.4mm)	1
FWME8	Holds up to eight *QUICKNET*™ Cassettes, FAP, or FMP panels. Dimensions: 16.11"W x 16.11"H x 5.00"D (409.2mm x 409.2mm x 127.0mm)	1
Fiber Accessories		
FELS	Fiber enclosure lock for service side.	1
FELU	Fiber enclosure lock for user side.	1

All product color is black.
*MTP is a registered trademark of US Conec Ltd.

OPTICOM® Fiber Slack Management Accessories

- Slack management and cable routing accessories for use in *OPTICOM*® Rack Mount and Wall Mount Fiber Enclosures
- Maintain minimum bend radius and ensure proper cable management
- Smooth rounded edges on all surfaces eliminate potential for snagging and stress on fiber optic cables



FMS1



FMSS



FEBRC



FMFIN



VWS106



VWSDC

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Fiber Slack Management Spools			
FMS1	Spools and manages fiber slack in *OPTICOM*® 1RU Rack Mount Fiber Enclosures. Features fiber retention tabs and fingers. Comes with two spools and adhesive mounts. Dimensions: 1.00"H x 4.00" dia. (25.4mm x 100.0mm)	1	10
FMS2	Spools and manages fiber slack in *OPTICOM*® 2RU or 4RU Rack Mount Fiber Enclosures. Features fiber retention tabs and fingers. Comes with two spools and adhesive mounts. Dimensions: 1.60"H x 4.00"dia. (40.6mm x 100.0mm)	1	10
FMSS	Top-hat style fiber slack spool for *OPTICOM*® Wall Mount Enclosures. Single spool with adhesive mount. Dimensions: 1.25"H x 2.50" dia. spool, 3.25" dia. flange (31.8mm x 63.5mm spool, 82.6mm flange)	1	10
Bend Radius Control Accessories			
FEBRC	Fiber enclosure bend radius control clip for use with *OPTICOM*® 1RU and 2RU Rack Mount Enclosures. Maintains proper bend radius control of fiber patch cords from patch field to vertical fiber manager; includes two bend radius control clips. Dimensions: 1.50"H x .09"W x 3.10"D (79.8mm x 21.8mm x 39.1mm)	1	—
FMFIN	Fiber manager fin; individual fiber management fin with NyLatch fastener for attachment to FCE4U *OPTICOM*® Fiber Cassette Enclosure front patch cord manager. Dimensions: 3.60"H x 1.00"dia. (92.1mm x 25.4mm)	1	—
PZBR3.5	Bend Radius Post Kit for use with FCE4U *OPTICOM*® Fiber Cassette Enclosure; 3.5" (89mm) long. Maintains proper bend radius control of fiber patch cords within patch field; includes two bend radius posts and hardware.	1	10
Accessories For Rack Mount Enclosures			
VWS106-C	Single saddle clip for fiber slack management and fiber patch cord routing. Accepts up to 1.06" dia (26.9mm) cable bundle. Nylon 6.6 material, natural color. Push mount into 0.18" (4mm) pre-drilled holes in *OPTICOM*® Fiber Enclosures.	100	500
VWSDC-C	Dual saddle clip for fiber slack management and fiber patch cord routing. Accepts two cable bundles up to 1.06" dia (26.9mm) each. Nylon 6.6 material, natural color. Push mount into 0.18" (4mm) pre-drilled holes in *OPTICOM*® Fiber Enclosures.	100	500

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

OPTICOM® Splice Modules, Trays, and Holders



FOSMF



FST24



FST6



FSTK

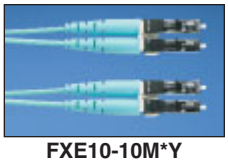


FSC24

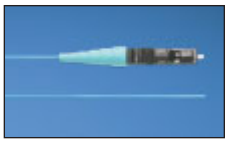
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Fiber Optic Splice Modules			
FOSMF	Fiber optic splice module holds and protects up to 24 fusion splices. Self-stacking modules with integral cable management and fiber slacking/spooling features. Black plastic base and clear plastic hinged cover. For use with any *PANDUIT*® *OPTICOM*® Rack Mount Enclosure. Dimensions: 0.30"H x 14.03"W x 5.28"D (7.6mm x 356.4mm x 134.1mm)	1	—
FOSMM	Fiber optic splice module holds and protects up to 12 mechanical splices. Self-stacking modules with integral cable management and fiber slacking/spooling features. Black plastic base and clear plastic hinged cover. For use with any *PANDUIT*® *OPTICOM*® Rack Mount Enclosure. Dimensions: 0.30"H x 14.03"W x 5.28"D (7.6mm x 356.4mm x 134.1mm)	1	—
FOSMH1U	Fiber optic splice module holder, 1 RU. Holds up to four FOSM splice modules. For use with FCE1U or FCE1UA fiber cassette enclosure. Dimensions: 1.41"H x 0.72"W x 2.61"D (35.9mm x 18.3mm x 66.4mm)	1	10
FOSMH2U	Fiber optic splice module handler, 2 RU. Holds up to eight FOSM splice modules. For use with FCE2U fiber cassette enclosure. Dimensions: 2.91"H x 0.72"W x 2.61"D (74.0mm x 18.3mm x 66.4mm)	1	10
FOSMH4U	Fiber optic splice module holder, 4 RU. Holds up to twelve FOSM splice modules. For use with FCE4U fiber cassette enclosure. Dimensions: 5.50"H x10.42"W x 5.41"D (139.7mm x 264.7mm x 137.4mm)	1	—
Metal Splice Tray and Holder – 24-Splice Increment			
FST24	Fiber splice tray kit for up to 24 mechanical or fusion splices or 144 ribbon fusion splices. Fits in *PANDUIT* FRME3 and FRME4 rack mount enclosures. Stacks up to three high using FST24H3 stacking unit. Dimensions: 0.37"H x 4.38"W x 11.75"L (9.4mm x 111.3mm x 298.5mm)	1	10
FST24H3	Stacking holder for FST24 fiber splice tray with built in fiber spooling. Holds and secures one to three splice trays with *PANDUIT*® *TAK-TY*® Cable Ties. Mounting hardware included. For use with FRME3 and FRME4 rack mount enclosures. Dimensions: 2.07"H x 4.56"W x 11.61"L (52.6mm x 115.8mm x 294.9mm)	1	10
Metal Splice Tray and Holder – 12-Splice Increment			
FST6	Fiber splice tray kit for up to twelve mechanical or fusion splices. Fits in *PANDUIT* FMT, FWME4, and FWME8 series enclosures. Stack up to four high using FSTHE stacking unit in rack mount enclosures or using FST6H4 stacking unit in wall mount enclosures. Dimensions: 0.40"H x 4.42"W x 7.90"L (10.2mm x 112.3mm x 200.7mm)	1	10
FSTHE	Stacking holder for FST6 fiber splice tray. Holds and secures one to four splice trays (FST6) with *PANDUIT*®*TAK-TY*® Cable Ties. Mount with included adhesive strips or mounting screws. Dimensions: 1.75"H x 4.56"W x 8.06"L (44.5mm x 115.8mm x 204.7mm)	1	10
Metal Splice Tray and Holder – 6-Splice Increment			
FSTK	Fiber splice tray kit for up to six mechanical or fusion splices. Stack up to two high using FSTHS stacking holder. For use in FWME2 wall mount enclosure. Dimensions: 0.40"H x 3.40"W x 6.60"L (10.2mm x 86.4mm x 167.6mm)	1	10
FSTHS	Stacking holder for FSTK fiber splice tray with built-in fiber spooling. Holds and secures one/two splice tray(s) with *PANDUIT*® *TAK-TY*® Cable Ties. Mount with existing enclosure hardware. For use in FWME2 wall mount enclosure. Dimensions: 1.62"H x 3.50"W x 6.50"L (41.1mm x 88.9mm x 167.6mm)	1	10
Fiber Splice Chip			
FSC24	Accommodates and protects up to 24 fusion splices. Comes with label, clear cover, and adhesive mount. For use with any *PANDUIT*® *OPTICOM*® Enclosure. Dimensions: 0.50"H x 3.12"W x 2.47"D (12.7mm x 79.4mm x 62.7mm)	1	10

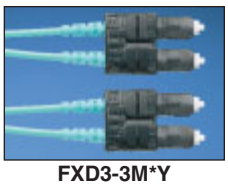
OPTI-CORE® 10GIG™ 50/125µm (OM3) Fiber Optic Patch Cords and Pigtails

- Available in riser (OFNR) or plenum (OFNP) flame ratings; part numbers listed are for OFNR (FXE10-10M1Y)
- For OFNP, place a P after the X in the part number and drop the Y (FXPE10-10M1)
- Patch cords are tested to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters with an 850nm source per IEEE 802.3ae 10 GbE standard
- Pass all TIA/EIA-568-B.3 performance requirements
- LC and SC connector housing and boot colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Insertion loss per connection: 0.10dB typical; 0.30dB maximum
- Backward compatible for use with all 50/125µm system requirements
- Factory terminated and 100% tested for insertion loss
- Insertion loss data recorded for every multimode patch cord
- Lifetime traceability of test data to a Q.C. number on each patch cord
- Highest quality flame retardant fiber optic cable with tight-buffered coating on each optical fiber


FXE10-10M*Y

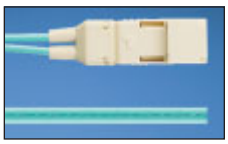

FXF10-10M*Y


FXB10-NM*Y


FXD3-3M*Y


FXB3-NM*Y


FXD6P-6PM*Y


FXD6J-NM*Y

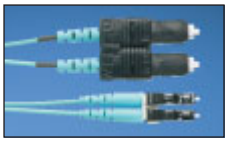

FXB6J-NM*Y

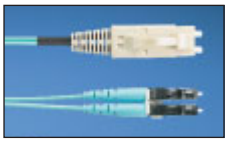
Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
LC to LC – *10GIG™* OM3 Multimode Duplex Patch Cords – 1.6mm Jacketed Cable				
FXE10-10M1Y	LC to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex LC connector on each end) – *10GIG™* 50/125µm.	1	1	10
LC to LC – *10GIG™* OM3 Multimode Simplex Patch Cords – 1.6mm Jacketed Cable				
FXF10-10M1Y	LC to LC multimode simplex patch cord, 1.6mm jacketed cable (one LC connector on each end) – *10GIG™* 50/125µm.	1	1	10
LC to Pigtail – *10GIG™* OM3 Multimode Simplex Pigtails – 900µm Buffered Fiber				
FXB10-NM1Y	LC to pigtail multimode simplex pigtail, 900µm buffered fiber (one LC connector on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10
SC to SC – *10GIG™* OM3 Multimode Duplex Patch Cords – 3mm Jacketed Cable				
FXD3-3M1Y	SC to SC multimode duplex patch cord, 3mm jacketed cable (one duplex SC connector on each end) – *10GIG™* 50/125µm.	1	1	10
SC to Pigtail – *10GIG™* OM3 Multimode Simplex Pigtails – 900µm Buffered Fiber				
FXB3-NM1Y	SC to pigtail multimode simplex pigtail, 900µm buffered fiber (one SC connector on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10
FJ® Plug to FJ® Plug – *10GIG™* OM3 Multimode Duplex Patch Cords – 3mm Jacketed Cable				
FXD6P-6PM1Y	FJ® Plug to FJ® Plug multimode duplex patch cord, 3mm jacketed cable (one FJ® Plug on each end) – *10GIG™* 50/125µm.	1	1	10
FJ® Jack Module to Pigtail – *10GIG™* OM3 Multimode Duplex Patch Cords – 3mm Jacketed Cable				
FXD6J-NM1Y	FJ® Jack Module to pigtail multimode duplex pigtail, 3mm jacketed cable (one FJ® Jack Module on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10
FJ® Jack Module to Pigtail – *10GIG™* OM3 Multimode Duplex Pigtails – 900µm Buffered Fiber				
FXB6J-NM1Y	FJ® Jack Module to pigtail multimode duplex pigtail, 900µm buffered fiber (one FJ® Jack Module on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10

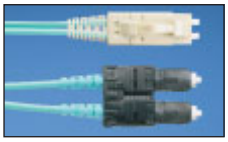
^Additional lengths and availability: Patch cords are available in 1 – 10 meter lengths in 1 meter increments, and 15, 20, 25 and 30 meter lengths. Pigtails are available in 1, 2, and 3 meter lengths. To order lengths other than 1 meter, replace the 1 after the M (FXD3-3M1Y) with the desired length (FXD3-3M2Y for 2 meter length). The above lengths are stock items. For other lengths, contact Customer Service for actual lead times.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

OPTI-CORE® 10GIG™ 50/125µm (OM3) Fiber Optic Patch Cords and Pigtails (continued)


FXE3-10M*Y


FXE6P-10M*Y


FXD6P-3M*Y

Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
SC to LC – *10GIG™* OM3 Multimode Duplex Patch Cords – 1.6mm Jacketed Cable				
FXE3-10M1Y	SC to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex LC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FJ® Plug to LC – *10GIG™* OM3 Multimode Duplex Patch Cords – 1.6mm Jacketed Cable				
FXE6P-10M1Y	FJ® Plug to LC multimode duplex patch cord, 1.6mm jacketed cable (one FJ® Plug on one end and one duplex LC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FJ® Plug to SC – *10GIG™* OM3 Multimode Duplex Patch Cords – 3mm Jacketed Cable				
FXD6P-3M1Y	FJ® Plug to SC multimode duplex patch cord, 3mm jacketed cable (one FJ® Plug on one end and one duplex SC connector on the other end) – *10GIG™* 50/125µm.	1	1	10

^Additional lengths and availability: Patch cords are available in 1 – 10 meter lengths in 1 meter increments, and 15, 20, 25 and 30 meter lengths. Pigtails are available in 1, 2, and 3 meter lengths. To order lengths other than 1 meter, replace the 1 after the M (FXD3-3M1Y) with the desired length (FXD3-3M2Y for 2 meter length). The above lengths are stock items. For other lengths, contact Customer Service for actual lead times.

Cable Self-Laminating Labels for *OPTI-CORE® 10GIG™* 50/125µm (OM3) Fiber Optic Patch Cords and Pigtails



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER™* LS8E Hand-Held Printer Label**	***COUGAR™* LS9 Hand-Held Printer Label**
All FXE parts	**S100X160YAJ and NWSLC-3Y‡**	**S100X150VATY and NWSLC-3Y‡**	**S100X160VAC and NWSLC-3Y‡**	**T100X000CBC-BK and NWSLC-3Y**
All FXD parts	**S100X220YAJ and NWSLC-7Y‡**	**S100X225VATY and NWSLC-7Y‡**	**S100X220VAC and NWSLC-7Y‡**	**T100X000CBC-BK and NWSLC-7Y**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For complete information on fiber optic cable identification solutions, reference page C.92.

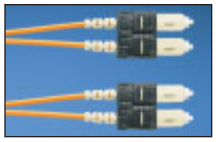
OPTI-CORE® Multimode 62.5/125µm (OM1) or 50/125µm (OM2) Fiber Optic Patch Cords and Pigtails‡

- Available in riser (OFNR) or plenum (OFNP) flame ratings; part numbers listed are for OFNR (F6E10-10M1Y)
- For OFNP, place a P after the 6 (or 5) in the part number and drop the Y (F6PE10-10M1)
- Pass all TIA/EIA-568-B.3 performance requirements
- LC and SC connector housing and boot colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Insertion loss per connection: 0.10dB typical; 0.30dB maximum
- Factory terminated and 100% tested for insertion loss
- Insertion loss data recorded for every multimode patch cord
- Lifetime traceability of test data to a Q.C. number on each patch cord
- Highest quality flame retardant fiber optic cable with tight-buffered coating on each optical fiber
- To order standard 50/125µm performance (orange cable) patch cords, replace the 6 in the part number (F6D3-3M1) with a 5 (F5D3-3M1)


F6E10-10M*Y


F6F10-10M*Y

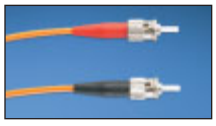

F6B10-NM*Y


F6D3-3M*Y

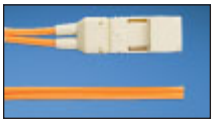

F6S3-3M*Y


F6B3-NM*Y


F6D2-2M*Y


F6S2-2M*Y


F6D6P-6PM*Y


F6D6J-NM*Y

Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
LC to LC – OM1 Multimode Duplex Patch Cords – 1.6mm Jacketed Cable				
F6E10-10M1Y	LC to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex LC connector on each end) – 62.5/125µm.	1	1	10
LC to LC – OM1 Multimode Simplex Patch Cords – 1.6mm Jacketed Cable				
F6F10-10M1Y	LC to LC multimode simplex patch cord, 1.6mm jacketed cable (one LC connector on each end) – 62.5/125µm.	1	1	10
LC to Pigtail – OM1 Multimode Simplex Pigtails – 900µm Buffered Fiber				
F6B10-NM1Y	LC to pigtail multimode simplex pigtail, 900µm buffered fiber (one LC connector on one end and open on the other end) – 62.5/125µm.	1	1	10
SC to SC – OM1 Multimode Duplex Patch Cords – 3mm Jacketed Cable				
F6D3-3M1Y	SC to SC multimode duplex patch cord, 3mm jacketed cable (one duplex SC connector on each end) – 62.5/125µm.	1	1	10
SC to SC – OM1 Multimode Simplex Patch Cords – 3mm Jacketed Cable				
F6S3-3M1Y	SC to SC multimode simplex patch cord, 3mm jacketed cable (one SC connector on each end) – 62.5/125µm.	1	1	10
SC to Pigtail – OM1 Multimode Simplex Pigtails – 900µm Buffered Fiber				
F6B3-NM1Y	SC to pigtail multimode simplex pigtail, 900µm buffered fiber (one SC connector on one end and open on the other end) – 62.5/125µm.	1	1	10
ST to ST – OM1 Multimode Duplex Patch Cords – 3mm Jacketed Cable				
F6D2-2M1Y	ST to ST multimode duplex patch cord, 3mm jacketed cable (two ST connectors on each end) – 62.5/125µm.	1	1	10
ST to ST – OM1 Multimode Simplex Patch Cords – 3mm Jacketed Cable				
F6S2-2M1Y	ST to ST multimode duplex patch cord, 3mm jacketed cable (two ST connectors on each end) – 62.5/125µm.	1	1	10
FJ® Plug to FJ® Plug – OM1 Multimode Duplex Patch Cords – 3mm Jacketed Cable				
F6D6P-6PM1Y	FJ® Plug to FJ® Plug multimode duplex patch cord, 3mm jacketed cable (one FJ® Plug on each end) – 62.5/125µm.	1	1	10
FJ® Jack Module to Pigtail – OM1 Multimode Duplex Pigtails – 3mm Jacketed Cable				
F6D6J-NM1Y	FJ® Jack Module to pigtail multimode duplex patch cord, 3mm jacketed cable (one FJ® Jack Module on one end and open on the other end) – 62.5/125µm.	1	1	10

‡To order standard OM2 50/125µm performance (orange cable) patch cords, replace the 6 in the part number (F6D3-3M1) with a 5 (F5D3-3M1).

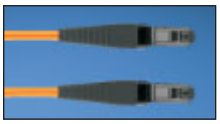
^Additional lengths and availability: Patch cords are available in 1 – 10 meter lengths in 1 meter increments, and 15, 20, 25 and 30 meter lengths. Pigtails are available in 1, 2, and 3 meter lengths. To order lengths other than 1 meter, replace the 1 after the M (F6D3-3M1Y) with the desired length (F6D3-3M2Y for 2 meter length). The above lengths are stock items. For other lengths or male MT-RJs, contact Customer Service for actual lead times.

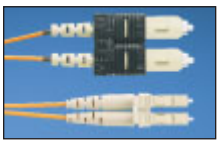
Order number of pieces required, in multiples of Standard Package Quantity.

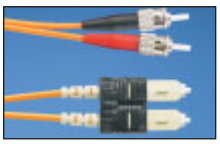
Prime items appear in **BOLD**.

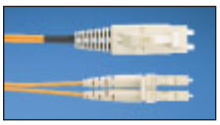
OPTI-CORE® Multimode 62.5/125µm (OM1) or 50/125µm (OM2) Fiber Optic Patch Cords and Pigtails‡ (continued)

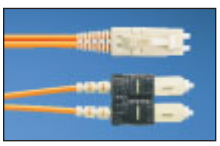

F6B6J-NM*Y

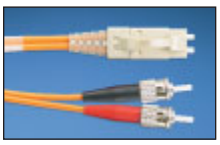

F6Z12-12M

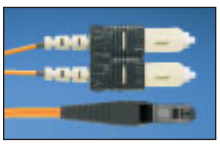

F6E3-10M*Y

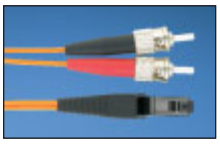

F6D2-3M*Y

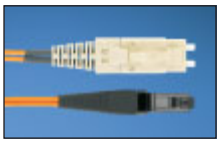

F6E6P-10M*Y


F6D6P-3M*Y


F6D6P-2M*Y


F6Z3-12M


F6Z2-12M


F6Z6P-12M

Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
FJ® Jack Module to Pigtail – OM1 Multimode Duplex Pigtails – 900µm Buffered Fiber				
F6B6J-NM1Y	FJ® Jack Module to pigtail multimode duplex pigtail, 900µm buffered fiber (one FJ® Jack Module on one end and open on the other end) – 62.5/125µm.	1	1	10
MT-RJ to MT-RJ – OM1 Multimode Duplex Patch Cords – 1.8mm Jacketed Cable				
F6Z12-12M1	Female MT-RJ to female MT-RJ multimode duplex patch cord, 1.8mm jacketed cable (one female MT-RJ connector on each end) – 62.5/125µm.	1	1	10
SC to LC – OM1 Multimode Duplex Patch Cords – 1.6mm Jacketed Cable				
F6E3-10M1Y	SC to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex LC connector on the other end) – 62.5/125µm.	1	1	10
ST to SC – OM1 Multimode Duplex Patch Cords – 3mm Jacketed Cable				
F6D2-3M1Y	ST to SC multimode duplex patch cord, 3mm jacketed cable (two ST connectors on one end and one duplex SC connector on the other end) – 62.5/125µm.	1	1	10
FJ® Plug to LC – OM1 Multimode Duplex Patch Cords – 1.6mm Jacketed Cable				
F6E6P-10M1Y	FJ® Plug to LC multimode duplex patch cord, 1.6mm jacketed cable (one FJ® Plug on one end and one duplex LC connector on the other end) – 62.5/125µm.	1	1	10
FJ® Plug to SC – OM1 Multimode Duplex Patch Cords – 3mm Jacketed Cable				
F6D6P-3M1Y	FJ® Plug to SC multimode duplex patch cord, 3mm jacketed cable (one FJ® Plug on one end and one duplex SC connector on the other end) – 62.5/125µm.	1	1	10
FJ® Plug to ST – OM1 Multimode Duplex Patch Cords – 3mm Jacketed Cable				
F6D6P-2M1Y	FJ® Plug to ST multimode duplex patch cord, 3mm jacketed cable (one FJ® Plug on one end and two ST connectors on the other end) – 62.5/125µm.	1	1	10
SC to MT-RJ – OM1 Multimode Duplex Patch Cords – 1.8mm Jacketed Cable				
F6Z3-12M1	SC to female MT-RJ multimode duplex patch cord, 1.8mm jacketed cable (one duplex SC connector on one end and one female MT-RJ connector on the other end) – 62.5/125µm.	1	1	10
ST to MT-RJ – OM1 Multimode Duplex Patch Cords – 1.8mm Jacketed Cable				
F6Z2-12M1	ST to female MT-RJ multimode duplex patch cord, 1.8mm jacketed cable (two ST connectors on one end and one female MT-RJ connector on the other end) – 62.5/125µm.	1	1	10
FJ® Plug to MT-RJ – OM1 Multimode Duplex Patch Cords – 1.8mm Jacketed Cable				
F6Z6P-12M1	FJ® Plug to female MT-RJ multimode duplex patch cord, 1.8mm jacketed cable (one FJ® Plug on one end and one female MT-RJ connector on the other end) – 62.5/125µm.	1	1	10

‡To order standard OM2 50/125µm performance (orange cable) patch cords, replace the 6 in the part number (F6D3-3M1) with a 5 (F5D3-3M1).

^Additional lengths and availability: Patch cords are available in 1 – 10 meter lengths in 1 meter increments, and 15, 20, 25 and 30 meter lengths. Pigtails are available in 1, 2, and 3 meter lengths. To order lengths other than 1 meter, replace the 1 after the M (F6D3-3M1Y) with the desired length (F6D3-3M2Y for 2 meter length). The above lengths are stock items. For other lengths or male MT-RJs, contact Customer Service for actual lead times.

Cable Self-Laminating Labels for *OPTI-CORE*® Multimode 62.5/125µm (OM1) or 50/125µm (OM2) Fiber Optic Patch Cords and Pigtails



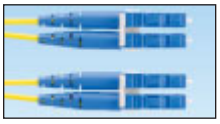
Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
All F6S, F6E, F5S and F5E parts	**S100X160YAJ and NWSLC-3Y‡**	**S100X150VATY and NWSLC-3Y‡**	**S100X160VAC and NWSLC-3Y‡**	**T100X000CBC-BK and NWSLC-3Y**
All F6D, F6Z, F5D and F5Z parts	**S100X220YAJ and NWSLC-7Y‡**	**S100X225VATY and NWSLC-7Y‡**	**S100X220VAC and NWSLC-7Y‡**	**T100X000CBC-BK and NWSLC-7Y**

For complete labeling solutions and product information, reference charts on pages O.1 –O.18.
‡For complete information on fiber optic cable identification solutions, reference page C.92.

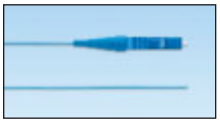
Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

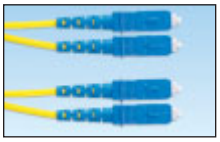
OPTI-CORE® Singlemode 9/125µm (OS1/OS2) Fiber Optic Patch Cords and Pigtails

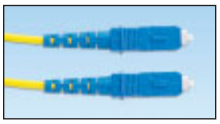
- Available in riser (OFNR) or plenum (OFNP) flame ratings; part numbers listed are for OFNR (F9E10-10M1Y)
- For OFNP, place a P after the X in the part number and drop the Y (F9PE10-10M1)
- Pass all TIA/EIA-568-B.3 performance requirements
- LC and SC connector housing and boot colors follow TIA/EIA-568-C.3 suggested color identification scheme
- 100% factory inspected end face geometry in compliance with Telcordia GR-326-CORE, Issue 3
- Typical insertion loss per connection: 0.25dB
- UPC polished (55dB minimum return loss)
- Factory terminated and 100% tested for insertion loss and return loss
- Insertion loss and return loss data recorded for every singlemode patch cord
- Lifetime traceability of test data to a Q.C. number on each patch cord
- Highest quality flame retardant fiber optic cable with tight-buffered coating on each optical fiber

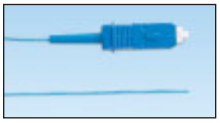

F9E10-10M*Y

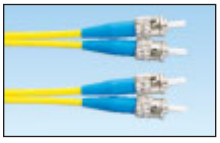

F9F10-10M*Y

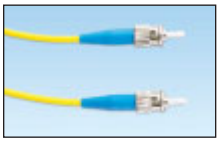

F9B10-NM*Y


F9D3-3M*Y


F9S3-3M*Y

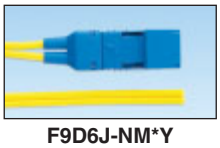

F9B3-NM*Y


F9D2-2M*Y


F9S2-2M*Y


F9B2-NM*Y


F9D6P-6PM*Y

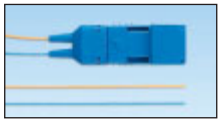

F9D6J-NM*Y

Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
LC to LC – OS1/OS2 Singlemode Duplex Patch Cords – 1.6mm Jacketed Cable				
F9E10-10M1Y	LC to LC singlemode duplex patch cord, 1.6mm jacketed cable (one duplex LC connector on each end) – 9/125µm.	1	1	10
LC to LC – OS1/OS2 Singlemode Simplex Patch Cords – 1.6mm Jacketed Cable				
F9F10-10M1Y	LC to LC singlemode simplex patch cord, 1.6mm jacketed cable (one LC connector on each end) – 9/125µm.	1	1	10
LC to Pigtail – OS1/OS2 Singlemode Simplex Pigtails – 900µm Buffered Fiber				
F9B10-NM1Y	LC to pigtail singlemode simplex pigtail, 900µm buffered fiber (one LC connector on one end and open on the other end) – 9/125µm.	1	1	10
SC to SC – OS1/OS2 Singlemode Duplex Patch Cords – 3mm Jacketed Cable				
F9D3-3M1Y	SC to SC singlemode duplex patch cord, 3mm jacketed cable (two SC connectors on each end) – 9/125µm.	1	1	10
SC to SC – OS1/OS2 Singlemode Simplex Patch Cords – 3mm Jacketed Cable				
F9S3-3M1Y	SC to SC singlemode simplex patch cord, 3mm jacketed cable (one SC connector on each end) – 9/125µm.	1	1	10
SC to Pigtail – OS1/OS2 Singlemode Simplex Pigtails – 900µm Buffered Fiber				
F9B3-NM1Y	SC to pigtail singlemode simplex pigtail, 900µm buffered fiber (one SC connector on one end and open on the other end) – 9/125µm.	1	1	10
ST to ST – OS1/OS2 Singlemode Duplex Patch Cords – 3mm Jacketed Cable				
F9D2-2M1Y	ST to ST singlemode duplex patch cord, 3mm jacketed cable (two ST connectors on each end) – 9/125µm.	1	1	10
ST to ST – OS1/OS2 Singlemode Simplex Patch Cords – 3mm Jacketed Cable				
F9S2-2M1Y	ST to ST singlemode simplex patch cord, 3mm jacketed cable (one ST connector on each end) – 9/125µm.	1	1	10
ST to Pigtail – OS1/OS2 Singlemode Simplex Pigtails – 900µm Buffered Fiber				
F9B2-NM1Y	ST to pigtail singlemode simplex pigtail, 900µm buffered fiber (one ST connector on one end and open on the other end) – 9/125µm.	1	1	10
FJ® Plug to FJ® Plug – OS1/OS2 Singlemode Duplex Patch Cords – 3mm Jacketed Cable				
F9D6P-6PM1Y	FJ® Plug to FJ® Plug singlemode duplex patch cord, 3mm jacketed cable (one FJ® Plug on each end) – 9/125µm.	1	1	10
FJ® Jack Module to Pigtail – OS1/OS2 Singlemode Duplex Pigtails – 3mm Jacketed Cable				
F9D6J-NM1Y	FJ® Jack Module to pigtail singlemode duplex pigtail, 3mm jacketed cable (one FJ® Jack Module on one end and open on the other end) – 9/125µm.	1	1	10

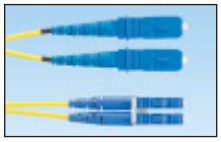
^Additional lengths and availability: Patch cords are available in 1 – 10 meter lengths in 1 meter increments, and 15, 20, 25 and 30 meter lengths. Pigtails are available in 1, 2, and 3 meter lengths. To order lengths other than 1 meter, replace the 1 after the M (F9D3-3M1Y) with the desired length (F9D3-3M2Y for 2 meter length). The above lengths are stock items. For other lengths, contact Customer Service for actual lead time.

Table continues on page C.74

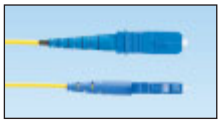
OPTI-CORE® Singlemode 9/125µm (OS1/OS2) Fiber Optic Patch Cords and Pigtails (continued)



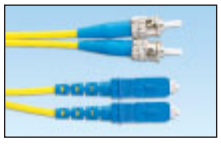
F9B6J-NM*Y



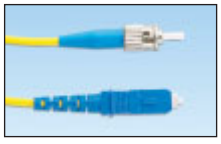
F9E3-10M*Y



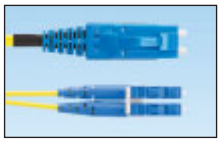
F9F3-10M*Y



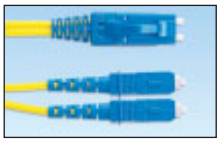
F9D2-3M*Y



F9S2-3M*Y



F9E6P-10M*Y



F9D6P-3M*Y

Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
FJ® Jack Module to Pigtail – OS1/OS2 Singlemode Duplex Pigtails – 900µm Buffered Fiber				
F9B6J-NM1Y	FJ® Jack Module to pigtail singlemode duplex pigtail, 900µm buffered fiber (one FJ® Jack Module on one end and open on the other end) – 9/125µm.	1	1	10
SC to LC – OS1/OS2 Singlemode Duplex Patch Cords – 1.6mm Jacketed Cable				
F9E3-10M1Y	SC to LC singlemode duplex patch cord, 1.6mm jacketed cable (two SC connectors on one end and one duplex LC connector on the other end) – 9/125µm.	1	1	10
SC to LC – OS1/OS2 Singlemode Simplex Patch Cords – 1.6mm Jacketed Cable				
F9F3-10M1Y	SC to LC singlemode simplex patch cord, 1.6mm jacketed cable (one SC connector on one end and one LC connector on the other end) – 9/125µm.	1	1	10
ST to SC – OS1/OS2 Singlemode Duplex Patch Cords – 3mm Jacketed Cable				
F9D2-3M1Y	ST to SC singlemode duplex patch cord, 3mm jacketed cable (two ST connectors on one end and two SC connectors on the other end) – 9/125µm.	1	1	10
ST to SC – OS1/OS2 Singlemode Simplex Patch Cord – 3mm Jacketed Cable				
F9S2-3M1Y	ST to SC singlemode simplex patch cord, 3mm jacketed cable (one ST connector on one end and one SC connector on the other end) – 9/125µm.	1	1	10
FJ® Plug to LC – OS1/OS2 Singlemode Duplex Patch Cords – 1.6mm Jacketed Cable				
F9E6P-10M1Y	FJ® Plug to LC singlemode duplex patch cord, 1.6mm jacketed cable (one FJ® Plug on one end and one duplex LC connector on the other end) – 9/125µm.	1	1	10
FJ® Plug to SC – OS1/OS2 Singlemode Duplex Patch Cords – 3mm Jacketed Cable				
F9D6P-3M1Y	FJ® Plug to SC singlemode duplex patch cord, 3mm jacketed cable (one FJ® Plug on one end and two SC connectors on the other end) – 9/125µm.	1	1	10

^Additional lengths and availability: Patch cords are available in 1 – 10 meter lengths in 1 meter increments, and 15, 20, 25 and 30 meter lengths. Pigtails are available in 1, 2, and 3 meter lengths. To order lengths other than 1 meter, replace the 1 after the M (F9D3-3M1Y) with the desired length (F9D3-3M2Y for 2 meter length). The above lengths are stock items. For other lengths, contact Customer Service for actual lead time.

Cable Self-Laminating Labels for *OPTI-CORE*® Singlemode 9/125µm (OS1/OS2) Fiber Optic Patch Cords and Pigtails



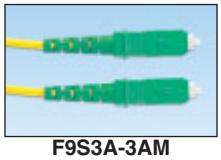
Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
All F9F parts	**S100X160YAJ and NWSLC-2Y‡**	**S100X150VATY and NWSLC-2Y‡**	**S100X160VAC and NWSLC-2Y‡**	**T100X000CBC-BK and NWSLC-2Y**
All F9S and F9E parts	**S100X160YAJ and NWSLC-3Y‡**	**S100X150VATY and NWSLC-3Y‡**	**S100X160VAC and NWSLC-3Y‡**	**T100X000CBC-BK and NWSLC-3Y**
All F9D parts	**S100X220YAJ and NWSLC-7Y‡**	**S100X225VATY and NWSLC-7Y‡**	**S100X220VAC and NWSLC-7Y‡**	**T100X000CBC-BK and NWSLC-7Y**

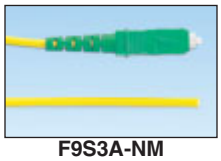
For complete labeling solutions and product information, reference charts on pages O.1 – O.18
‡For complete information on fiber optic cable identification solutions, reference page C.92.

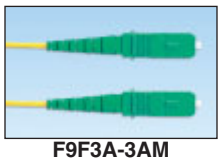
Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

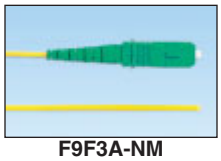
OPTI-CORE® APC 9/125µm (OS1/OS2) Fiber Optic Patch Cords and Pigtails

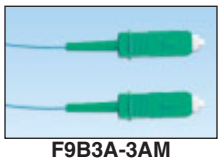
- Pass all TIA/EIA-568-B.3 performance requirements
- SC connector housing and boot colors follow TIA/EIA-568-C.3 suggested color identification scheme
- 100% factory inspected end face geometry in compliance with Telcordia GR-326-CORE, Issue 3
- Typical insertion loss per connection: 0.15dB
- APC polished (65dB minimum return loss)
- Factory terminated and 100% tested for insertion loss and return loss
- Insertion loss and return loss data recorded for every APC patch cord
- Lifetime traceability of test data to a Q.C. number on each patch cord
- Highest quality flame retardant fiber optic cable with tight-buffered coating on each optical fiber

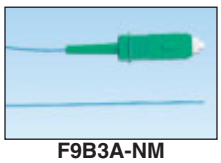

F9S3A-3AM


F9S3A-NM


F9F3A-3AM


F9F3A-NM


F9B3A-3AM


F9B3A-NM

Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
SC APC to SC APC – APC OS1/OS2 Simplex Patch Cords – 3mm Jacketed Cable				
F9S3A-3AM1	SC APC to SC APC singlemode simplex patch cord, 3mm jacketed cable (one SC APC connector on each end) – 9/125µm.	1	1	10
SC APC to Pigtail – APC OS1/OS2 Simplex Pigtails – 3mm Jacketed Cable				
F9S3A-NM1	SC APC to pigtail singlemode simplex pigtail, 3mm jacketed cable (one SC APC connector on one end and open on the other end) – 9/125µm.	1	1	10
SC APC to SC APC – APC OS1/OS2 Simplex Patch Cords – 1.6mm Jacketed Cable				
F9F3A-3AM1	SC APC to SC APC singlemode simplex patch cord, 1.6mm jacketed cable (one SC APC connector on each end) – 9/125µm.	1	1	10
SC APC to Pigtail – APC OS1/OS2 Simplex Pigtails – 1.6mm Jacketed Cable				
F9F3A-NM1	SC APC to pigtail singlemode simplex pigtail, 1.6mm jacketed cable (one SC APC connector on one end and open on the other end) – 9/125µm.	1	1	10
SC APC to SC APC – APC OS1/OS2 Simplex Patch Cords – 900µm Buffered Fiber				
F9B3A-3AM1	SC APC to SC APC singlemode simplex patch cord, 900µm buffered fiber (one SC APC connector on each end) – 9/125µm.	1	1	10
SC APC to Pigtail – APC OS1/OS2 Simplex Pigtails – 900µm Buffered Fiber				
F9B3A-NM1	SC APC to pigtail singlemode simplex pigtail, 900µm buffered fiber (one SC APC connector on one end and open on the other end) – 9/125µm.	1	1	10

^Additional lengths and availability: Patch cords are available in 1, 2, 3, 5 and 10 meter lengths. To order lengths other than 1 meter, replace the 1 at the end of the part number (F9S3A-3AM1) with the desired length (F9S3A-3AM2 for 2 meter length). The above lengths are stock items. For other lengths, contact Customer Service for actual lead times.

Cable Self-Laminating Labels for *OPTI-CORE*® APC 9/125µm (OS1/OS2) Fiber Optic Patch Cords and Pigtails



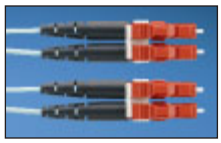
Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER***™ **LS8E Hand-Held Printer Label**	***COUGAR***™ **LS9 Hand-Held Printer Label**
All F9F parts	**S100X160YAJ and NWSLC-2Y‡**	**S100X150VATY and NWSLC-2Y‡**	**S100X160VAC and NWSLC-2Y‡**	**T100X000CBC-BK and NWSLC-2Y**
All F9S parts	**S100X160YAJ and NWSLC-3Y‡**	**S100X150VATY and NWSLC-3Y‡**	**S100X160VAC and NWSLC-3Y‡**	**T100X000CBC-BK and NWSLC-3Y**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For complete information on fiber optic cable identification solutions, reference page C.92.

NEW!

Keyed *OPTI-CORE® 10GIG™* 50/125µm (OM3) Fiber Optic Patch Cords and Pigtails

- Patch cords are tested to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters with an 850nm source per IEEE 802.3ae 10 GbE standard
- Pass all TIA/EIA-568-B.3 performance requirements
- Insertion loss per connection: 0.10dB typical; 0.30dB maximum
- Include color-specific keys with positive and negative keying features to visually and mechanically distinguish connections to prevent unauthorized mating with unlike keyed or non-keyed adapters
- Part of a complete keyed LC system that includes *OPTI-CORE®* Patch Cords and Pigtails, *OPTICAM®* Pre-Polished Cam Connectors, *OPTICOM®* Fiber Adapter Panels (FAPs) and *MINI-COM®* Adapter Modules
- Backward compatible for use with all 50/125µm system requirements
- Factory terminated and 100% tested for insertion loss
- Insertion loss data recorded for every multimode patch cord
- Lifetime traceability of test data to a Q.C. number on each patch cord
- Highest quality flame retardant fiber optic cable with tight-buffered coating on each optical fiber



FXE10B-10BM



FXB10C-NM

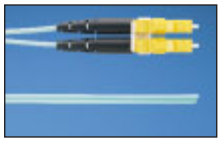
Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
Keyed LC to Keyed LC – *10GIG™* OM3 Multimode Duplex Patch Cords – 1.6mm Jacketed Cable				
FXE10A-10AM1	LC (keyed A – black) to LC (keyed A – black) multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – *10GIG™* 50/125µm.	1	1	10
FXE10B-10BM1	LC (keyed B – red) to LC (keyed B – red) multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – *10GIG™* 50/125µm.	1	1	10
FXE10C-10CM1	LC (keyed C – green) to LC (keyed C – green) multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – *10GIG™* 50/125µm.	1	1	10
FXE10D-10DM1	LC (keyed D – yellow) to LC (keyed D – yellow) multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed D – yellow LC connector on each end) – *10GIG™* 50/125µm.	1	1	10
FXE10E-10EM1	LC (keyed E – orange) to LC (keyed E – orange) multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – *10GIG™* 50/125µm.	1	1	10
FXE10F-10FM1	LC (keyed F – dark blue) to LC (keyed F – dark blue) multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – *10GIG™* 50/125µm.	1	1	10
Keyed LC to Pigtail – *10GIG™* OM3 Multimode Simplex Pigtail – 900µm Buffered Fiber				
FXB10A-NM1	LC (keyed A – black) to pigtail multimode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10
FXB10B-NM1	LC (keyed B – red) to pigtail multimode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10
FXB10C-NM1	LC (keyed C – green) to pigtail multimode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10
FXB10D-NM1	LC (keyed D – yellow) to pigtail multimode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10
FXB10E-NM1	LC (keyed E – orange) to pigtail multimode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10
FXB10F-NM1	LC (keyed F – dark blue) to pigtail multimode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10

^Additional lengths and availability: Keyed LC patch cords and pigtails are available in 1m – 10m lengths in 1m increments, and 15m, 20m, and 30m lengths. Keyed FJ® Plug Patch Cords and Pigtails are available in 1m, 2m, 3m, 5m and 10m lengths. To order lengths other than 1m, replace the 1 after the M (FXE10A-10AM1) with the desired length (FXE10A-10AM2 for 2 meter length). The above lengths are stock items. For other lengths, contact Customer Service for actual lead times.

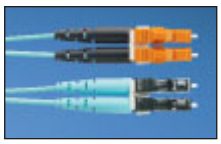
Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Keyed *OPTI-CORE® 10GIG™* 50/125µm (OM3) Fiber Optic Patch Cords and Pigtails (continued)



FXPE10D-NM



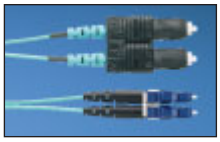
FXE10E-10M

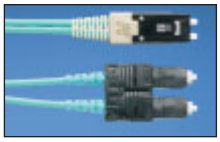
Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
Keyed LC to Pigtail – *10GIG™* OM3 Multimode Duplex Plenum Pigtail – 1.6mm Jacketed Cable				
FXPE10A-NM1	LC (keyed A – black) to pigtail multimode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10
FXPE10B-NM1	LC (keyed B – red) to pigtail multimode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10
FXPE10C-NM1	LC (keyed C – green) to pigtail multimode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10
FXPE10D-NM1	LC (keyed D – yellow) to pigtail multimode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10
FXPE10E-NM1	LC (keyed E – orange) to pigtail multimode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10
FXPE10F-NM1	LC (keyed F – dark blue) to pigtail multimode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – *10GIG™* 50/125µm.	1	1	10
Keyed LC to LC – *10GIG™* OM3 Multimode Duplex Patch Cords – 1.6mm Jacketed Cable				
FXE10A-10M1	LC (keyed A – black) to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FXE10B-10M1	LC (keyed B – red) to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FXE10C-10M1	LC (keyed C – green) to LC multimode duplex patch cord, 10 GbE, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FXE10D-10M1	LC (keyed D – yellow) to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FXE10E-10M1	LC (keyed E – orange) to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FXE10F-10M1	LC (keyed F – dark blue) to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – *10GIG™* 50/125µm.	1	1	10

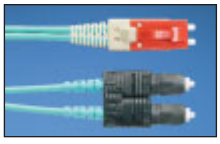
^Additional lengths and availability: Keyed LC patch cords and pigtails are available in 1m – 10m lengths in 1m increments, and 15m, 20m, and 30m lengths. Keyed FJ® Plug Patch Cords and Pigtails are available in 1m, 2m, 3m, 5m and 10m lengths. To order lengths other than 1m, replace the 1 after the M (FXE10A-10AM1) with the desired length (FXE10A-10AM2 for 2 meter length). The above lengths are stock items. For other lengths, contact Customer Service for actual lead times.

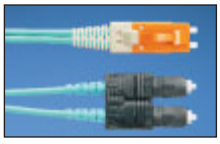
Table continues on page C.78

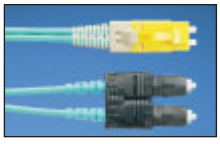
Keyed *OPTI-CORE® 10GIG™* 50/125µm (OM3) Fiber Optic Patch Cords and Pigtails (continued)


FXE3-10FM


FXD6PW-3M*Y


FXD6PX-3M*Y


FXD6PY-3M*Y


FXD6PZ-3M*Y

Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
SC to Keyed LC – *10GIG™* OM3 Multimode Duplex Patch Cords – 1.6mm Jacketed Cable				
FXE3-10AM1	SC to LC (keyed A – black) multimode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FXE3-10BM1	SC to LC (keyed B – red) multimode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FXE3-10CM1	SC to LC (keyed C – green) multimode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FXE3-10DM1	SC to LC (keyed D – yellow) multimode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FXE3-10EM1	SC to LC (keyed E – orange) multimode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FXE3-10FM1	SC to LC (keyed F – dark blue) multimode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
Keyed FJ® Plug to SC – *10GIG™* OM3 Multimode Duplex Patch Cords – 3mm Jacketed Cable				
FXD6PW-3M1Y	FJ® Plug (keyed W – black) to SC multimode duplex patch cord, 3mm jacketed cable (one keyed FJ® Plug on one end and one duplex SC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FXD6PX-3M1Y	FJ® Plug (keyed X – red) to SC multimode duplex patch cord, 3mm jacketed cable (one keyed FJ® Plug on one end and one duplex SC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FXD6PY-3M1Y	FJ® Plug (keyed Y – orange) to SC multimode duplex patch cord, 3mm jacketed cable (one keyed FJ® Plug on one end and one duplex SC connector on the other end) – *10GIG™* 50/125µm.	1	1	10
FXD6PZ-3M1Y	FJ® Plug (keyed Z – yellow) to SC multimode duplex patch cord, 3mm jacketed cable (one keyed FJ® Plug on one end and one duplex SC connector on the other end) – *10GIG™* 50/125µm.	1	1	10

^Additional lengths and availability: Keyed LC patch cords and pigtails are available in 1m – 10m lengths in 1m increments, and 15m, 20m, and 30m lengths. Keyed FJ® Plug Patch Cords and Pigtails are available in 1m, 2m, 3m, 5m and 10m lengths. To order lengths other than 1m, replace the 1 after the M (FXE10A-10AM1) with the desired length (FXE10A-10AM2 for 2 meter length). The above lengths are stock items. For other lengths, contact Customer Service for actual lead times.

Cable Self-Laminating Labels for Keyed *OPTI-CORE® 10GIG™* 50/125µm (OM3) Fiber Optic Patch Cords and Pigtails



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER™* LS8E Hand-Held Printer Label**	***COUGAR™* LS9 Hand-Held Printer Label**
All FXE parts	**S100X160YAJ and NWSLC-3Y‡**	**S100X150VATY and NWSLC-3Y‡**	**S100X160VAC and NWSLC-3Y‡**	**T100X000CBC-BK and NWSLC-3Y**
All FXD parts	**S100X220YAJ and NWSLC-7Y‡**	**S100X225VATY and NWSLC-7Y‡**	**S100X220VAC and NWSLC-7Y‡**	**T100X000CBC-BK and NWSLC-7Y**

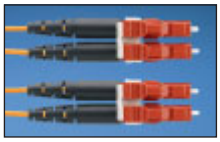
For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For complete information on fiber optic cable identification solutions, reference page C.92.

Order number of pieces required, in multiples of Standard Package Quantity. Prime items appear in **BOLD**.

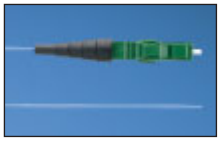
NEW!

Keyed *OPTI-CORE*® Multimode 62.5/125µm (OM1) or 50/125µm (OM2) Fiber Optic Patch Cords and Pigtails‡

- Pass all TIA/EIA-568-B.3 performance requirements
- Insertion loss per connection: 0.10dB typical; 0.30dB maximum
- Include color-specific keys with positive and negative keying features to visually and mechanically distinguish connections to prevent unauthorized mating with unlike keyed or non-keyed adapters
- Part of a complete keyed LC system that includes *OPTI-CORE*® Patch Cords and Pigtails, *OPTICAM*® Pre-Polished Cam Connectors, *OPTICOM*® Fiber Adapter Panels (FAPs) and *MINI-COM*® Adapter Modules
- Factory terminated and 100% tested for insertion loss
- Insertion loss data recorded for every multimode patch cord
- Lifetime traceability of test data to a Q.C. number on each patch cord
- Highest quality flame retardant fiber optic cable with tight-buffered coating on each optical fiber



F6E10B-10BM



F6B10C-NM

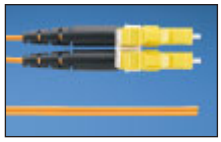
Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
Keyed LC to Keyed LC – OM1 Multimode Duplex Patch Cords – 1.6mm Jacketed Cable				
F6E10A-10AM1	LC (keyed A – black) to LC (keyed A – black) multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – 62.5/125µm.	1	1	10
F6E10B-10BM1	LC (keyed B – red) to LC (keyed B – red) multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – 62.5/125µm.	1	1	10
F6E10C-10CM1	LC (keyed C – green) to LC (keyed C – green) multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – 62.5/125µm.	1	1	10
F6E10D-10DM1	LC (keyed D – yellow) to LC (keyed D – yellow) multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – 62.5/125µm.	1	1	10
F6E10E-10EM1	LC (keyed E – orange) to LC (keyed E – orange) multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – 62.5/125µm.	1	1	10
F6E10F-10FM1	LC (keyed F – dark blue) to LC (keyed F – dark blue) multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – 62.5/125µm.	1	1	10
Keyed LC to Pigtail – OM1 Multimode Simplex Pigtail – 900µm Buffered Fiber				
F6B10A-NM1	LC (keyed A – black) to pigtail multimode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – 62.5/125µm.	1	1	10
F6B10B-NM1	LC (keyed B – red) to pigtail multimode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – 62.5/125µm.	1	1	10
F6B10C-NM1	LC (keyed C – green) to pigtail multimode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – 62.5/125µm.	1	1	10
F6B10D-NM1	LC (keyed D – yellow) to pigtail multimode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – 62.5/125µm.	1	1	10
F6B10E-NM1	LC (keyed E – orange) to pigtail multimode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – 62.5/125µm.	1	1	10
F6B10F-NM1	LC (keyed F – dark blue) to pigtail multimode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – 62.5/125µm.	1	1	10

‡To order standard OM2 50/125µm performance (orange cable) patch cords, replace the 6 in the part number (F6E10A-10AM1) with a 5 (F5E10A-10AM1).

^Additional lengths and availability: Keyed LC patch cords and pigtails are available in 1m – 10m lengths in 1m increments, and 15m, 20m, and 30m lengths. Keyed FJ® Plug Patch Cords and Pigtails are available in 1m, 2m, 3m, 5m and 10m lengths. To order lengths other than 1m, replace the 1 after the M (F6E10A-10AM1) with the desired length (F6E10A-10AM2 for 2 meter length). The above lengths are stock items. For other lengths, contact Customer Service for actual lead times.

Table continues on page C.80

Keyed *OPTI-CORE*® Multimode 62.5/125µm (OM1) or 50/125µm (OM2) Fiber Optic Patch Cords and Pigtails‡ (continued)



F6PE10D-NM



F6E10E-10M

Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
Keyed LC to Pigtail – OM1 Multimode Duplex Plenum Pigtail – 1.6mm Jacketed Cable				
F6PE10A-NM1	LC (keyed A – black) to pigtail multimode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – 62.5/125µm.	1	1	10
F6PE10B-NM1	LC (keyed B – red) to pigtail multimode duplex plenum pigtail,1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – 62.5/125µm.	1	1	10
F6PE10C-NM1	LC (keyed C – green) to pigtail multimode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – 62.5/125µm.	1	1	10
F6PE10D-NM1	LC (keyed D – yellow) to pigtail multimode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – 62.5/125µm.	1	1	10
F6PE10E-NM1	LC (keyed E – orange) to pigtail multimode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – 62.5/125µm.	1	1	10
F6PE10F-NM1	LC (keyed F – dark blue) to pigtail multimode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – 62.5/125µm.	1	1	10
Keyed LC to LC – OM1 Multimode Duplex Patch Cords – 1.6mm Jacketed Cable				
F6E10A-10M1	LC (keyed A – black) to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – 62.5/125µm.	1	1	10
F6E10B-10M1	LC (keyed B – red) to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – 62.5/125µm.	1	1	10
F6E10C-10M1	LC (keyed C – green) to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – 62.5/125µm.	1	1	10
F6E10D-10M1	LC (keyed D – yellow) to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – 62.5/125µm.	1	1	10
F6E10E-10M1	LC (keyed E – orange) to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – 62.5/125µm.	1	1	10
F6E10F-10M1	LC (keyed F – dark blue) to LC multimode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – 62.5/125µm.	1	1	10

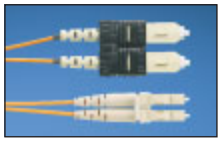
‡To order standard OM2 50/125µm performance (orange cable) patch cords, replace the 6 in the part number (F6E10A-10AM1) with a 5 (F5E10A-10AM1).

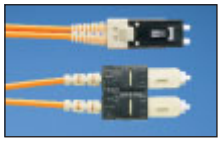
^Additional lengths and availability: Keyed LC patch cords and pigtails are available in 1m – 10m lengths in 1m increments, and 15m, 20m, and 30m lengths. Keyed FJ® Plug Patch Cords and Pigtails are available in 1m, 2m, 3m, 5m and 10m lengths. To order lengths other than 1m, replace the 1 after the M (F6E10A-10AM1) with the desired length (F6E10A-10AM2 for 2 meter length). The above lengths are stock items. For other lengths, contact Customer Service for actual lead times.

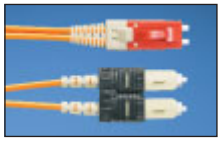
Order number of pieces required, in multiples of Standard Package Quantity.

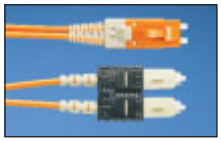
Prime items appear in **BOLD**.

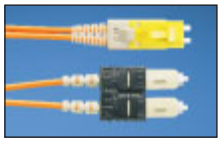
Keyed *OPTI-CORE*® Multimode 62.5/125µm (OM1) or 50/125µm (OM2) Fiber Optic Patch Cords and Pigtails‡ (continued)


F6E3-10FM


F6D6PW-3M*Y


F6D6PX-3M*Y


F6D6PY-3M*Y


F6D6PZ-3M*Y

Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
SC to Keyed LC – OM1 Multimode Duplex Patch Cords – 1.6mm Jacketed Cable				
F6E3-10AM1	SC to LC (keyed A – black) multimode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – 62.5/125µm.	1	1	10
F6E3-10BM1	SC to LC (keyed B – red) multimode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – 62.5/125µm.	1	1	10
F6E3-10CM1	SC to LC (keyed C – green) multimode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – 62.5/125µm.	1	1	10
F6E3-10DM1	SC to LC (keyed D – yellow) multimode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – 62.5/125µm.	1	1	10
F6E3-10EM1	SC to LC (keyed E – orange) multimode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – 62.5/125µm.	1	1	10
F6E3-10FM1	SC to LC (keyed F – dark blue) multimode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – 62.5/125µm.	1	1	10
Keyed FJ® Plug to SC – OM1 Multimode Duplex Patch Cords – 3mm Jacketed Cable				
F6D6PW-3M1Y	FJ® Plug (keyed W – black) to SC multimode duplex patch cord, 3mm jacketed cable (one keyed FJ® Plug on one end and one duplex SC connector on the other end) – 62.5/125µm.	1	1	10
F6D6PX-3M1Y	FJ® Plug (keyed X – red) to SC multimode duplex patch cord, 3mm jacketed cable (one keyed FJ® Plug on one end and one duplex SC connector on the other end) – 62.5/125µm.	1	1	10
F6D6PY-3M1Y	FJ® Plug (keyed Y – orange) to SC multimode duplex patch cord, 3mm jacketed cable (one keyed FJ® Plug on one end and one duplex SC connector on the other end) – 62.5/125µm.	1	1	10
F6D6PZ-3M1Y	FJ® Plug (keyed Z – yellow) to SC multimode duplex patch cord, 3mm jacketed cable (one keyed FJ® Plug on one end and one duplex SC connector on the other end) – 62.5/125µm.	1	1	10

‡To order standard OM2 50/125µm performance (orange cable) patch cords, replace the 6 in the part number (F6E10A-10AM1) with a 5 (F5E10A-10AM1).

^Additional lengths and availability: Keyed LC patch cords and pigtails are available in 1m – 10m lengths in 1m increments, and 15m, 20m, and 30m lengths. Keyed FJ® Plug Patch Cords and Pigtails are available in 1m, 2m, 3m, 5m and 10m lengths. To order lengths other than 1m, replace the 1 after the M (F6E10A-10AM1) with the desired length (F6E10A-10AM2 for 2 meter length). The above lengths are stock items. For other lengths, contact Customer Service for actual lead times.

Cable Self-Laminating Labels for Keyed *OPTI-CORE*® Multimode 62.5/125µm (OM1) or 50/125µm (OM2) Fiber Optic Patch Cords and Pigtails



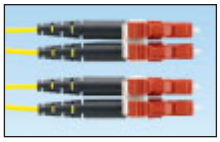
Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
All F6E and F5E parts	**S100X160YAJ and NWSLC-3Y‡**	**S100X150VATY and NWSLC-3Y‡**	**S100X160VAC and NWSLC-3Y‡**	**T100X000CBC-BK and NWSLC-3Y**
All F6D and F5D parts	**S100X220YAJ and NWSLC-7Y‡**	**S100X225VATY and NWSLC-7Y‡**	**S100X220VAC and NWSLC-7Y‡**	**T100X000CBC-BK and NWSLC-7Y**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For complete information on fiber optic cable identification solutions, reference page C.92.

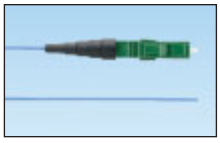
NEW!

Keyed *OPTI-CORE*® Singlemode 9/125µm (OS1/OS2) Patch Cords and Pigtails

- Pass all TIA/EIA-568-B.3 performance requirements
- 100% factory inspected end face geometry in compliance with Telcordia GR-326-CORE, Issue 3
- Typical insertion loss per connection: 0.25dB
- UPC polished (55dB minimum return loss)
- Include color-specific keys with positive and negative keying features to visually and mechanically distinguish connections to prevent unauthorized mating with unlike keyed or non-keyed adapters
- Part of a complete keyed LC system that includes *OPTI-CORE*® Patch Cords and Pigtails, *OPTICAM*® Pre-Polished Cam Connectors, *OPTICOM*® Fiber Adapter Panels (FAPs) and *MINI-COM*® Adapter Modules
- Factory terminated and 100% tested for insertion loss and return loss
- Insertion loss and return loss data recorded for every singlemode patch cord
- Lifetime traceability of test data to a Q.C. number on each patch cord
- Highest quality flame retardant fiber optic cable with tight-buffered coating on each optical fiber



F9E10B-10BM



F9B10C-NM

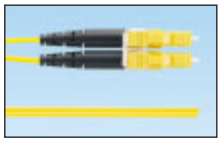
Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
Keyed LC to Keyed LC – OS1/OS2 Singlemode Duplex Patch Cords – 1.6mm Jacketed Cable				
F9E10A-10AM1	LC (keyed A – black) to LC (keyed A – black) singlemode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – 9/125µm.	1	1	10
F9E10B-10BM1	LC (keyed B – red) to LC (keyed B – red) singlemode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – 9/125µm.	1	1	10
F9E10C-10CM1	LC (keyed C – green) to LC (keyed C – green) singlemode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – 9/125µm.	1	1	10
F9E10D-10DM1	LC (keyed D – yellow) to LC (keyed D – yellow) singlemode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – 9/125µm.	1	1	10
F9E10E-10EM1	LC (keyed E – orange) to LC (keyed E – orange) singlemode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – 9/125µm.	1	1	10
F9E10F-10FM1	LC (keyed F – dark blue) to LC (keyed F – dark blue) singlemode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on each end) – 9/125µm.	1	1	10
Keyed LC to Pigtail – OS1/OS2 Singlemode Simplex Pigtail – 900µm Buffered Fiber				
F9B10A-NM1	LC (keyed A – black) to pigtail singlemode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – 9/125µm.	1	1	10
F9B10B-NM1	LC (keyed B – red) to pigtail singlemode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – 9/125µm.	1	1	10
F9B10C-NM1	LC (keyed C – green) to pigtail singlemode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – 9/125µm.	1	1	10
F9B10D-NM1	LC (keyed D – yellow) to pigtail singlemode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – 9/125µm.	1	1	10
F9B10E-NM1	LC (keyed E – orange) to pigtail singlemode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – 9/125µm.	1	1	10
F9B10F-NM1	LC (keyed F – dark blue) to pigtail singlemode simplex pigtail, 900µm buffered fiber (one keyed LC connector on one end and open on the other end) – 9/125µm.	1	1	10
Keyed LC to Pigtail – OS1/OS2 Singlemode Duplex Plenum Pigtail – 1.6mm Jacketed Cable				
F9PE10A-NM1	LC (keyed A – black) to pigtail singlemode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – 9/125µm.	1	1	10
F9PE10B-NM1	LC (keyed B – red) to pigtail singlemode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – 9/125µm.	1	1	10

^Additional lengths and availability: Keyed LC patch cords and pigtails are available in 1m – 10m lengths in 1m increments, and 15m, 20m, and 30m lengths. Keyed FJ® Plug Patch Cords and Pigtails are available in 1m, 2m, 3m, 5m and 10m lengths. To order lengths other than 1m, replace the 1 after the M (F9E10A-10AM1) with the desired length (F9E10A-10AM2 for 2 meter length). The above lengths are stock items. For other lengths, contact Customer Service for actual lead times.

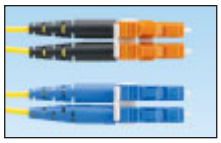
Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

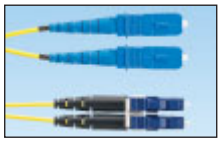
Keyed *OPTI-CORE*® Singlemode 9/125µm (OS1/OS2) Patch Cords and Pigtails (continued)



F9PE10D-NM



F9E10E-10M

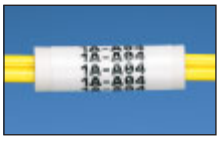


F9E3-10FM

Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
F9PE10C-NM1	LC (keyed C – green) to pigtail singlemode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – 9/125µm.	1	1	10
F9PE10D-NM1	LC (keyed D – yellow) to pigtail singlemode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – 9/125µm.	1	1	10
F9PE10E-NM1	LC (keyed E – orange) to pigtail singlemode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – 9/125µm.	1	1	10
F9PE10F-NM1	LC (keyed F – dark blue) to pigtail singlemode duplex plenum pigtail, 1.6mm jacketed cable (one duplex keyed LC connector on one end and open on the other end) – 9/125µm.	1	1	10
Keyed LC to LC – OS1/OS2 Singlemode Duplex Patch Cords – 1.6mm Jacketed Cable				
F9E10A-10M1	LC (keyed A – black) to LC singlemode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – 9/125µm.	1	1	10
F9E10B-10M1	LC (keyed B – red) to LC singlemode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – 9/125µm.	1	1	10
F9E10C-10M1	LC (keyed C – green) to LC singlemode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – 9/125µm.	1	1	10
F9E10D-10M1	LC (keyed D – yellow) to LC singlemode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – 9/125µm.	1	1	10
F9E10E-10M1	LC (keyed E – orange) to LC singlemode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – 9/125µm.	1	1	10
F9E10F-10M1	LC (keyed F – dark blue) to LC singlemode duplex patch cord, 1.6mm jacketed cable (one duplex keyed LC connector on one end and one duplex LC connector on the other end) – 9/125µm.	1	1	10
SC to Keyed LC – OS1/OS2 Singlemode Duplex Patch Cords – 1.6mm Jacketed Cable				
F9E3-10AM1	SC to LC (keyed A – black) singlemode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – 9/125µm.	1	1	10
F9E3-10BM1	SC to LC (keyed B – red) singlemode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – 9/125µm.	1	1	10
F9E3-10CM1	SC to LC (keyed C – green) singlemode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed C LC connector on the other end) – 9/125µm.	1	1	10
F9E3-10DM1	SC to LC (keyed D – yellow) singlemode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – 9/125µm.	1	1	10
F9E3-10EM1	SC to LC (keyed E – orange) singlemode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – 9/125µm.	1	1	10
F9E3-10FM1	SC to LC (keyed F – dark blue) singlemode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex keyed LC connector on the other end) – 9/125µm.	1	1	10

^Additional lengths and availability: Keyed LC patch cords and pigtails are available in 1m – 10m lengths in 1m increments, and 15m, 20m, and 30m lengths. Keyed FJ® Plug Patch Cords and Pigtails are available in 1m, 2m, 3m, 5m and 10m lengths. To order lengths other than 1m, replace the 1 after the M (F9E10A-10AM1) with the desired length (F9E10A-10AM2 for 2 meter length). The above lengths are stock items. For other lengths, contact Customer Service for actual lead times.

Cable Self-Laminating Labels for Keyed *OPTI-CORE*® Singlemode 9/125µm (OS1/OS2) Patch Cords and Pigtails



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
All F9E parts	**S100X160YAJ and NWSLC-3Y‡**	**S100X150VATY and NWSLC-3Y‡**	**S100X160VAC and NWSLC-3Y‡**	**T100X000CBC-BK and NWSLC-3Y**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18
‡For complete information on fiber optic cable identification solutions, reference page C.92.

NEW!

LC Lock-In Duplex Clip

- Used with *OPTI-CORE*® LC and Keyed LC Patch Cords to prevent unauthorized removal of cable or other networking equipment or critical connection
- Secures connections to reduce network downtime, data security breaches, and hardware replacment due to theft
- Installation/removal tool allows connectors to be locked into or released from adapters in modules, FAPs, cassettes or patch panels for enhanced physical security
- Limits access of an LC or Keyed LC System that includes *OPTI-CORE*® Patch Cords and Pigtails, *OPTICAM*® Pre-Polished Cam Connectors, *OPTICOM*® Fiber Adapter Panels (FAPs) and *MINI-COM*® Adapter Modules



Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
FLCCLIW-X	Package of ten LC duplex lock-in clips and one removal tool.	Off White	10	100

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

OPTI-CORE® Fiber Optic Reference Cable Assembly Kits

NEW!

- Reference and master grade cable assemblies pass all TIA/EIA-568-B.3 performance requirements
- 100% factory-inspected endface geometry in compliance with Telcordia GR-326-CORE, Issue 3
- Insertion loss per connection: 0.10dB maximum (multimode and singlemode)
- Return loss: 40dB minimum, PC polished (multimode); 58dB minimum, UPC polished (singlemode)
- Include 2-meter cable assemblies: standard grade to reference grade reference cable assemblies, and standard grade to reference grade master cable assemblies, zirconia ceramic adapters, and a set of mandrels (multimode kits)
- Master cable assemblies provide in-field qualification of reference cable assemblies for test use
- Available in multimode (*10GIG*™ OM3 and OM1) and singlemode (OS1/OS2) fiber types for link testing and diagnostic troubleshooting flexibility
- *10GIG*™ 50/125µm (gray) or 62.5/125µm (black) mandrels are provided to allow mode conditioning and stripping for testing fiber to applicable standards requirements
- Factory terminated and 100% tested for insertion loss and return loss; data supplied with each reference and master cable assembly
- Provide superior measurement capability to maximize link reliability
- Controlled ferrule endface geometry is documented and supplied, assuring repeatable high performance physical contact of fiber connectors under test
- Hybrid reference cords available for use in testing permanent links with connectors that differ from test set connectors
- Reference quality connectors on both ends of cable assemblies allow both ends to be used to mate to the permanent link for loss measurements



FR2XS2-RSKIT

Part Number	Part Description	Std. Pkg. Qty.
***10GIG*™ OM3 Multimode Reference Cable Assembly Kits**		
FR1XS1-R1KIT	Simplex LC-LC/SC-LC *10GIG*™ 50/125µm multimode reference cable assembly kit, includes: 2 simplex std. grade LC to ref. grade LC reference cables (2m) 2 simplex std. grade SC to ref. grade LC reference cables (2m) 2 simplex std. grade LC to ref. grade LC master cables (2m) 2 LC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1
FR2XSS-RSKIT	Duplex SC-SC *10GIG*™ 50/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade SC reference cables (2m) 1 duplex std. grade SC to ref. grade SC master cable (2m) 2 SC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1
FR2XS2-RSKIT	Duplex ST-SC *10GIG*™ 50/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade SC reference cables (2m) 1 duplex std. grade ST to ref. grade SC master cable (2m) 2 SC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1
FR2XSS-RLKIT	Duplex SC-LC *10GIG*™ 50/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade LC reference cables (2m) 1 duplex std. grade SC to ref. grade LC master cable (2m) 2 LC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1
FR1XS2-R2KIT	Simplex SC-ST/ST-ST *10GIG*™ 50/125µm multimode reference cable assembly kit, includes: 2 simplex std. grade SC to ref. grade ST reference cables (2m) 2 simplex std. grade ST to ref. grade ST reference cables (2m) 2 simplex std. grade ST to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1
FR2XS2-R2KIT	Duplex ST-ST *10GIG*™ 50/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade ST reference cables (2m) 2 duplex std. grade ST to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1

Table continues on page C.86

OPTI-CORE® Fiber Optic Reference Cable Assembly Kits (continued)

Part Number	Part Description	Std. Pkg. Qty.
FR2XS2-RLKIT	Duplex ST-LC *10GIG*™ 50/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade LC reference cables (2m) 2 duplex std. grade ST to ref. grade LC master cables (2m) 2 LC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1
FR2XSS-R2KIT	Duplex SC-ST *10GIG*™ 50/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade ST reference cables (2m) 2 duplex std. grade SC to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1
OM1 Multimode Reference Cable Assembly Kits		
FR16S1-R1KIT	Simplex LC-LC/SC-LC 62.5/125µm multimode reference cable assembly kit, includes: 2 simplex std. grade LC to ref. grade LC reference cables (2m) 2 simplex std. grade SC to ref. grade LC reference cables (2m) 2 simplex std. grade LC to ref. grade LC master cables (2m) 2 LC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1
FR26SS-RSKIT	Duplex SC-SC 62.5/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade SC reference cables (2m) 1 duplex std. grade SC to ref. grade SC master cable (2m) 2 SC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1
FR26S2-RSKIT	Duplex ST-SC 62.5/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade SC reference cables (2m) 1 duplex std. grade ST to ref. grade SC master cable (2m) 2 SC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1
FR26SS-RLKIT	Duplex SC-LC 62.5/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade LC reference cables (2m) 1 duplex std. grade SC to ref. grade LC master cable (2m) 2 LC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1
FR16S2-R2KIT	Simplex SC-ST/ST-ST 62.5/125µm multimode reference cable assembly kit, includes: 2 simplex std. grade SC to ref. grade ST reference cables (2m) 2 simplex std. grade ST to ref. grade ST reference cables (2m) 2 simplex std. grade ST to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1
FR26S2-R2KIT	Duplex ST-ST 62.5/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade ST reference cables (2m) 2 duplex std. grade ST to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1
FR26S2-RLKIT	Duplex ST-LC 62.5/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade LC reference cables (2m) 2 duplex std. grade ST to ref. grade LC master cables (2m) 2 LC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1
FR26SS-R2KIT	Duplex SC-ST 62.5/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade ST reference cables (2m) 2 duplex std. grade SC to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

OPTI-CORE® Fiber Optic Reference Cable Assembly Kits (continued)

Part Number	Part Description	Std. Pkg. Qty.
OS1/OS2 Singlemode Reference Cable Assembly Kits		
FR19S1-R1KIT	Simplex LC-LC/SC-LC 9µm singlemode reference cable assembly kit, includes: 2 simplex std. grade LC to ref. grade LC reference cables (2) 2 simplex std. grade SC to ref. grade LC reference cables (2) 2 simplex std. grade LC to ref. grade LC master cables (2) 2 LC duplex adapters (zirconia ceramic split sleeves)	1
FR29SS-RSKIT	Duplex SC-SC 9µm singlemode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade SC reference cables (2m) 1 duplex std. grade SC to ref. grade SC master cable (2m) 2 SC duplex adapters (zirconia ceramic split sleeves)	1
FR29S2-RSKIT	Duplex ST-SC 9µm singlemode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade SC reference cables (2m) 1 duplex std. grade ST to ref. grade SC master cable (2m) 2 SC duplex adapters (zirconia ceramic split sleeves)	1
FR29SS-RLKIT	Duplex SC-LC 9µm singlemode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade LC reference cables (2m) 1 duplex std. grade SC to ref. grade LC master cable (2m) 2 LC duplex adapters (zirconia ceramic split sleeves)	1
FR19S2-R2KIT	Simplex SC-ST/ST-ST 9µm singlemode reference cable assembly kit, includes: 2 simplex std. grade SC to ref. grade ST reference cables (2m) 2 simplex std. grade ST to ref. grade ST reference cables (2m) 2 simplex std. grade ST to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves)	1
FR29S2-R2KIT	Duplex ST-ST 9µm singlemode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade ST reference cables (2m) 2 duplex std. grade ST to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves)	1
FR29S2-RLKIT	Duplex ST-LC 9µm singlemode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade LC reference cables (2m) 2 duplex std. grade ST to ref. grade LC master cables (2m) 2 LC duplex adapters (zirconia ceramic split sleeves)	1
FR29SS-R2KIT	Duplex SC-ST 9µm singlemode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade ST reference cables (2m) 2 duplex std. grade SC to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves)	1

NEW! *OPTI-CORE*® Fiber Optic Reference Cable Assemblies

- Pass all TIA/EIA-568-B.3 performance requirements
- 100% factory inspected endface geometry in compliance with Telcordia GR-326-CORE, Issue 3
- Insertion loss per connection: 0.10dB maximum (multimode and singlemode)
- Return loss: 40dB minimum, PC polished (multimode); 58dB minimum, UPC polished (singlemode)
- Standard grade to reference grade riser (OFNR) rated cable assemblies are available in 2 meter lengths in multimode (*10GIG*™ OM3 50µm and OM1 62.5µm) and singlemode (OS1/OS2 9µm) fiber types for link testing and diagnostic troubleshooting flexibility
- Factory terminated and 100% tested for insertion loss and return loss; data recorded and supplied with each reference cable assembly
- Provide superior measurement capability to maximize link reliability
- Controlled ferrule endface geometry is documented and supplied, assuring repeatable high performance physical contact of fiber connectors under test
- Hybrid reference cords are available for use in testing permanent links with connectors that differ from test set connectors
- Reference quality connectors on both ends of cable assembly allow both ends to be used to mate to the permanent link for loss measurements
- *OPTI-CORE*® Fiber Optic Reference Cable Assembly Kits are also available for in-field qualification of reference cord for test use



FR2XSS-R2M02

Part Number	Part Description	Length (m)	Std. Pkg. Qty.	Std. Ctn. Qty.
***10GIG*™ OM3 Multimode Duplex Reference Cable Assemblies**				
FR2XSL-RLM02	Duplex standard grade LC to reference grade LC reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR2XSL-RSM02	Duplex standard grade LC to reference grade SC reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR2XSL-R2M02	Duplex standard grade LC to reference grade ST reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR2XSS-RSM02	Duplex standard grade SC to reference grade SC reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR2XSS-RLM02	Duplex standard grade SC to reference grade LC reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR2XSS-R2M02	Duplex standard grade SC to reference grade ST reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR2XS2-R2M02	Duplex standard grade ST to reference grade ST reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR2XS2-RLM02	Duplex standard grade ST to reference grade LC reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR2XS2-RSM02	Duplex standard grade ST to reference grade SC reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

OPTI-CORE® Fiber Optic Reference Cable Assemblies (continued)

Part Number	Part Description	Length (m)	Std. Pkg. Qty.	Std. Ctn. Qty.
10GIG™ **OM3 Multimode Simplex Reference Cable Assemblies**				
FR1XS1-R1M02	Simplex standard grade LC to reference grade LC reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR1XS1-R3M02	Simplex standard grade LC to reference grade SC reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR1XS1-R2M02	Simplex standard grade LC to reference grade ST reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR1XS3-R3M02	Simplex standard grade SC to reference grade SC reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR1XS3-R1M02	Simplex standard grade SC to reference grade LC reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR1XS3-R2M02	Simplex standard grade SC to reference grade ST reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR1XS2-R2M02	Simplex standard grade ST to reference grade ST reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR1XS2-R1M02	Simplex standard grade ST to reference grade LC reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
FR1XS2-R3M02	Simplex standard grade ST to reference grade SC reference cable assembly, riser rated 2mm jacketed cable – *10GIG*™ 50/125µm.	2	1	10
OM1 Multimode Duplex Reference Cable Assemblies				
FR26SL-RLM02	Duplex standard grade LC to reference grade LC multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR26SL-RSM02	Duplex standard grade LC to reference grade SC multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR26SL-R2M02	Duplex standard grade LC to reference grade ST multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR26SS-RSM02	Duplex standard grade SC to reference grade SC multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR26SS-RLM02	Duplex standard grade SC to reference grade LC multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR26SS-R2M02	Duplex standard grade SC to reference grade ST multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR26S2-R2M02	Duplex standard grade ST to reference grade ST multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR26S2-RLM02	Duplex standard grade ST to reference grade LC multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR26S2-RSM02	Duplex standard grade ST to reference grade SC multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10

Table continues on page C.90

OPTI-CORE® Fiber Optic Reference Cable Assemblies (continued)

Part Number	Part Description	Length (m)	Std. Pkg. Qty.	Std. Ctn. Qty.
OM1 Multimode Simplex Reference Cable Assemblies				
FR16S1-R1M02	Simplex standard grade LC to reference grade LC multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR16S1-R3M02	Simplex standard grade LC to reference grade SC multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR16S1-R2M02	Simplex standard grade LC to reference grade ST multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR16S3-R3M02	Simplex standard grade SC to reference grade SC multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR16S3-R1M02	Simplex standard grade SC to reference grade LC multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR16S3-R2M02	Simplex standard grade SC to reference grade ST multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR16S2-R2M02	Simplex standard grade ST to reference grade ST multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR16S2-R1M02	Simplex standard grade ST to reference grade LC multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
FR16S2-R3M02	Simplex standard grade ST to reference grade SC multimode reference cable assembly, riser rated 2mm jacketed cable – 62.5/125µm.	2	1	10
OS1/OS2 Singlemode Duplex Reference Cable Assemblies				
FR29SL-RLM02	Duplex standard grade LC to reference grade LC singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR29SL-RSM02	Duplex standard grade LC to reference grade SC singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR29SL-R2M02	Duplex standard grade LC to reference grade ST singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR29SS-RSM02	Duplex standard grade SC to reference grade SC singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR29SS-RLM02	Duplex standard grade SC to reference grade LC singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR29SS-R2M02	Duplex standard grade SC to reference grade ST singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR29S2-R2M02	Duplex standard grade ST to reference grade ST singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR29S2-RLM02	Duplex standard grade ST to reference grade LC singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR29S2-RSM02	Duplex standard grade ST to reference grade SC singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10

Order number of pieces required, in multiples of Standard Package Quantity.

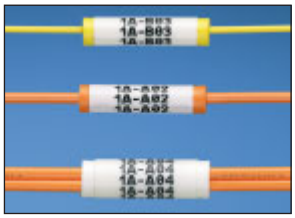
Prime items appear in **BOLD**.

OPTI-CORE® Fiber Optic Reference Cable Assemblies (continued)

Part Number	Part Description	Length (m)	Std. Pkg. Qty.	Std. Ctn. Qty.
OS1/OS2 Singlemode Simplex Reference Cable Assemblies				
FR19S1-R1M02	Simplex standard grade LC to reference grade LC singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR19S1-R3M02	Simplex standard grade LC to reference grade SC singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR19S1-R2M02	Simplex standard grade LC to reference grade ST singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR19S3-R3M02	Simplex standard grade SC to reference grade SC singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR19S3-R1M02	Simplex standard grade SC to reference grade LC singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR19S3-R2M02	Simplex standard grade SC to reference grade ST singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR19S2-R2M02	Simplex standard grade ST to reference grade ST singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR19S2-R1M02	Simplex standard grade ST to reference grade LC singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10
FR19S2-R3M02	Simplex standard grade ST to reference grade SC singlemode reference cable assembly, riser rated 2mm jacketed cable – 9/125µm.	2	1	10

LabelCore™ Fiber Optic Cable Identification System

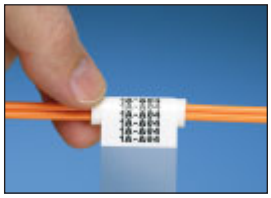
- Provides a larger labeling surface on small cables allowing legends to be clearly seen
- Sleeve is made of flexible PVC material
- Locate sleeve on straight section of cable at least 2.00" from fiber boot



Part Number	Part Description	Std. Pkg. Qty.*	Std. Ctn. Qty.
NWSLC-2Y	Yellow, cable identification sleeve for 2mm simplex fiber cable.	100	1000
NWSLC-3Y	Orange, cable identification sleeve for 3mm simplex fiber cable.	100	1000
NWSLC-7Y	White, cable identification sleeve for 3mm duplex fiber cable.	100	1000

*Order number of sleeves required.

Self-Laminating Labels for Laser/Ink Jet Desktop Printers Supplied on 8.50" x 11.00" Sheets

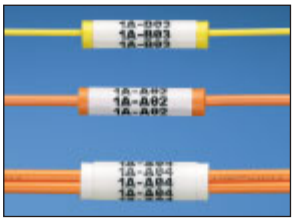


Apply *LabelCore*™ Sleeve to cable



Wrap self-laminating label around *LabelCore*™ Sleeve

Self-Laminating Labels for *LabelCore*™ Fiber Optic Cable Identification System



Suggested Label Solutions for TIA/EIA-606-A Compliance				
***LabelCore*™ Sleeve Part Number**	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PanTher*™ LS8E Hand-Held Printer Label**	***Cougar*™ LS9 Hand-Held Printer Label**
NWSLC-2Y	**S100X160YAJ**	**S100X150VATY**	**S100X160VAC**	**T100X000CBC-BK**
NWSLC-3Y				
NWSLC-7Y	**S100X220YAJ**	**S100X225VATY**	**S100X220VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

QuickNet™ Hydra Cable Assemblies

- Connectivity meets or exceeds TIA/EIA-568-B.3 and ISO/IEC 11801 performance requirements
- LC and SC connector housing and boot colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Jacketed cable is compliant with NFPA 262 (OFNP) flame rating
- MTP* (12-fiber) connectors are FOCIS-5 compliant
- Insertion loss per mated pair: 0.50dB typical, 0.75dB max.
- *PANDUIT* proprietary MTP* polishing provides low insertion loss and high return loss, minimizing variability for improved channel link loss performance
- Traditional connectors (*PANDUIT* LC, SC, and ST) provide design flexibility throughout the data center
- Insertion loss per mated pair: 0.10dB typical, 0.30dB max. (multimode); 0.25dB typical, 0.50dB max. (singlemode)
- Factory terminated and 100% tested for insertion loss (test data supplied with each assembly); singlemode and *10GIG*™ Multimode Hydra Cable Assemblies also tested for return loss
- TIA/EIA-568-B.1-7 standards based polarity supports 10 Gb/s, multimode, and singlemode fiber types, and allows infrastructure backwards compatibility for component interchangeability and a lower cost of ownership
- *10GIG*™ laser optimized fiber is tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters at 850nm
- Application specific designs available to tailor configuration, reach, and breakout construction to application requirements; for more information contact *PANDUIT* or visit www.panduit.com



FHPX126LM*N**

Part Number	Part Description	Length (m)^	Std. Pkg. Qty.
Male MTP* to LC Duplex – *10GIG*™ OM3 Multimode Plenum Hydra Cable Assemblies			
FHPX126LM005N	Male MTP* to LC duplex 12-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Hydra Cable Assembly with std. 24" (61cm) breakout length.	5	1
FHPX126LM010N	Male MTP* to LC duplex 12-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Hydra Cable Assembly with std. 24" (61cm) breakout length.	10	1
FHPX126LM015N	Male MTP* to LC duplex 12-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Hydra Cable Assembly with std. 24" (61cm) breakout length.	15	1
FHPX126LM020N	Male MTP* to LC duplex 12-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Hydra Cable Assembly with std. 24" (61cm) breakout length.	20	1
Male MTP* to LC Duplex – OM2 Multimode Plenum Hydra Cable Assemblies			
FHP5126LM005N	Male MTP* to LC duplex 12-fiber 50/125µm OM2 multimode plenum rated hydra cable assembly with std. 24" (61 cm) breakout length.	5	1
FHP5126LM010N	Male MTP* to LC duplex 12-fiber 50/125µm OM2 multimode plenum rated hydra cable assembly with std. 24" (61 cm) breakout length.	10	1
FHP5126LM015N	Male MTP* to LC duplex 12-fiber 50/125µm OM2 multimode plenum rated hydra cable assembly with std. 24" (61 cm) breakout length.	15	1
FHP5126LM020N	Male MTP* to LC duplex 12-fiber 50/125µm OM2 multimode plenum rated hydra cable assembly with std. 24" (61 cm) breakout length.	20	1
Male MTP* to LC Duplex – OS1/OS2 Singlemode Plenum Hydra Cable Assemblies			
FHP9126LM005N	Male MTP* to LC duplex 12-fiber 9/125µm OS1/OS2 singlemode plenum rated hydra cable assembly with std. 24" (61cm) breakout length.	5	1
FHP9126LM010N	Male MTP* to LC duplex 12-fiber 9/125µm OS1/OS2 singlemode plenum rated hydra cable assembly with std. 24" (61cm) breakout length.	10	1
FHP9126LM015N	Male MTP* to LC duplex 12-fiber 9/125µm OS1/OS2 singlemode plenum rated hydra cable assembly with std. 24" (61cm) breakout length.	15	1
FHP9126LM020N	Male MTP* to LC duplex 12-fiber 9/125µm OS1/OS2 singlemode plenum rated hydra cable assembly with std. 24" (61cm) breakout length.	20	1

^Additional lengths and availability: The above lengths and configurations are stock items. For other lengths or configurations, contact Customer Service for actual lead times.

For MTP* Connector Cleaning Tools, see page C.107.

*MTP is a registered trademark of US Conec Ltd.

Cable Self-Laminating Labels for *QuickNet*™ Hydra Cable Assemblies



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PanTher*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand-Held Printer Label
All FHP parts	S100X160YAJ and NWSLC-3Y‡	S100X150VATY and NWSLC-3Y‡	S100X160VAC and NWSLC-3Y‡	T100X000CBC-BK and NWSLC-3Y‡

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For complete information on fiber optic cable identification solutions, reference page C.92.

QuickNet™ MTP* Interconnect Cable Assemblies – Multimode *10Gig*™ 50/125µm (OM3)

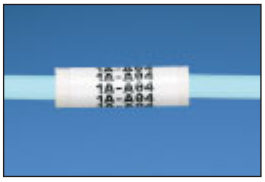
- Pass all TIA/EIA-568-B.3 performance requirements
- FOCIS-5 compliant
- Insertion loss per mated pair: 0.50dB typical; 0.75dB max.
- Tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters at 850nm with 50/125µm (OM3) laser optimized fiber
- Backward compatible with all 50/125µm (OM2) MPO or MTP* system requirements
- Factory terminated and 100% tested for insertion loss
- Insertion loss and return loss data recorded for every *10Gig*™ Multimode Interconnect Cable Assembly
- Lifetime traceability of test data to a Q.C. number on each cable assembly



Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
FX12D5-5M1Y	Female MTP* to female MTP* 12-fiber interconnect cable assembly (one female MTP* connector on each end on ribbon interconnect cable) – *10Gig*™ 50/125µm.	1	1	10

^Additional lengths and availability: Interconnect cable assemblies are available in 1 – 10 meter lengths in 1 meter increments, and 15, 20, 25 and 30 meter lengths. To order lengths other than 1 meter, replace the 1 after the M (FX12D5-5M1Y) with the desired length (FX12D5-5M2Y for 2 meter length). The above lengths are stock items. For other lengths or male MTPs*, contact Customer Service for actual lead times.
For MTP* Connector Cleaning Tools, see page C.107.
*MTP is a registered trademark of US Conec Ltd.

Cable Labels for *QuickNet*™ MTP* Interconnect Cable Assemblies – Multimode *10Gig*™ 50/125µm (OM3)



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PanTher*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand-Held Printer Label
FX12D5-5M*Y	S100X220YAJ and NWSLC-7Y‡	S100X225VATY and NWSLC-7Y‡	S100X220VAC and NWSLC-7Y‡	T100X000CBC-BK and NWSLC-7Y

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For complete information on fiber optic cable identification solutions, reference page C.92.
*MTP is a registered trademark of US Conec Ltd.

QuickNet™ MTP* Interconnect Cable Assemblies – Multimode 50/125µm (OM2)

- Pass all TIA/EIA-568-B.3 performance requirements
- FOCIS-5 compliant
- Insertion loss per mated pair: 0.50dB typical; 0.75dB max.
- Factory terminated and 100% tested for insertion loss
- Insertion loss data recorded for every multimode cable assembly
- Lifetime traceability of test data to a Q.C. number on each cable assembly



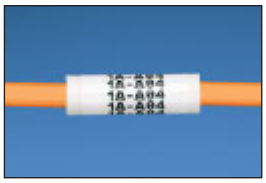
Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
F512D5-5M1Y	Female MTP* to female MTP* 12-fiber interconnect cable assembly (one female MTP* connector on each end on ribbon interconnect cable) – 50/125µm.	1	1	10

^Additional lengths and availability: Interconnect cable assemblies are available in 1 – 10 meter lengths in 1 meter increments, and 15, 20, 25 and 30 meter lengths. To order lengths other than 1 meter, replace the 1 after the M (F512D5-5M1Y) with the desired length (F512D5-5M2Y for 2 meter length). The above lengths are stock items. For other lengths or male MTPs*, contact Customer Service for actual lead times.

For MTP* Connector Cleaning Tools, see page C.107.

*MTP is a registered trademark of US Conec Ltd.

Cable Labels for *QuickNet*™ MTP* Interconnect Cable Assemblies – Multimode 50/125µm (OM2)



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Cable Assembly Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*Panther*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand-Held Printer Label
F512D5-5M*Y	S100X220YAJ and NWSLC-7Y‡	S100X225VATY and NWSLC-7Y‡	S100X220VAC and NWSLC-7Y‡	T100X000CBC-BK and NWSLC-7Y

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For complete information on fiber optic cable identification solutions, reference page C.92.
*MTP is a registered trademark of US Conec Ltd.

QuickNet™ MTP* Interconnect Cable Assemblies – Multimode 62.5/125µm (OM1)

- Pass all TIA/EIA-568-B.3 performance requirements
- FOCIS-5 compliant
- Insertion loss per mated pair: 0.50dB typical; 0.75dB max.
- Factory terminated and 100% tested for insertion loss
- Insertion loss data recorded for every multimode cable assembly
- Lifetime traceability of test data to a Q.C. number on each cable assembly



F612D5-5M*Y



F612D3-5M*Y

Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
4-Fiber Interconnect Cable Assembly – Female MTP* to Female MTP*				
F64D5-5M1Y	Female MTP* to female MTP* 4-fiber interconnect cable assembly (one female MTP* connector on each end on ribbon interconnect cable) – 62.5/125µm.	1	1	10
6-Fiber Interconnect Cable Assembly – Female MTP* to Female MTP*				
F66D5-5M1Y	Female MTP* to female MTP* 6-fiber interconnect cable assembly (one female MTP* connector on each end on ribbon interconnect cable) – 62.5/125µm.	1	1	10
8-Fiber Interconnect Cable Assembly – Female MTP* to Female MTP*				
F68D5-5M1Y	Female MTP* to female MTP* 8-fiber interconnect cable assembly (one female MTP* connector on each end on ribbon interconnect cable) – 62.5/125µm.	1	1	10
12-Fiber Interconnect Cable Assembly – Female MTP* to Female MTP*				
F612D5-5M1Y	Female MTP* to female MTP* 12-fiber interconnect cable assembly (one female MTP* connector on each end on ribbon interconnect cable) – 62.5/125µm.	1	1	10
6-Fiber Interconnect Cable Assembly – Six ST Connectors to Female MTP*				
F66D2-5M1Y	ST to female MTP* 6-fiber interconnect cable assembly (six ST connectors on one end and one female MTP* connector on the other end on ribbon interconnect cable) – 62.5/125µm.	1	1	10
6-Fiber Interconnect Cable Assembly – Six SC Connectors to Female MTP*				
F66D3-5M1Y	SC to female MTP* 6-fiber interconnect cable assembly (six SC connectors on one end and one female MTP* connector on the other end on ribbon interconnect cable) – 62.5/125µm.	1	1	10
12-Fiber Interconnect Cable Assembly – Twelve SC Connectors to Female MTP*				
F612D3-5M1Y	SC to female MTP* 12-fiber interconnect cable assembly (twelve SC connectors on one end and one female MTP* connector on the other end on ribbon interconnect cable) – 62.5/125µm.	1	1	10
8-Fiber Interconnect Cable Assembly – Four FJ® Jack Modules to Female MTP*				
F68D6J-5M1Y	FJ® Jack Module to female MTP* 8-fiber interconnect cable assembly (four FJ® Jack Modules on one end and one female MTP* connector on the other end on ribbon interconnect cable) – 62.5/125µm.	1	1	10

^Additional lengths and availability: 12-fiber interconnect cable assemblies are available in 1 – 10 meter lengths in 1 meter increments, and 15, 20, 25 and 30 meter lengths. All other cable assemblies above are available in 1, 2, 3 and 10 meter lengths. To order lengths other than 1 meter, replace the 1 after the M (F612D5-5M1Y) with the desired length (F612D5-5M2Y for 2 meter length). The above lengths are stock items. For other lengths or male MTPs*, contact Customer Service for actual lead times.

For MTP* Connector Cleaning Tools, see page C.107.

*MTP is a registered trademark of US Conec Ltd.

Cable Labels for *QuickNet*™ MTP* Interconnect Cable Assemblies – Multimode 62.5/125µm (OM1)



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Cable Assembly Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43M Thermal Transfer Desktop Printer Label**	***PanTher*™ LS8 Hand-Held Printer Label**	***Cougar*™ LS9 Hand-Held Printer Label**
All MTP* Interconnect Cable Assemblies on this page	**S100X220YAJ and NWSLC-7Y‡**	**S100X225VATY and NWSLC-7Y‡**	**S100X220VAC and NWSLC-7Y‡**	**T100X000CBC-BK and NWSLC-7Y**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

‡For complete information on fiber optic cable identification solutions, reference page C.92.

*MTP is a registered trademark of US Conec Ltd.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

QuickNet™ MTP* Interconnect Cable Assemblies – Singlemode 9/125µm (OS1/OS2)

- Pass all TIA/EIA-568-B.3 performance requirements
- FOCIS-5 compliant
- 100% factory inspected end face geometry (SC, ST, and FJ® end faces are 100% inspected in compliance with Telcordia GR-326-CORE, Issue 3)
- Insertion loss per mated pair: 0.50dB typical; 0.75dB max.
- 8-degree APC polish (55dB minimum Return Loss) on singlemode MTP* and UPC polish (55dB minimum Return Loss) on singlemode SC, ST, and FJ® satisfy high-speed network application requirements
- Factory terminated and 100% tested for insertion loss and return loss
- Insertion loss and return loss data recorded for every singlemode cable assembly
- Lifetime traceability of test data to a Q.C. number on each cable assembly



F912D5-5M*Y



F96D3-5M*Y

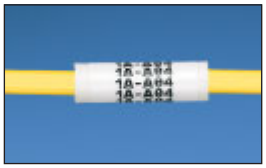
Part Number	Part Description	Length (m)^	Std. Pkg. Qty.	Std. Ctn. Qty.
4-Fiber Interconnect Cable Assembly – Female MTP* to Female MTP*				
F94D5-5M1Y	Female MTP* to female MTP* 4-fiber interconnect cable assembly (one female MTP* connector on each end on ribbon interconnect cable) – 9/125µm.	1	1	10
6-Fiber Interconnect Cable Assembly – Female MTP* to Female MTP*				
F96D5-5M1Y	Female MTP* to female MTP* 6-fiber interconnect cable assembly (one female MTP* connector on each end on ribbon interconnect cable) – 9/125µm.	1	1	10
8-Fiber Interconnect Cable Assembly – Female MTP* to Female MTP*				
F98D5-5M1Y	Female MTP* to female MTP* 8-fiber interconnect cable assembly (one female MTP* connector on each end on ribbon interconnect cable) – 9/125µm.	1	1	10
12-Fiber Interconnect Cable Assembly – Female MTP* to Female MTP*				
F912D5-5M1Y	Female MTP* to female MTP* 12-fiber interconnect cable assembly (one female MTP* connector on each end on ribbon interconnect cable) – 9/125µm.	1	1	10
6-Fiber Interconnect Cable Assembly – Six ST Connectors to Female MTP*				
F96D2-5M1Y	ST to female MTP* 6-fiber interconnect cable assembly (six ST connectors on one end and one female MTP* connector on the other end on ribbon interconnect cable) – 9/125µm.	1	1	10
6-Fiber Interconnect Cable Assembly – Six SC Connectors to Female MTP*				
F96D3-5M1Y	SC to female MTP* 6-fiber interconnect cable assembly (six SC connectors on one end and one female MTP* connector on the other end on ribbon interconnect cable) – 9/125µm.	1	1	10
12-Fiber Interconnect Cable Assembly – Twelve SC Connectors to Female MTP*				
F912D3-5M1Y	SC to MTP* female 12-fiber interconnect cable assembly (twelve SC connectors on one end and one female MTP* connector on the other end on ribbon interconnect cable) – 9/125µm.	1	1	10
8-Fiber Interconnect Cable Assembly – Four FJ® Jack Modules to Female MTP*				
F98D6J-5M1Y	FJ® Jack Module to female MTP* 8-fiber interconnect cable assembly (four FJ® Jack Modules on one end and one female MTP* connector on the other end on ribbon interconnect cable) – 9/125µm.	1	1	10

^Additional lengths and availability: 12-fiber interconnect cable assemblies are available in 1 – 10 meter lengths in 1 meter increments, and 15, 20, 25 and 30 meter lengths. All other cable assemblies above are available in 1, 2, 3 and 10 meter lengths. To order lengths other than 1 meter, replace the 1 after the M (F912D5-5M1Y) with the desired length (F912D5-5M2Y for 2 meter length). The above lengths are stock items. For other lengths or male MTPs*, contact Customer Service for actual lead times.

For MTP* Connector Cleaning Tools, see page C.107.

*MTP is a registered trademark of US Conec Ltd.

Cable Labels for *QuickNet*™ MTP* Interconnect Cable Assemblies – Singlemode 9/125µm (OS1/OS2)



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Cable Assembly Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PanTher*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand-Held Printer Label
All MTP* Interconnect Cable Assemblies	**S100X220YAJ and NWSLC-7Y‡**	**S100X225VATY and NWSLC-7Y‡**	**S100X220VAC and NWSLC-7Y‡**	**T100X000CBC-BK and NWSLC-7Y**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For complete information on fiber optic cable identification solutions, reference page C.92.
*MTP is a registered trademark of US Conec Ltd.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

QuickNet™ MTP* Trunk Cable Assemblies

- Connectivity meets or exceeds TIA/EIA-568-B.3 and ISO/IEC 11801 performance requirements
- Jacketed cable is compliant with NFPA 262 (OFNP) flame rating
- MTP* (12-fiber) connectors are FOCIS-5 compliant
- Insertion loss per mated pair: 0.50dB typical, 0.75dB max.
- *PANDUIT* proprietary MTP* polishing provides low insertion loss and high return loss, minimizing variability for improved channel link loss performance
- Factory terminated and 100% tested for insertion loss (test data supplied with each assembly); singlemode and *10GIG*™ Multimode Trunk Cable Assemblies are also tested for return loss
- TIA/EIA-568-B.1-7 (Method A) standards based polarity supports 10 Gb/s, multimode, and singlemode fiber types, and allows infrastructure backwards compatibility for component interchangeability and a lower cost of ownership
- *10GIG*™ laser optimized fiber is tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters at 850nm
- Application specific designs available to tailor configuration, reach, and breakout construction to application requirements; for more information contact *PANDUIT* or visit www.panduit.com



FSPX2455F*A**

Part Number	Part Description	Length (Ft.)^	Std. Pkg. Qty.
Female MTP* to Female MTP* – *10GIG*™ OM3 Multimode Plenum Trunk Cable Assemblies			
FSPX1255F100A	Female MTP* to female MTP* 12-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	100	1
FSPX1255F150A	Female MTP* to female MTP* 12-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	150	1
FSPX1255F200A	Female MTP* to female MTP* 12-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	200	1
FSPX2455F100A	Female MTP* to female MTP* 24-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	100	1
FSPX2455F150A	Female MTP* to female MTP* 24-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	150	1
FSPX2455F200A	Female MTP* to female MTP* 24-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	200	1
FSPX4855F100A	Female MTP* to female MTP* 48-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	100	1
FSPX4855F150A	Female MTP* to female MTP* 48-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	150	1
FSPX4855F200A	Female MTP* to female MTP* 48-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	200	1

^Additional lengths and availability: The above lengths and configurations are stock items. For other lengths or configurations, contact Customer Service for actual lead times.

For MTP* Connector Cleaning Tools, see page C.107.

*MTP is a registered trademark of US Conec Ltd.

Table continues on page C.100

QuickNet™ MTP* Trunk Cable Assemblies (continued)



FSP52455F***A

Part Number	Part Description	Length (Ft.)^	Std. Pkg. Qty.
Female MTP* to Female MTP* – OM2 Multimode Plenum Trunk Cable Assemblies			
FSP51255F100A	Female MTP* to female MTP* 12-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	100	1
FSP51255F150A	Female MTP* to female MTP* 12-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	150	1
FSP51255F200A	Female MTP* to female MTP* 12-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	200	1
FSP52455F100A	Female MTP* to female MTP* 24-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	100	1
FSP52455F150A	Female MTP* to female MTP* 24-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	150	1
FSP52455F200A	Female MTP* to female MTP* 24-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	200	1
FSP54855F100A	Female MTP* to female MTP* 48-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	100	1
FSP54855F150A	Female MTP* to female MTP* 48-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	150	1
FSP54855F200A	Female MTP* to female MTP* 48-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	200	1
Female MTP* to Female MTP* – OS1/OS2 Singlemode Plenum Trunk Cable Assemblies			
FSP91255F100A	Female MTP* to female MTP* 12-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	100	1
FSP91255F150A	Female MTP* to female MTP* 12-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	150	1
FSP91255F200A	Female MTP* to female MTP* 12-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	200	1
FSP92455F100A	Female MTP* to female MTP* 24-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	100	1
FSP92455F150A	Female MTP* to female MTP* 24-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	150	1
FSP92455F200A	Female MTP* to female MTP* 24-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	200	1
FSP94855F100A	Female MTP* to female MTP* 48-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	100	1
FSP94855F150A	Female MTP* to female MTP* 48-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	150	1
FSP94855F200A	Female MTP* to female MTP* 48-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	200	1

^Additional lengths and availability: The above lengths and configurations are stock items. For other lengths or configurations, contact Customer Service for actual lead times.

For MTP* Connector Cleaning Tools, see page C.107.

*MTP is a registered trademark of US Conec Ltd.

OPTI-CORE® Traditional Trunk Cable Assemblies

- Connectivity meets or exceeds TIA/EIA-568-B.3 and ISO/IEC 11801 performance requirements
- LC and SC connector housing and boot colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Jacketed cable is compliant with UL1666 (OFNR) or NFPA 262 (OFNP) flame rating
- Insertion loss per mated pair: 0.10dB typical, 0.30dB max. (multimode); 0.25dB typical, 0.50dB max. (singlemode)
- Traditional connectors (*PANDUIT* LC, SC, and ST) provide design flexibility throughout the data center
- Factory terminated and 100% tested for insertion loss (test data supplied with each assembly); singlemode and *10GIG*™ Multimode Trunk Cable Assemblies are also tested for return loss
- *10GIG*™ laser optimized fiber is tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters at 850nm
- Application specific designs available to tailor configuration, reach, and breakout construction to application requirements; for more information contact *PANDUIT* or visit www.panduit.com



FSP51211F*A**

Part Number	Part Description	Length (Ft.)^	Std. Pkg. Qty.
LC to LC Simplex – *10GIG*™ OM3 Multimode Plenum Trunk Cable Assemblies			
FSPX1211F100A	LC to LC simplex 12-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	100	1
FSPX1211F150A	LC to LC simplex 12-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	150	1
FSPX1211F200A	LC to LC simplex 12-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	200	1
FSPX2411F100A	LC to LC simplex 24-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	100	1
FSPX2411F150A	LC to LC simplex 24-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	150	1
FSPX2411F200A	LC to LC simplex 24-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	200	1
FSPX4811F100A	LC to LC simplex 48-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	100	1
FSPX4811F150A	LC to LC simplex 48-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	150	1
FSPX4811F200A	LC to LC simplex 48-fiber *10GIG*™ 50/125µm OM3 Multimode Plenum Rated Trunk Cable Assembly with pulling eye on one end.	200	1

^Additional lengths and availability: The above lengths and configurations are stock items. For other lengths or configurations, contact Customer Service for actual lead times.

Table continues on page C.102

OPTI-CORE® Traditional Trunk Cable Assemblies (continued)

Part Number	Part Description	Length (Ft.)^	Std. Pkg. Qty.
LC to LC Simplex – OM2 Multimode Plenum Trunk Cable Assemblies			
FSP51211F100A	LC to LC simplex 12-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	100	1
FSP51211F150A	LC to LC simplex 12-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	150	1
FSP51211F200A	LC to LC simplex 12-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	200	1
FSP52411F100A	LC to LC simplex 24-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	100	1
FSP52411F150A	LC to LC simplex 24-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	150	1
FSP52411F200A	LC to LC simplex 24-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	200	1
FSP54811F100A	LC to LC simplex 48-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	100	1
FSP54811F150A	LC to LC simplex 48-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	150	1
FSP54811F200A	LC to LC simplex 48-fiber 50/125µm OM2 multimode plenum rated trunk cable assembly with pulling eye on one end.	200	1
LC to LC Simplex – OS1/OS2 Singlemode Plenum Trunk Cable Assemblies			
FSP91211F100A	LC to LC simplex 12-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	100	1
FSP91211F150A	LC to LC simplex 12-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	150	1
FSP91211F200A	LC to LC simplex 12-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	200	1
FSP92411F100A	LC to LC simplex 24-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	100	1
FSP92411F150A	LC to LC simplex 24-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	150	1
FSP92411F200A	LC to LC simplex 24-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	200	1
FSP94811F100A	LC to LC simplex 48-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	100	1
FSP94811F150A	LC to LC simplex 48-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	150	1
FSP94811F200A	LC to LC simplex 48-fiber 9/125µm OS1/OS2 singlemode plenum rated trunk cable assembly with pulling eye on one end.	200	1

^Additional lengths and availability: The above lengths and configurations are stock items. For other lengths or configurations, contact Customer Service for actual lead times.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

OPTICAM® Pre-Polished Cam Fiber Optic Termination Kits

- For termination of all *PANDUIT*® *OPTICAM*® Pre-Polished Connectors
- *OPTICAM*® Termination Tool simplifies tooling and termination, and virtually eliminates operator error by providing visual indication of proper termination after the cam step has been completed
- No adhesive or electricity required for termination
- Include installation instructions and stripping templates for all *PANDUIT*® *OPTICAM*® Pre-Polished Connectors; also available on www.panduit.com



FCAMKIT



FPPKIT-CVY

Part Number	Part Description	Std. Pkg. Qty.
***OPTICAM*® Pre-Polished Cam Termination Kit**		
FCAMKIT	Tools, consumables, installation instructions and stripping templates necessary for termination of all *PANDUIT*® *OPTICAM*® Pre-Polished Cam Connectors.	1
***OPTICAM*® Conversion Kit – Converts *OPTI-CRIMP*® Termination Kit for *OPTICAM*® Termination**		
FPPKIT-CVY	Converts *OPTI-CRIMP*® Termination Kits with the additional tools, installation instructions, and stripping templates required for termination of all *PANDUIT*® *OPTICAM*® Pre-Polished Cam Connectors; includes *OPTICAM*® Termination Tool and cradles, and FVFLPC-2.5SMY and FVFLPC-1.25SMY patch cords.	1
Cleaning Consumables Kit		
FCLEANKIT	Replenishes the cleaning consumables required for termination of all fiber optic connectors; includes all of the same cleaning consumable items that are included in all *PANDUIT* termination kits.	1
Field Polish Kit Upgrade for *OPTICAM*® Connector Termination		
FIELDKITUPG	Upgrades FIELDKIT with the additional tools, consumables, installation instructions and stripping templates required for termination of all *PANDUIT*® *OPTICAM*® Pre-Polished Cam Connectors.	1

For field polish termination kits, see page C.105, C.106.

Components for *OPTICAM*® Pre-Polished Cam Termination Kits



OCTT



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Tools (included in FCAMKIT)			
FKITCASE	Case for fiber termination kits.	1	—
CST115	Fiber cable jacket stripper.	1	—
FALC	Alcohol bottle (empty).	1	10
FBFSP	Fiber buffer stripper.	1	10
FSCDVR	Screwdriver.	1	50
FGLS	Safety glasses.	1	10
FTWZR	Tweezers.	1	10
FWBTL	Water bottle (empty).	1	10
FKS	Fiber Kevlar shears.	1	10
FWRKMAT	Fiber safe workmat.	1	10
Tools (included in FCAMKIT and FIELDKITUPG)			
FJQCVR	Fiber cleaver tool.	1	10
OCTT	*OPTICAM*® Termination Tool; includes batteries, pouch, and two cradles for each *OPTICAM*® Connector – LC, SC, and ST (patch cords available separately).	1	—
FVFLPC-2.5SMY	Patch cord for all *OPTICAM*® 2.5mm ferrule connectors (SC & ST).	1	10
FVFLPC-1.25SMY	Patch cord for all *OPTICAM*® 1.25mm ferrule connectors (LC).	1	10
Cleaning Consumables (included in FCAMKIT and FCLEANKIT)			
FWP-C	Lint-free wipes.	100	1000
FSWB-C	Cleaning swabs.	100	1000
FSTY	Safety stickers for fiber scraps.	1	10
PFX-0	Permanent marking pen, fine tip, black ink (one included in each kit).	12	144
Replacement Parts			
FJQCVRB	Replacement blade for FJQCVR.	1	10
FSCC	Tool cradles for SC *OPTICAM*® Connectors (two per package).	1	—
FLCC	Tool cradles for LC *OPTICAM*® Connectors (two per package).	1	—
FSTC	Tool cradles for ST *OPTICAM*® Connectors (two per package).	1	—

OPTI-CRIMP® Pre-Polished Crimp Fiber Optic Termination Kits

- For termination of all *PANDUIT*® *OPTI-CRIMP*® Pre-Polished Crimp Connectors
- Includes FVFLY visual fault locator and FVFLPCY patch cord for visual verification of optimal continuity between the field fiber and the pre-polished fiber stub during crimp termination
- No adhesive required for termination
- Includes installation instructions and stripping templates for all *PANDUIT*® *OPTI-CRIMP*® Pre-Polished Crimp Connectors and FJ® *OPTI-CRIMP*® Pre-Polished Crimp Jack Modules; also available on www.panduit.com



FJMVKITY

Part Number	Part Description	Std. Pkg. Qty.
***OPTI-CRIMP*® Pre-Polished Crimp Termination Kit**		
FJMVKITY	Tools, consumables, installation instructions and stripping templates necessary for termination of SC, ST, and FJ® *OPTI-CRIMP*® Pre-Polished Crimp Multimode Connectors and Jack Modules onto 3mm jacketed cable and 900µm tight-buffered fiber.	1
Cleaning Consumables Kit		
FCLEANKIT	Replenishes the cleaning consumables required for termination of all fiber optic connectors; includes all of the same cleaning consumable items that are included in all *PANDUIT* termination kits.	1

For *OPTICAM*® Pre-Polished Cam Termination Kits, see page C.103.

Components for *OPTI-CRIMP*® Pre-Polished Crimp Termination Kits



FVFLY and FVFLPCY

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Tools (included in FJMVKITY)			
FKITCASE	Case for fiber termination kits.	1	—
CST115	Fiber cable jacket stripper.	1	—
FALC	Alcohol bottle (empty).	1	10
FBFSP	Fiber buffer stripper.	1	10
FSCDVR	Screwdriver.	1	50
FGLS	Safety glasses.	1	10
FTWZR	Tweezers.	1	10
FWBTL	Water bottle (empty).	1	10
FKS	Fiber Kevlar shears.	1	10
FWRKMAT	Fiber safe workmat.	1	10
FJQCVR	Fiber cleaver tool.	1	10
FCRP5	Crimp tool (hex sizes: 0.048", 0.100", 0.128", 0.151", 0.190").	1	—
FVFLY	Visual fault locator (includes batteries and instructions).	1	—
FVFLPCY	Patch cord for all *OPTI-CRIMP*® Connectors (1 meter long).	1	10
Cleaning Consumables (included in FJMVKITY and FCLEANKIT)			
FWP-C	Lint-free wipes.	100	1000
FSWB-C	Cleaning swabs.	100	1000
FSTY	Safety stickers for fiber scraps.	1	10
PFX-0	Permanent marking pen – fine tip (one included in each kit).	12	144
Replacement Parts			
FJQCVRB	Replacement blade for FJQCVR.	1	10
CD-FCRP5	Die set for FCRP5 tool.	1	—
Additional Tools Required for Terminating SC *OPTI-CRIMP*® Connectors onto 1.6mm – 2.0mm Jacketed Cable (Select only one Heat Shrink Curing Tool)			
FLPT	Crimp tool required for 1.6mm/2.0mm jacketed cable termination.	1	—
FHSCT	Heat shrink curing tool (110VAC, 60Hz) required for 1.6mm/2.0mm jacketed cable termination (included in FIELDKIT and FCAMKITUPG).	1	—
FHSCT-W	Heat shrink curing tool (230VAC, 50Hz) required for 1.6mm/2.0mm jacketed cable termination (included in FIELDKIT-G and FCAMKITUPG-G).	1	—

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Field Polish Fiber Optic Termination Kits

- For termination of all *PANDUIT* field polish connectors
- Fast acting adhesive; no long curing epoxy required for termination
- Kit provides consumables for terminating up to 200 field polish connectors
- Include installation instructions and stripping templates for all *PANDUIT* field polish connectors; also available on www.panduit.com



FIELDKIT

Part Number	Part Description	Std. Pkg. Qty.
Field Polish Termination Kits		
FIELDKIT	Tools, consumables, installation instructions and stripping templates necessary for termination of all *PANDUIT* field polish connectors; includes FHSCT heat shrink curing tool – 110VAC, 60Hz.	1
FIELDKIT-G	Tools, consumables, installation instructions and stripping templates necessary for termination of all *PANDUIT* field polish connectors; includes FHSCT-W heat shrink curing tool – 230VAC, 50Hz.	1
Field Polish Consumables Refurbishment Kit		
FIELDKITRFB	Replenishes the field polish consumables required for termination of all field polish connectors; includes all of the same consumable items as the FIELDKIT or FIELDKIT-G field polish termination kit.	1
Cleaning Consumables Kit		
FCLEANKIT	Replenishes the cleaning consumables required for termination of all fiber optic connectors; includes all of the same cleaning consumable items that are included in all *PANDUIT* termination kits.	1
***OPTICAM*® Kit Upgrade for Field Polish Connector Termination**		
FCAMKITUPG	Upgrades FCAMKIT with the additional tools, consumables, installation instructions and stripping templates required for termination of all *PANDUIT* field polish connectors; includes FHSCT heat shrink curing tool – 110VAC, 60Hz.	1
FCAMKITUPG-G	Upgrades FCAMKIT with the additional tools, consumables, installation instructions and stripping templates required for termination of all *PANDUIT* field polish connectors; includes FHSCT-W heat shrink curing tool – 230VAC, 50Hz.	1

For *OPTICAM*® Pre-Polished Cam Termination Kits, see page C.103.

Components for Field Polish Fiber Optic Termination Kits

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Tools (included in FIELDKIT and FIELDKIT-G)			
FKITCASE	Case for fiber termination kits.	1	—
CST115	Fiber cable jacket stripper.	1	—
FALC	Alcohol bottle (empty).	1	10
FBFSP	Fiber buffer stripper.	1	10
FSCDVR	Screwdriver.	1	50
FGLS	Safety glasses.	1	10
FTWZR	Tweezers.	1	10
FWBTL	Water bottle (empty).	1	10
FKS	Fiber Kevlar shears.	1	10
FWRKMAT	Fiber safe workmat.	1	10
Tools (included in FIELDKIT, FIELDKIT-G, FCAMKITUPG and FCAMKITUPG-G)			
FSCRIBE	Carbide scribe.	1	10
FLCASCP	1.25mm adapter for FSCOPE.	1	—
FLOUPEX10	Eye loupe (10x).	1	—
FCRP5	Crimp tool (hex sizes: 0.048", 0.100", 0.128", 0.151", 0.190").	1	—
FLPT	Crimp tool required for 1.6mm/2.0mm jacketed cable termination.	1	—
FJPKGU	Universal polishing puck (2.5mm ferrule).	1	10
FLCPK	LC polishing puck (1.25mm ferrule).	1	—
FPAD	Fiber polishing pad (70 durometer).	1	10
FLCPAD	Polishing pad and plate (85 durometer).	1	10
FHSCT	Heat shrink curing tool (110VAC, 60Hz) required for 1.6mm/2.0mm jacketed cable termination (included in FIELDKIT and FCAMKITUPG).	1	—
FHSCT-W	Heat shrink curing tool (230VAC, 50Hz) required for 1.6mm/2.0mm jacketed cable termination (included in FIELDKIT-G and FCAMKITUPG-G).	1	—
Field Polish Consumables (included in FIELDKIT, FIELDKIT-G, FIELDKITRFB, FCAMKITUPG and FCAMKITUPG-G)			
FSYR-X	Syringes with needle tips.	10	50
FPWIRE	Piano wire.	1	10
LJSL4-Y3-2.5	Cable labels.	1	10
FJPMR	Primer (50ml).	1	10
FJPXY	Anaerobic adhesive (10ml).	1	10
FPP5-L	5µm polishing paper (AL_2O_3).	50	250
FPF1-V	1µm diamond polishing film.	5	50
FLCFPLF-X	0.05µm lapping film.	10	—
Cleaning Consumables (included in FIELDKIT, FIELDKIT-G, FIELDKITRFB and FCLEANKIT)			
FWP-C	Lint-free wipes.	100	1000
FSWB-C	Cleaning swabs.	100	1000
FSTY	Safety stickers for fiber scraps.	1	10
PFX-0	Permanent marking pen – fine tip (one included in each kit).	1	10
Replacement Parts			
FSCRBLD	Replacement blade for carbide scribe.	1	10

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

MTP* Connector Cleaning Tools

- All tools feature a dry cloth cleaning system with an ultra clean micro-fiber cloth that captures debris and contamination
- Anti-static cloth minimizes additional debris from being attracted to connector surfaces
- Densely woven, robust cloth doesn't fray or leave fibrous materials behind
- Easy-to-install replacement reels are available for reel type MTP* connector cleaning tools (FMTPFCT and FMTPMFCT) for continuous cleaning without the need for tool replacement
- *QuickNet*™ Cassette MTP* Connector Cleaning Tool is designed to clean MTP* connectors inside *QuickNet*™ Cassettes, adapters, faceplates or bulkheads
- *QuickNet*™ Cassette MTP* Connector Cleaning Tool's unique design enables cleaning of male (with pins) or female (without pins) MTP* connectors
- All tools and refills can be used to clean 400 MTP* or MPO connectors



FMTPFCT



FMTPMFCT



FIBCCT



FMTPRR6

Part Number	Part Description	Std. Pkg. Qty.
Reel Type MTP* Connector Cleaning Tools		
FMTPFCT	Reel type MTP* connector cleaning tool for cleaning MTP* female connectors (without pins).	1
FMTPMFCT	Reel type MTP* connector cleaning tool for cleaning MTP* male connectors (with pins).	1
***QuickNet*™ Cassette MTP* Connector Cleaning Tool**		
FIBCCT	*QuickNet*™ Cassette MTP* connector cleaning tool for cleaning MTP* connectors inside *QuickNet*™ Cassettes, adapters, faceplates or bulkheads.	1
Cleaning Reel Refill for Reel Type MTP* Connector Cleaning Tools		
FMTPRR6	Cleaning reel refill for FMTPFCT and FMTPMFCT reel type MTP* connector cleaning tools (includes six reels).	1

*MTP is a registered trademark of US Conec Ltd.

Patch Cord Removal Tool

NEW!

- Tool arms allow the installer to pass over cabling which interferes with accessibility
- Compatible with copper and fiber patch cords in adapter panels, pre-terminated cassettes, and enclosures
- Optional flashlight kit (KPCRT-FL) attaches to top of tool



PCRT1



KPCRT-FL

Part Number	Part Description	Std. Pkg. Qty.
PCRT1	Easily removes copper and fiber patch cords in dense rack installations.	1
KPCRT1-FL	Flashlight kit for patch cord removal tool (PCRT1).	1

OPTICOM® High-Density Connector and Patch Cord Removal Tool

- Provides easy access for inserting and removing connectors to minimize adjacent connector disturbance, especially in high-density applications
- Used with simplex and duplex LC and SC connectors in fiber adapter panels, pre-terminated cassettes, and enclosures
- Tool includes end effectors for LC connectors and a carrying case for storage and transportation
- Removable end effectors for SC or LC connectors and LED light for working in dimly lit areas are available separately



HDCRT



KHDCRT-FL



KHDCRT-SCE

Part Number	Part Description	Std. Pkg. Qty.
***OPTICOM*® High-Density Connector Removal Tool**		
HDCRT	High-density connector removal tool includes end effector for simplex and duplex LC connectors.	1
Accessories		
KHDCRT-FL	Flashlight kit for HDCRT tool.	1
KHDCRT-SCE	End effector for simplex and duplex SC connectors.	1
KHDCRT-LCE	Replacement end effector for simplex and duplex LC connectors.	1

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Power over Ethernet Systems

As organizations continue to deploy emerging applications such as IP surveillance cameras, IP Telephony, wireless access points (WAPs) and intelligent buildings it is increasingly necessary to seek out cost savings, power management, and network reliability to support these growing for network infrastructures. Utilizing new or existing Ethernet wiring systems to send both data and power together, Power over Ethernet (PoE) offers a cost-effective advancement to resolve these challenges while expanding network infrastructure capabilities.

As a leading provider of PoE technology, *PANDUIT® DPoE™* Power over Ethernet Systems utilize power patch panels in various port and data capability designs, a compact power midspan with 2X power (up to 32 watts), and power systems with low heat dissipation to enable greater network design modularity, simplify installations, and lower total cost of ownership.



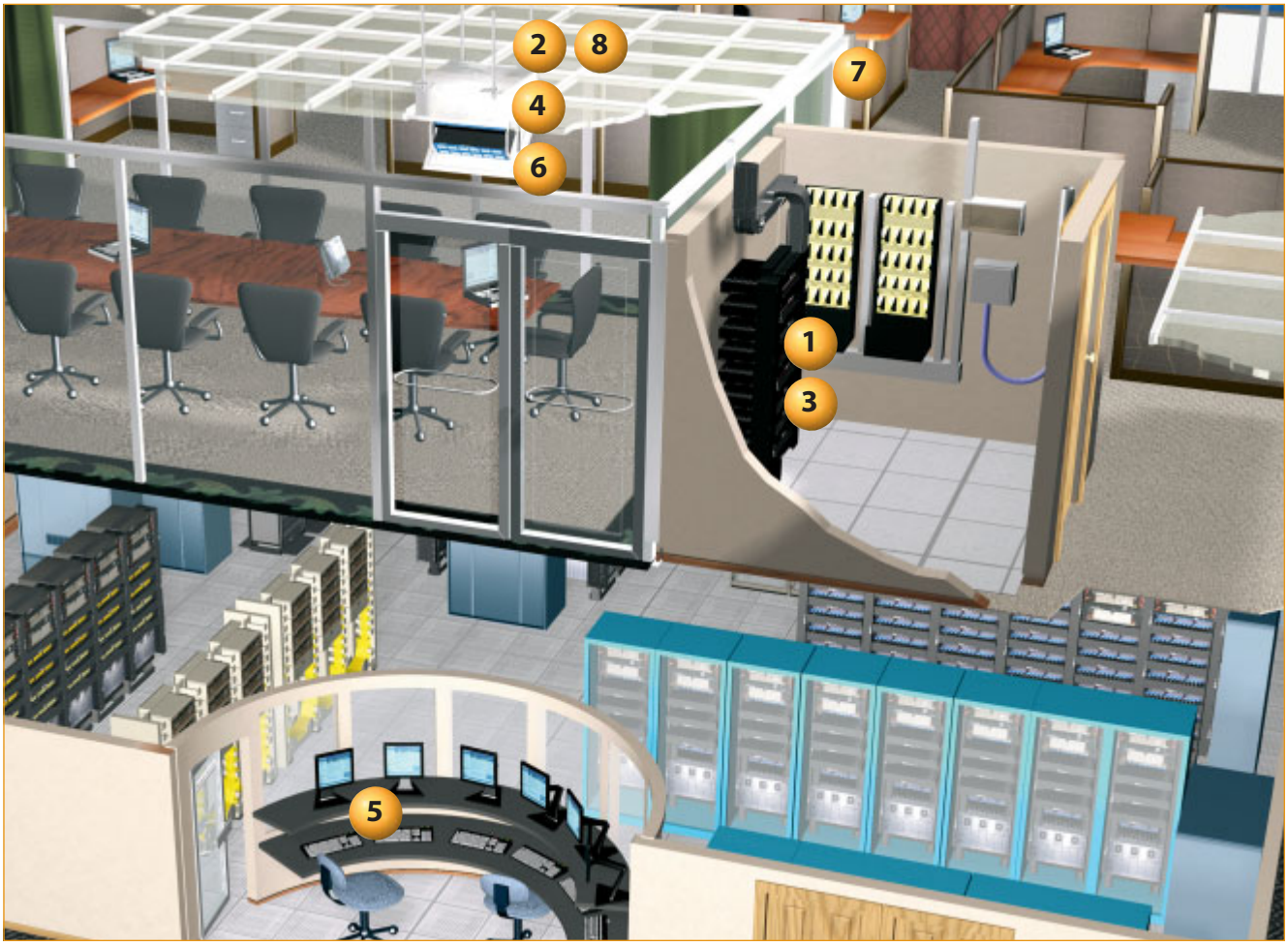




- **Space-saving designs allow for deployment in space-constrained locations**
- **Enable network modularity and scalability to grow a network as needed**
- **Provide redundant powering to reduce risk and diminish downtime**
- **Deliver low heat dissipation to improve power and cooling costs**
- **Provide visibility of all powered ports and allows multiple site management with a single graphical user interface**

PANDUIT® DPoE™ Power over Ethernet Systems utilize *DPoE™* Patch Panels in various port and data capability designs and *DPoE™* Compact 8 Midspan with 2X power (up to 32 watts) for increased capabilities. The *DPoE™* Power System provides high efficiency power supplies that can be hot-swapped for field upgrades or for replacement without taking the entire system down. The *DPoE™* Element Manager Software automatically locates and provides visibility of all powered ports across the network and allows multiple site management with a single graphical user interface. As a result, *PANDUIT® DPoE™* Power over Ethernet Systems take an innovative approach toward providing scalable and ample power injection for maximum reliability and lower total cost of ownership.

Power over Ethernet Systems Roadmap



1 *DPoE*™ Power Patch Panel (page D.3)



2 *DPoE*™ Power Midspan (page D.4)



3 *DPoE*™ Power System (page D.5)



4 *DPoE*™ Power Midspan Accessories (page D.4)



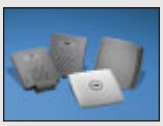
5 *DPoE*™ Element Manager



6 *DPoE*™ Power Supply (page D.5)



7 Distributed Access Point (page F.3)



8 *PANZONE*® In-Ceiling Enclosures (page E.3)



DPoE™ Power Patch Panel

- Deliver reliable, cost-effective Power over Ethernet for permanent installations
- Combine patching and power in a single device, occupying only one rack space
- Support 15.4 watts to every port
- Fully compliant with IEEE 802.3af standards
- Eliminate power budget load balancing
- Offer RJ45 terminations with LEDs on front of panels to indicate port powering or port status and 110 punchdown terminations on rear of panel for networking management connections
- Dissipate significantly less heat than comparable network equipment
- Require 48VDC power supply



DPOE24UIXG

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
DPOE24U1XG	24-port UTP 1 GbE 10/100/1000 patch panel supporting IEEE 802.3af-2003 and legacy PoE power protocols. Includes Element Manager software CD, rack mount screws, grounding strap and lug.	1	1

^One rack space = 1.75" (44.45mm).
Strain relief bars for mounting can be found on page B.55.
Power supply and/or power system sold separately.

Component Labels for *DPoE*™ Power Patch Panel



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
Patch Panel on Page D.3	UILJ6	—	UILS8BW	UILS8BW

For complete *ULTIMATE ID*® Labeling Solutions and product information, reference charts on pages O.8 and O.15.

DPoE™ Power Midspan

- Delivers reliable, cost-effective Power over Ethernet to new or existing networks
- Supports up to 32 watts (2X Power) to every port
- Fully compliant with IEEE 802.3af standards
- Compact, modular design allows up to three units to fit horizontally across one rack space
- Dissipates significantly less heat than comparable network equipment
- Scalable to grow network as needed
- Requires 48VDC power supply

ULTIMATE ID



DPOE8S2XG





DPOE8KIT



DPOEWM8B



DPOEPL8BU



DPOESHELF

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
DPOE8S2XG	8-port STP 10/100/1000 midspan supporting IEEE 802.3af-2003 and legacy PoE protocols. Option for table top mounting, wall bracket, or 1 RU shelf. Includes Element Manager software CD.	1	1
DPOE8KIT	Compact 8 midspan kit includes individual unit, 120 watt power supply, and 15 A conductor power cord.	1	1
DPOEWM8B	Wall mount bracket for DPOE8S2XG.	1	1
DPOEPL8BU	8-port passive patch panel module.	1	1
DPOESHELF	1 RU shelf for DPOE8S2XG.	1	1

^One rack space = 1.75" (44.45mm).
Power supply and/or power system sold separately.

Component Labels for *DPoE*™ Power Midpsan

Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Panel Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
DPOE8S2XG	**UILJ4**	—	**UILS8BW**	**UILS8BW**
DPOEPL8BU	**UILJ4**	—	**UILS8BW**	**UILS8BW**

For complete *ULTIMATE ID*® Labeling Solutions and product information, reference charts on pages O.8 and O.15.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

DPoE™ Power Supply

- Provides up to 120 watts of regulated power
- Offers flexible placement inside of rack
- Removes AC to DC power conversion heat from power patch panels due to isolation
- LED indicates when power is being supplied to the panel



Part Number	Part Description	Std. Pkg. Qty.
DPOEPWRB120Y	120 watt power supply. Suitable for single unit power installations with low power needs or a mixture of active and passive devices.	1

Power supply requires proper A.C. country specific power cord (CORD-A for Australia, CORD-E for Europe, CORD-S15 for North America, CORD-J15 for Japan or CORD-U for United Kingdom) must be ordered separately.

DPoE™ Power System

- Offers 48 volt DC power that is scalable from 500 watts to 3,750 watts
- Utilizes high efficiency power supplies that can be hot swapped for upgrades or replacement without taking the entire system down
- Provides consistent powering across a wide range of devices and application needs
- Offers a low profile, one rack space design
- Emits 35% less heat compared to other power supply systems
- Increases reliability with problem fault isolation



DPOEPWRCU



DPOEPWRR500 / DPOEPWRR1250

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
DPOEPWRCU	Power system chassis. Utilized for supplying power to single and multiple power patch panels when equipped with the appropriate *DPoE*™ Power Rectifiers.	1	1
DPOEPWRR500	500 watt power rectifier supplies power for multiple power patch panels. A combination of three rectifiers will support four to seven panels. Used with DPOEPWRCU.	—	1
DPOEPWRR1250	1250 watt power rectifier supplies power for multiple power patch panels. A combination of three rectifiers will support up to fourteen panels. Used with DPOEPWRCU.	—	1

^One rack space = 1.75" (44.45mm).

Power system chassis requires proper A.C. country specific power cord (CORD-A for Australia, CORD-E for Europe, CORD-S15 for United States, CORD-J15 for Japan or CORD-U for United Kingdom) must be ordered separately.

A. System Overview
B. Copper Systems
C. Fiber Optic Systems
D. Power over Ethernet
E. Zone Cabling
F. Wireless
G. Outlets
H. Media Distribution
I. Physical Infrastructure Management
J. Overhead & Underfloor Routing
K. Surface Raceway
L. Cabinets, Racks & Cable Management
M. Grounding & Bonding
N. Industrial
O. Labeling & Identification
P. Cable Management Accessories
Q. Index

NOTES

PANZONE® ZONE CABLING SYSTEMS

PANDUIT provides a complete line of zone cabling products for open office architecture applications, telecommunication enclosures, data centers, wireless deployments and network integration of a Connected Building Solution. Each zone cabling product serves as a main distribution point for a particular zone increasing network flexibility, manageability, accessibility and efficiency. Utilizing a distributed network and a zone cabling topology for your physical infrastructure can solve telecommunication room congestion. In addition, centralized fiber backbone cables can be integrated into the solution in order to extend the reach of your network beyond copper limitations.





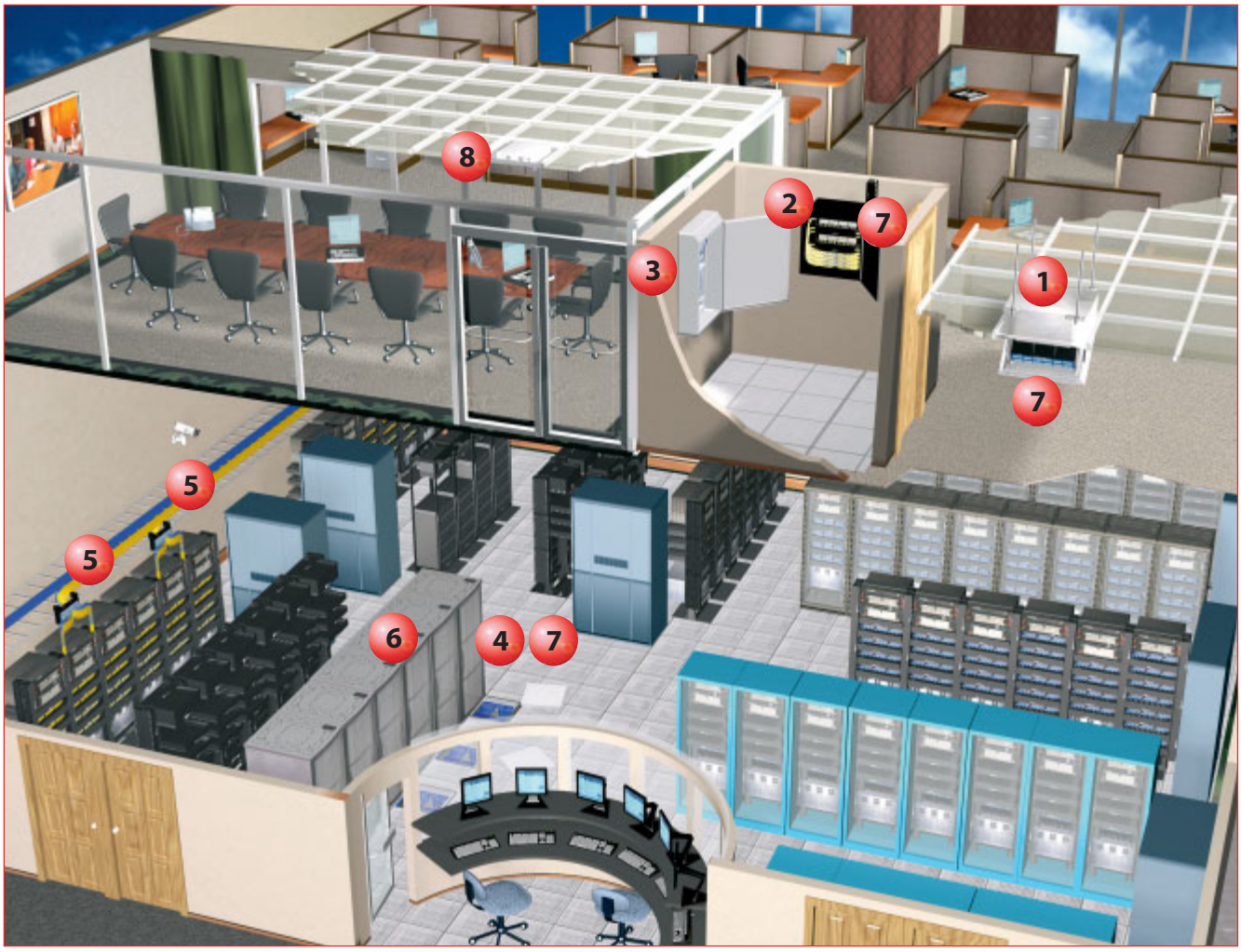



- **Consolidation points, MuTOA, zone distribution areas and telecommunication enclosures can be used to create a zone cabling system that is TIA/EIA-568-B, 569-B, and 942 compliant**
- **Provide accessibility and flexibility to reconfigure offices to meet frequently changing organizational requirements**
- **Provide the ability to make moves, adds, and changes quickly and easily**
- **Reduce network downtime when changes are required**
- **Can solve telecommunication room congestion**
- **Provide a low cost alternative for installations that need to be upgraded or reconfigured**
- **Provide a complete end-to-end network solution that integrates the *PANDUIT* wired structured cabling with the Cisco* wireless network equipment**

PANDUIT zone cabling products are completely modular, accepting all *MINI-COM*® Modules for STP and UTP, fiber optic, and audio/video applications. Zone cabling products accommodate multimedia solutions and can be used in floor, ceiling, and wall mount applications while providing a complete end-to-end network solution. With a zone cabling topology in place, IT managers provide themselves with a scalable physical network infrastructure that meets their needs today as well as the flexibility to deploy the technology of tomorrow.

*Cisco is a registered trademark of Cisco Technology, Inc.

Zone Cabling Systems Roadmap



1 *PANZONE®* In-Ceiling Enclosures (page E.3)



2 *PANZONE®* Wall Mount Cabinet (page E.4)



3 *PANZONE®* Building Automation Systems Enclosure (page E.5)



4 *PANZONE®* Raised Floor Enclosure (page E.6)



5 *PANZONE®* Overhead Distribution Racks (page E.8)



6 *NET-ACCESS®* Server Cabinet (page L.9)



7 *PANZONE®* Cable Assemblies (page E.10)





8 *PANZONE®* Wireless Access Point Enclosures (page F.4 – F.5)



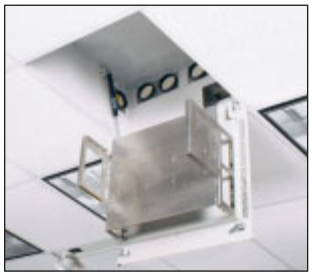


Order number of pieces required, in multiples of Standard Package Quantity.

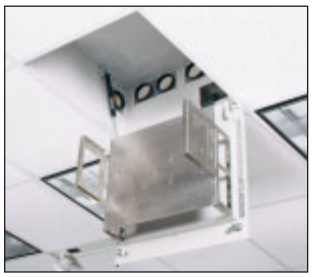
Prime items appear in **BOLD**.

PanZone® In-Ceiling Enclosures

- Designed to accept up to 2 RU of active electronics as deep as 17.5" and up to 6 RU of standard 19" passive connectivity (PZICEA only)
- Designed to accept up to 8 RU standard 19" passive connectivity (PZICE only)
- Thermal management design optimizes air flow for improved heat dissipation; ideal for high heat load PoE enabled switch applications
- Mount in 2' x 2', 2' x 4', and 2' x 6' drop ceilings
- 50 pound door weight capacity
- Include door plate, equipment mounting bracket, integrated horizontal cable slack manager
- AC power ready – receptacle not included (PZICEA only)
- Includes low decibel 60 CFM fan (PZICEA only)



PZICEA



PZICE



PZICFK-E

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
***PanZone*® In-Ceiling Enclosures**			
PZICEA	Fully assembled in-ceiling active enclosure. Accepts up to 2 RU of active network equipment and up to 6 RU of passive product. Includes mounting brackets, integrated horizontal slack manager, AC power provisions, fan assembly, air dam and electrical junction box. External dimensions: 13.50"H x 25.50"W x 27.50"D (342.9mm x 647.7mm x 698.5mm). Internal dimensions: 11.49"H x 22.31"W x 22.46"D (291.8mm x 566.7mm x 570.5mm).	5	1
PZICE	Fully assembled in-ceiling enclosure. Accepts up to 8 RU of standard 19" patch panels. Includes mounting brackets and integrated horizontal slack manager. External dimensions: 13.50"H x 25.50"W x 27.50"D (342.9mm x 647.7mm x 698.5mm). Internal dimensions: 11.49"H x 22.31"W x 22.46"D (291.8mm x 566.7mm x 570.5mm).	—	1
***PanZone*® Accessories**			
PZICFK-E	In-ceiling enclosure fan kit power conversion for european regions. Converts fan within in-ceiling active enclosure (PZICEA) to accept 220 VAC/50 Hz power. Includes fan assembly with Shuko plug, air dam, and electrical junction box.	—	1
PZICFRK	Filter replacement kit, includes five pairs of air inlet filters.	—	1
***StructuredGround*™ Grounding Kit**			
PZICGK	Grounding and bonding kit includes all components to properly ground enclosure and two network switches.	—	1

^One rack space = 1.75" (44.45mm).

PANZONE® Wall Mount Cabinets

- Hold 12 RU of active and passive network equipment plus two additional RU for power strips and small electronic devices (modems, routers, etc.)
- Structurally engineered to swing freely even under maximum load capacity
- Thermal management design (vents, perforated doors, and optional fan) optimizes air flow for improved heat dissipation; ideal for high heat load PoE enabled switch applications
- Working load rating of 250 lbs.
- Adjustable rails mount at 1" increments to accommodate various depths of network equipment including PoE switches
- Individual rack spaces are identified for ease of equipment mounting



PZC12S



PZC12P



PZC12W



PZCHSM2



PZBR4



PZCGK

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
***PANZONE*® Wall Mount Cabinets**			
PZC12S	Wall mount cabinet with a solid front door; black. Dimensions: 25.81"H x 25.00"W x 22.85"D (655.6mm x 635.0mm x 580.4mm).	12	1
PZC12P	Wall mount cabinet with perforated front door; black. Dimensions: 25.81"H x 25.00"W x 22.85"D (655.6mm x 635.0mm x 580.4mm).	12	1
PZC12W	Wall mount cabinet with windowed front door; black. Dimensions: 25.81"H x 25.00"W x 22.85"D (655.6mm x 635.0mm x 580.4mm).	12	1
***PANZONE*® Cable Management Options**			
PZCHSM2	Wall mount cabinet horizontal slack manager; black. Dimensions: 3.50"H x 19.00"W x 13.00"D (88.9mm x 482.6mm x 330.2mm).	2	2
PZBR3	Cable bend radius post, 3" length.	—	—
PZBR4	Cable bend radius post, 4" length.	—	—
***PANZONE*® Accessories**			
PZCFK	Wall mount cabinet fan kit; kit includes one 115 VAC fan rated at 112 CFM.	—	1
PZCFK-E	Wall mount cabinet fan kit – european version, 220 VAC with Shuko plug.	—	1
PZCFR	Wall mount filter replacement kit.	—	1
***STRUCTUREDGROUND*™ Grounding Kit**			
PZCGK	Grounding and bonding kit; includes all components to properly ground cabinet.	—	1

^One rack space = 1.75" (44.45mm).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

PANZONE® Active Wall Mount Enclosure

- Holds up to 3 RU of passive product and up to 3 RU of active equipment
- Provides optimal cable management by allowing adequate space to route and manage patch cords
- Patch panel bracket rotates 90° and accepts 19" rack mountable product allowing easy installation
- Provides multiple cable entry/exit points via knockouts
- Design accepts all standard 19" patch panels
- Door can be assembled to hinge on either the right or left side providing flexibility and easy access for any mounting location
- Front cover has standard padlock feature; optional keyed locks available
- Vented design and optional fan provides thermal management for switches and power supplies



PZAEWM3

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
PANZONE® Active Wall Mount Enclosure				
PZAEWM3	Active wall mount enclosure includes mounting template for quick installation. Dimensions: 38.50"H x 27.92"W x 8.61"D (977.9mm x 709.2mm x 218.7mm).	6	1	—
PANZONE® Air Exchange Fan				
PZAEFAN	Wall mount enclosure fan kit. Kit includes one 115 VAC fan rated at 112 CFM. Enclosure accepts up to two fan kits.	—	1	—
PZAEFK-E	Wall mount enclosure fan kit – european version, 220 VAC with Shuko plug. Fan rated at 112 CFM. Enclosure accepts up to two fan kits.	—	1	—
PANZONE® Accessories				
PZAELOCK	Optional keyed lock set; includes two locks with keys.	—	1	10
STRUCTUREDGROUND™ Grounding Kit				
PZAEGK	One tin-plated copper bracket; 3.92"L x .56"W x .79"H (99.6mm x 14.2mm x 20.1mm); provided with four #12-24 screws, one each #10-32 and #10-24 hex nut, #10 split lock washer, grounding washer and ESD protection sticker.	—	1	—

All product color is gray.
^One rack space = 1.75" (44.45mm).

PANZONE® Building Automation Systems Enclosure

- Integrates data communications and Building Automation Systems (BAS) by converging the infrastructure into a single ethernet network
- Minimizes installation costs by consolidating BAS equipment into a single enclosure
- Eliminates redundant cable runs
- Provides optimal cable routing and management of patch cords and electrical components
- Vented design and optional fan provides thermal management for network equipment and power supplies



PZBASE3

Part Number	Part Description	No. of Rack Spaces^	Color	Std. Pkg. Qty.
PZBASE3	Building automation systems enclosure. Includes perforated panel 32.00"H x 22.50"W (812.8mm x 571.5mm) for mounting BAS devices. Dimensions: 48.50"H x 35.00"W x 8.60"D (1231.9mm x 889.0mm x 218.4mm).	3	White	1
PZBASELK	Optional keyed lock set; includes two locks with keys.	—	—	1

^One rack space = 1.75" (44.45mm).
To bond building automation system enclosure sections, see the STRUCTUREDGROUND™ Enclosure Grounding kit on page M.23.

NEW! UL LISTED

PANZONE® Raised Floor Enclosures

- Work with standard 24" x 24" (600mm x 600mm) raised floor tiles
- Single floor tile drop-in design speeds installation
- Mounting bracket allows for fast installation to raised floor pedestal with the use of a single tool and a single captured fastener
- Include COOL BOOT™ Raised Floor Air Sealing Grommet for quick moves, adds, and changes
- Accept all standard 19" patch panels
- Accept field terminated or pre-terminated connectivity solutions
- Installation of the enclosure forms a mechanical electrical bond to the raised floor pedestal without the need for any extra components



PZRFE4



PZRFE8



PZRFC

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
PZRFE4	Fully assembled raised floor enclosure requires 6" minimum raised floor depth; black finish. Accepts 4 RU of standard patch panels or 2 RU of QUICKNET™ Pre-Terminated Assemblies or Cassettes. Dimensions: 22.62"H x 22.62"W x 5.0"D (575mm x 575mm x 127mm).	4	1
PZRFE8	Fully assembled raised floor enclosure requires 9.5" minimum raised floor depth; black finish. Accepts 8 RU of standard patch panels or 4 RU of QUICKNET™ Pre-Terminated Assemblies or Cassettes. Dimensions: 22.62"H x 22.62"W x 8.5"D (575mm x 575mm x 216mm).	8	1
PZRFE12	Fully assembled raised floor enclosure requires 13" minimum raised floor depth; black finish. Accepts 12 RU of standard patch panels or 6 RU of QUICKNET™ Pre-Terminated Assemblies or Cassettes. Dimensions: 22.6"H x 22.6"W x 12.0"D (575mm x 575mm x 305mm).	12	1
PZRFC	Lockable cover for PANZONE® Raised Floor Enclosures, includes two keys. Dimensions: 24.0"H x 24.0"W x .75"D (610mm x 610mm x 19.05mm).	—	1

^One rack space = 1.75" (44.45mm).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

PanZone® Underfloor Enclosures

- Ideal solutions for raised floor environments in data centers and telecommunication rooms
- UL 2043 approved for use in air-handling spaces
- Accept *Opticom*® Fiber Adapter Panels (FAPs) or *QuickNet*™ Pre-Terminated MTP* Cassettes
- Include underfloor brackets to mount enclosure to cable tray



PZCPE4F

Part Number	Part Description	No. of Adapter Panels	Std. Pkg. Qty.
PZCPE2F	Consolidation point enclosure accepts up to two fiber adapter panels (FAPs) or two *QuickNet*™ Pre-Terminated MTP* Cassettes. Includes hardware to mount enclosure to wire cable tray. Dimensions: 13.91"H x 12.19"W x 2.00"D (353.2mm x 309.6mm x 50.8mm).	2	1
PZCPE4F	Consolidation point enclosure accepts up to four fiber adapter panels (FAPs) or four *QuickNet*™ Pre-Terminated MTP* Cassettes. Includes hardware to mount enclosure to wire cable tray. Dimensions: 13.91"H x 12.19"W x 3.54"D (353.2mm x 309.6mm x 89.8mm).	4	1
PZCPE8F	Consolidation point enclosure accepts up to eight fiber adapter panels (FAPs) or eight *QuickNet*™ Pre-Terminated MTP* Cassettes. Includes hardware to mount enclosure to wire cable tray. Dimensions: 13.91"H x 21.00"W x 3.54"D (525.5mm x 309.6mm x 89.8mm).	8	1

All product color is black.
*MTP is a registered trademark of US Conec Ltd.

Consolidation Point Boxes

LISTED

- Suitable for wall mount and underfloor applications
- UL 2043 approved for use in air-handling spaces for copper applications
- Accept *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Supplied with cable management accessories
- Optional fiber conversion kit available



CUFMB24BL



CUFB48BL

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CUFMB24BL	24-port aluminum underfloor consolidation point box includes pre-printed numbered labels with writable surface on back when pre-numbered labels are not applicable. Dimensions: 1.69"H x 10.85" W x 10.67"L (42.9mm x 275.6mm x 271.0mm).	1	—
CUFB48BL	48-port underfloor consolidation point box made of 16 gauge rugged steel for long term durability. Dimensions: 1.63"H x 10.00" W x 14.88"L (41.4mm x 254.0mm x 378.0mm).	1	—
CUFF-KIT	Optional fiber conversion kit to be used with CUFB48BL and CUFMB24BL. Kit includes: four *PANDUIT*® *Pan-Ty*® Cable Ties, four wire saddles, two adhesive fiber spools, two support brackets to hold fiber cable, one grounding lug, one laser warning label, one fiber warning label and two rubber grommets.	1	10

All product color is black.

PANZONE® Overhead Distribution Racks

- Ideal solution for adding more rack spaces above racks or cabinets in data centers or telecommunication rooms
- Universal mounting bracket can be mounted to most industry ladder racks or cable trays or suspended by threaded rod from ceiling
- Multiple mounting configurations
- 40/60/80 lbs. load rating
- Optional cable management solutions (PZBR4 and CMVDR2)



PZLRB6

Part Number	Part Description	Std. Pkg. Qty.
PZLRB2	2 RU ladder rack bracket. Dimensions: 8.75"H x 20.26"W x 3.26"D (222.3mm x 514.6mm x 82.8mm).	1
PZLRB4	4 RU ladder rack bracket. Dimensions: 12.25"H x 20.26"W x 3.26"D (311.2mm x 514.6mm x 82.8mm).	1
PZLRB6	6 RU ladder rack bracket. Dimensions: 15.75"H x 20.26"W x 3.26"D (400.1mm x 514.6mm x 82.8mm).	1

One rack space = 1.75" (44.45mm).
All product color is black.

Punchdown Consolidation Point Enclosures

- Include *TAK-TY*® Hook & Loop Cable Ties, grommets, and a choice of punchdown bases
- UL 2043 approved for use in air-handling spaces
- Follow TIA/EIA-568-B standard
- Mount to wall above and below ceiling



WMCPEPPBL

Part Number	Part Description	Std. Pkg. Qty.
WMCPESGBL	Fully assembled aluminum enclosure, which includes 24-port/4-pair standard density *GP6™ PLUS* Category 6 base and *TAK-TY*® Hook & Loop Cable Ties. Dimensions: 3.44"H x 9.47"W x 13.22"L (87.4mm x 240.5mm x 335.8mm).	1
WMCPEPPBL	Fully assembled aluminum enclosure, which includes 110-pair *PAN-PUNCH*® Base and *TAK-TY*® Hook & Loop Cable Ties. Dimensions: 3.44"H x 9.47"W x 13.22"L (87.4mm x 240.5mm x 335.8mm).	1
WMCPEBL	Aluminum enclosure with *TAK-TY*® Hook & Loop Cable Ties. Dimensions: 3.44"H x 9.47"W x 13.22"L (87.4mm x 240.5mm x 335.8mm).	1

All product color is black.
Image reflects standard density punchdown base.

PANZONE® Wall Mount Consolidation Point Enclosures

- Can be directly mounted to a wall or recessed into a wall
- Include grommet edging, labels, and *TAK-TY*® Hook & Loop Cable Ties
- Accommodate up to four 100-pair punchdown bases or optional patch panel bracket (PZBPPB) can be used to accommodate up to 2 RU of standard 19" patch panels
- Conduit knockouts of 1 3/4" – 2" are available on top and bottom; conduit knockouts of 1 1/2" are available on the sides
- Option of flat cover or hinged lockable door (each sold separately)


PZB4


PZB4-HC


PZB4-FC


PZBPPB

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
***PANZONE*® Wall Mount Consolidation Point Enclosure**			
PZB4	Enclosure, door not included; select PZB4-HC or PZB4FC. Dimensions: 25.00"H x 14.50"W x 4.65"D (635.0mm x 368.3mm x 118.1mm).	1	—
PZB4-HC	Hinged door to be used with *PANZONE*® Enclosure (PZB4) when recessed in a wall. Reversible door can hinge from either side and includes lock with tab release.	1	—
PZB4-FC	Flat cover to be used with *PANZONE*® Enclosure (PZB4) when mounting to wall.	1	—
***PANZONE*® Enclosure Bracket**			
PZBPPB	Patch panel bracket accommodates up to 2 RU of standard 19" patch panels. Includes one pair of brackets.	1	10

One rack space = 1.75" (44.45mm)
All product color is off white.

PANZONE® Cable Assemblies

LISTED

- PANZONE® Category 6A and Category 6 Cable Assemblies for use in zone cabling applications
- Available in plug to jack module or plug to plug configurations
- Available in plenum or riser cable
- T568B wired



Plug to Plug Cable Assembly



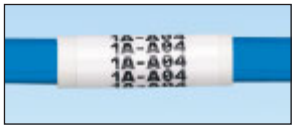
Jack to Plug Cable Assembly

Part Number	Part Description	Length (Ft.)‡	Cable Type	Cable Color	Std. Pkg. Qty.	Std. Ctn. Qty.
Plug to Plug Cable Assemblies						
Category 6A Shielded						
SAPPBU25	Category 6A FTP solid plenum cable with *TX6™ PLUS* Modular Plugs on each end.	25	Plenum	Blue	1	10
SAPRBU25	Category 6A FTP solid riser cable with *TX6™ PLUS* Modular Plugs on each end.	25	Riser	Blue	1	10
Category 6A UTP						
UAPPBU25	Category 6A UTP solid plenum cable with *TX6™ PLUS* Modular Plugs on each end.	25	Plenum	Blue	1	10
UAPRBU25	Category 6A UTP solid riser cable with *TX6™ PLUS* Modular Plugs on each end.	25	Riser	Blue	1	10
Category 6 UTP						
UPPBU25Y	Category 6 UTP solid plenum cable with *TX6™ PLUS* Modular Plugs on each end.	25	Plenum	Blue	1	10
UPBU25Y	Category 6 UTP solid riser cable with *TX6™ PLUS* Modular Plugs on each end.	25	Riser	Blue	1	10
Jack to Plug Cable Assemblies						
Category 6A Shielded						
SAJPBU25BL	Category 6A FTP solid plenum cable with a *TX6™ PLUS* Modular Plug on one end and a black *MINI-COM® TX6™ PLUS* Jack Module on the other.	25	Plenum	Blue	1	10
SAJRBU25BL	Category 6A FTP solid riser cable with a *TX6™ PLUS* Modular Plug on one end and a black *MINI-COM® TX6™ PLUS* Jack Module on the other.	25	Riser	Blue	1	10
Category 6A UTP						
UAJPBU25BL	Category 6A UTP solid plenum cable with a *TX6™ PLUS* Modular Plug on one end and a black *MINI-COM® TX6™ PLUS* Jack Module on the other.	25	Plenum	Blue	1	10
UAJRBU25BL	Category 6A UTP solid riser cable with a *TX6™ PLUS* Modular Plug on one end and a black *MINI-COM® TX6™ PLUS* Jack Module on the other.	25	Riser	Blue	1	10
Category 6 UTP						
UJPBU25BLY	Category 6 UTP solid plenum cable with a *TX6™ PLUS* Modular Plug on one end and a black *MINI-COM® TX6™ PLUS* Jack Module on the other.	25	Plenum	Blue	1	10
UJBU25BLY	Category 6 UTP solid riser cable with a *TX6™ PLUS* Modular Plug on one end and a black *MINI-COM® TX6™ PLUS* Jack Module on the other.	25	Riser	Blue	1	10

TX6™ 10GIG™ Category 6A shielded patch cords can be used as plug to plug cable assemblies.
‡For lengths 10 – 100 feet (five foot increments) and 110, 120, 130, 140, 150 feet change the length designation in the part number to the desired length. For example, the part number for a 100 foot, plug to plug, Category 6A, shielded, riser cable assembly is SAPRBU100.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Cable Labels for *PANZONE*® Cable Assemblies



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Cable Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
All *PAN-ZONE*® Cable Assemblies	S100X150YAJ	S100X150VATY	S100X150VAC	T100X000CBC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

A. System Overview
B. Copper Systems
C. Fiber Optic Systems
D. Power over Ethernet
E. Zone Cabling
F. Wireless
G. Outlets
H. Media Distribution
I. Physical Infrastructure Management
J. Overhead & Underfloor Routing
K. Surface Raceway
L. Cabinets, Racks & Cable Management
M. Grounding & Bonding
N. Industrial
O. Labeling & Identification
P. Cable Management Accessories
Q. Index

NOTES

Wireless Solutions

PANDUIT and Cisco Systems have collaborated to develop a complete solution that cost-effectively addresses wireless deployment, security management, and control issues facing enterprises by enabling application interoperability between wired and wireless networks. *PANDUIT* offers a wide range of Cisco enterprise-call autonomous (distributed) and light-weight (centralized) access points and wireless bridges designed to fit the needs of a variety of applications. *PANDUIT* physical infrastructure systems complement the Cisco Unified Wireless Network to provide a reliable platform that guards against threats to the wireless local area network (WLAN) and provides protection for critical network elements.

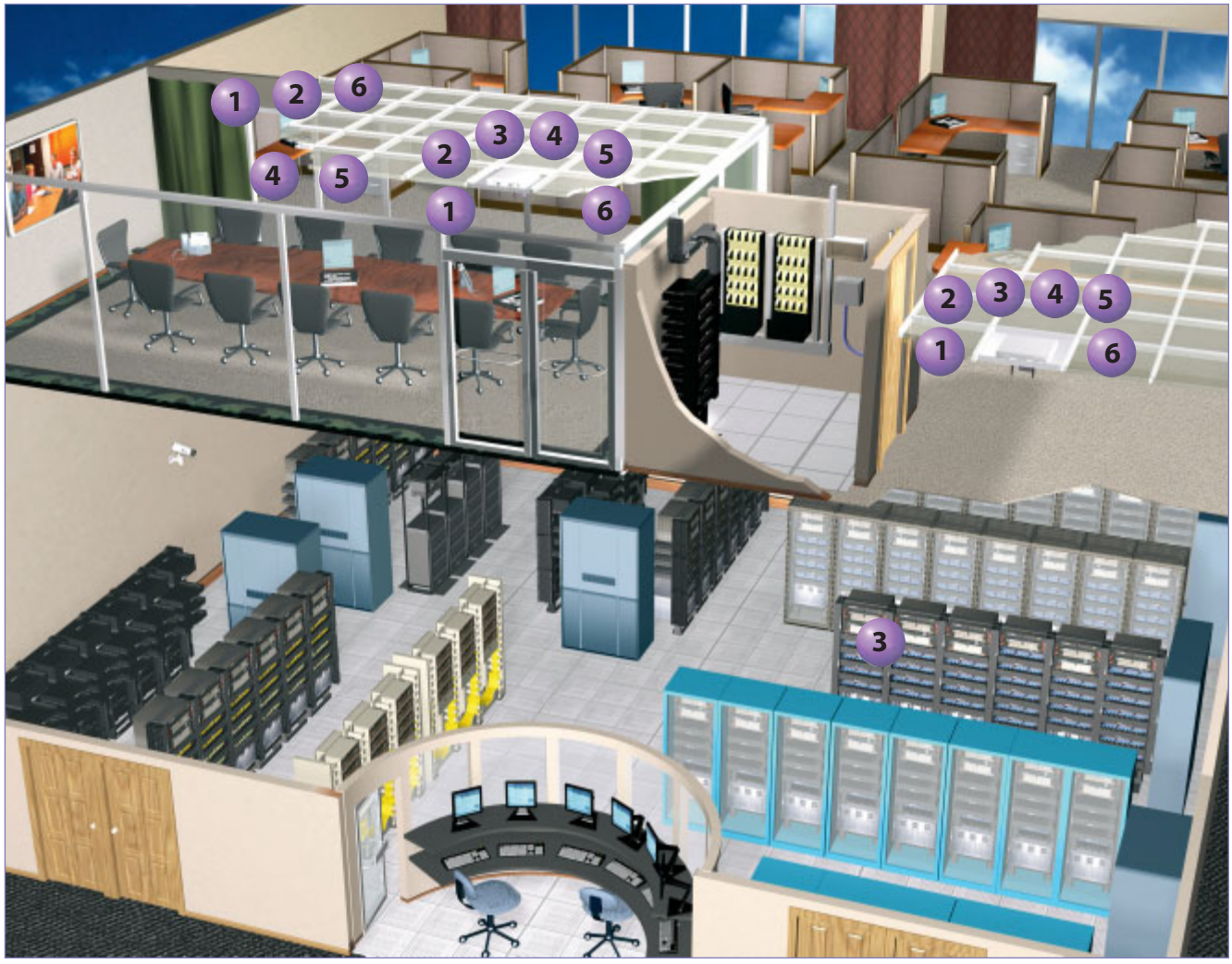


- **Ensure full wired and wireless compatibility and interoperability**
- **Provide integrated solution for lower total cost of ownership**
- **Cost-effectively address WLAN security, deployment, and management issues**
- **Offer unequalled choice for WLAN deployment in distributed or centralized architectures**
- **Fully standards compliant IEEE 802.11 a/b/g and n (draft) solutions; compliant to IEEE 802.11i authentication and encryption standards**

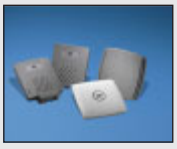
The wireless solution features *PANDUIT*® *PanZone*® Wireless Access Point Enclosures and Cisco Aironet^ access points, centralized WLAN controllers, antennas and accessories. The *PanZone*® Wireless Access Point Enclosures accommodate a full range of Cisco access points including selected Cisco 1130, 1200, 1230, 1240 and 1250 series access points capable of configuration in distributed or centralized architectures. These enclosures provide an additional level of security for your WLAN by protecting the access points from tampering, vandalism, theft and harsh environments. Designed to support a secure and wireless environment, the *PANDUIT* cabling infrastructure also includes copper and fiber cabling system and Power over Ethernet patch panels.

^Cisco Systems and Aironet are registered trademarks of Cisco Technology, Inc.

Wireless Solution Roadmap



1 **Distributed Access Points (page F.3)**



2 **Centralized Access Points (page F.3)**



3 **Wireless LAN Controllers (page F.7)**



4 **External Antennas (page F.7)**



5 **Wireless Accessories (page F.8)**



6 **Indoor Wireless Access Point Enclosures (Shown) (page F.4 – F.5)**



Outdoor/Industrial Wireless Enclosures (page F.6)



Distributed Access Points

- Extend network coverage, even to the most challenging environments
- Provide secure network access
- Standards compliant access technology, IEEE 802.11 a/b/g/n-draft
- Ensure robust network performance and interoperability with the wired local area network (LAN)
- Optional SMARTnet^ warranty available



Part Number	Part Description	Std. Pkg. Qty.
P-AP1252AG-A-K9	Cisco Aironet^ 1250 Series 802.11a/g/n-draft 2.0 2.4/5 GHz Modular Autonomous AP, 6 RP-TNC connectors, FCC configuration.	1
P-AP1252G-A-K9	Cisco Aironet^ 1250 Series 802.11 g/n-draft 2.0 2.4 GHz Modular Autonomous AP, 3 RP-TNC connectors, FCC configuration.	1
P-AP1242AG-A-K9	Cisco Aironet^ 1240 Series 802.11a/g non-modular IOS Access Point, RP-TNC connectors for required External Antennas, FCC configuration. For use with *PANDUIT* enclosure PZWIFIED.	1
P-AP1232AG-A-K9	Cisco Aironet^ 1230 Series 802.11a/g Modular IOS Access Point, RP-TNC connectors for required External Antennas, FCC configuration. For use with *PANDUIT* enclosure PZWIFIED.	1
P-AP1231G-A-K9	Cisco Aironet^ 1200 Series 802.11g Modular IOS Access Point, RP-TNC connectors for required External Antenna. Available Card BUS slot, FCC configuration. For use with *PANDUIT* enclosure PZWIFIE.	1
P-AP1131AG-A-K9	Cisco Aironet^ 1130 Series 802.11a/g Access Point with Internal Antennas, FCC configuration. For use with *PANDUIT* enclosure PZWIFIEW.	1
P-BR1310G-A-K9	Cisco Aironet^ 1300 Series 802.11g Outdoor Access Point/Bridge with IOS Software and Internal Antennas, FCC configuration.	1
P-BR1310G-A-K9R	Cisco Aironet^ 1300 Series 802.11g Outdoor Access Point/Bridge with IOS Software and RP-TNC connectors for required External Antennas, FCC configuration.	1

Available as part of an integrated wired and wireless solution.
^Cisco, SMARTnet, and Aironet are registered trademarks of Cisco Technology, Inc.
Contact Service and Technical Support if radio upgrades are considered.

Centralized Access Points (LWAPP-Enabled)

- Enable centralized WLAN deployments, IEEE 802.11 a/b/g/n-draft
- Offer compatibility and security with the wired network
- Used with Cisco^ Centralized Series 2000 and 4400 controllers
- Provide a scalable and integrated WLAN solution
- Easy to install and manage
- Optional SMARTnet^ warranty available



Part Number	Part Description	Std. Pkg. Qty.
P-LP1252AG-A-K9	Cisco Aironet^ 1250 Series 802.11a/g/n-draft 2.0 2.4/5 GHz Modular Unified AP, 6 RP-TNC connectors, FCC configuration.	1
P-LP1252G-A-K9	Cisco Aironet^ 1250 Series 802.11g/n-draft 2.0 2.4 GHz Modular Unified AP, 3 RP-TNC connectors, FCC configuration.	1
P-LP1242AG-A-K9	Cisco Aironet^ 1240 Series 802.11a/g non-modular LWAPP Access Point, RP-TNC connectors. FCC configuration. For use with *PANDUIT* enclosure PZWIFIED.	1
P-LP1232AG-A-K9	Cisco Aironet^ 1230 Series 802.11a/g modular LWAPP Access Point, RP-TNC connectors, FCC configuration. For use with *PANDUIT* enclosure PZWIFIED.	1
P-LP1131AG-A-K9	Cisco Aironet^ 1130 Series 802.11a/g non-modular LWAPP Access Point, Internal Antennas, FCC configuration. For use with *PANDUIT* enclosure PZWIFIEW.	1

Available as part of an integrated wired and wireless solution.
^Cisco, SMARTnet, and Aironet are registered trademarks of Cisco Technology, Inc.

PANZONE® Wireless Access Point Enclosures

- Specifically designed for use with Cisco Aironet^ 1130, 1200, 1230, 1240 and 1250 Series Wireless Access Points
- Specifically designed for use with HP ProCurve 420*, Foundry IP200‡ and Enterasys^^, RBT-4102 Wireless Access Points
- Lockable enclosure protects against tampering, vandalism, and theft
- Knockouts allow multiple antenna configurations
- Connectivity accessory kit (included) provides two-position surface mount box, *MINI-COM*® *TX6*™ *PLUS* Jack Module, *TX6*™ *PLUS* Patch Cord and grounding cable
- Shielded connectivity accessory kit also available
- Optional ceiling bracket kit allows WAP to be mounted in-ceiling for design flexibility for optimum wireless coverage
- 2' x 2' ceiling bracket eliminates cutting the ceiling tile by replacing a standard 2' x 2' ceiling tile



PZWIFIEN



PZWIFIENA



PZWIFIED



PZWIFIE



PZWIFIEW

Part Number	Part Description	Color	Std. Pkg. Qty.
Wireless Enclosures Designed for Use with Cisco Aironet^ Series Wireless Access Points			
PZWIFIEN	*PANZONE*® Wireless Access Point Enclosure; accommodates Cisco Aironet^ 1250 Series Wireless Access Points. UL2043 rated. Dimensions: 13.75"H x 12.00"W x 4.75"D (349.8mm x 304.8mm x 120.6mm).	White	1
PZWIFIENA	*PANZONE*® Wireless Access Point Enclosure; compatible with all Cisco Aironet^ 1250 Series WAPs when used with Cisco Patch Antennas (AIR-ANT5140V-R and/or AIR-ANT2430V-R). UL2043 rated. Dimensions: 13.75"H x 12.00"W x 4.75"D (349.8mm x 304.8mm x 120.6mm).	White	1
PZWIFIED	*PANZONE*® Wireless Access Point Enclosure; accommodates Cisco Aironet^ 1230 and 1240 Series Wireless Access Points. UL2043 rated. Dimensions: 13.75"H x 12.00"W x 3.06"D (349.8mm x 304.8mm x 77.7mm).	White	1
PZWIFIEA	*PANZONE*® Wireless Access Point Enclosure; compatible with all Cisco Aironet^ 1200, 1230, and 1240 Series WAPs when used with Cisco Patch Antennas (AIR-ANT5145V-R and/or AIR-ANT5959). UL2043 rated. Dimensions: 13.75"H x 12.00"W x 3.06"D (349.8mm x 304.8mm x 77.7mm).	White	1
PZWIFIE	*PANZONE*® Wireless Access Point Enclosure; accommodates Cisco Aironet^ 1200 Series Wireless Access Points. UL2043 rated. Dimensions: 12.00"H x 12.00"W x 2.31"D (304.8mm x 304.8mm x 58.7mm).	White	1
PZWIFIEW	*PANZONE*® Wireless Access Point Enclosure with windowed front door; accommodates Cisco Aironet^ 1130 Series Wireless Access Points. Dimensions: 12.00"H x 12.00"W x 2.31"D (304.8mm x 304.8mm x 58.7mm).	White	1

^Cisco, SMARTnet, and Aironet are registered trademarks of Cisco Technology, Inc.
*ProCurve is a registered trademark of Hewlett-Packard Development Company, L.P.
‡Foundry is a registered trademark of Foundry Networks, Inc.
^^Enterasys is a registered trademark of Enterasys Networks, Inc.
For shielded versions of *PANZONE*® Wireless Access Point Enclosures, add suffix "S" to part number.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

PANZONE® Wireless Access Point Enclosures (continued)



PZWIFIEH



PZWIFIDCB

Part Number	Part Description	Color	Std. Pkg. Qty.
Wireless Enclosure Designed for HP, Foundry Networks‡, Enterasys Networks^^ and Aruba^^^ Wireless Access Points			
PZWIFIEH	*PANZONE®* Wireless Access Point Enclosure; accommodates HP ProCurve* 420, Foundry‡ IP200, and Enterasys^^ RBT-4102 Wireless Access Points. UL2043 rated. Dimensions: 13.75"H x 12.00"W x 3.06"D (349.8mm x 304.8mm x 77.7mm).	White	1
In-Ceiling Mounting Bracket Kits			
PZWIFICB	*PANZONE®* Wireless Enclosure In-Ceiling Mounting Bracket Kit for PZWIFIE and PZWIFIEW. Dimensions: 3.31"H x 13.62"W x .75"D (84.1mm x 345.9mm x 19.0mm).	White	1
PZWIFIDCB	*PANZONE®* Wireless Enclosure In-Ceiling Mounting Bracket Kit for PZWIFIEN, PZWIFIENA, PZWIFIED, PZWIFIEA and PZWIFIEH. Dimensions: 4.06"H x 13.73"W x .81"D (103.1mm x 348.7mm x 20.6mm).	White	1
PZW2X2CB	*PANZONE®* Wireless Enclosure 2x2 ft. In-Ceiling Mounting Bracket Kit for PZWIFIE and PZWIFIEW. Dimensions: 3.19"H x 23.75"W x 23.75"D (81.1mm x 603.3mm x 603.3mm).	White	1
PZW2X2DCB	*PANZONE®* Wireless Enclosure 2x2 ft. In-Ceiling Mounting Bracket Kit for PZWIFIEN, PZWIFIENA, PZWIFIED, PZWIFIEA, and PZWIFIEH. Dimensions: 3.94"H x 23.75"W x 23.75"D (100.1mm x 603.3mm x 603.3mm).	White	1

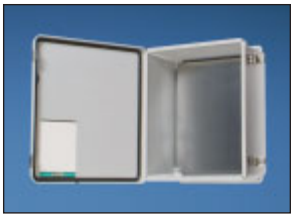
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*ProCurve is a registered trademark of Hewlett-Packard Development Company, L.P.
‡Foundry is a registered trademark of Foundry Networks, Inc.
^^Enterasys is a registered trademark of Enterasys Networks, Inc.
^^^Aruba is a registered trademark of Aruba Networks, Inc.
For shielded versions of *PANZONE®* Wireless Access Point Enclosures, add suffix “S” to part number.

PANZONE® NEMA 4X/IP66 Rated Wireless Access Point Enclosures

- NEMA 4X and IP66 rating protects against corrosion, windblown dust and rain, splashing water and hose-directed water
- Universal design accommodates the most popular Wireless Access Points including Cisco Aironet^ 1200, 1230, 1240, 1250 and 1300 Series
- Fiberglass construction and aluminum mounting plate allows quick and easy access point installation
- UL508A Listed and approved
- Include pre-configured mounting template
- Provisions for padlocks to protect against tampering and theft
- Optional NEMA 4X rated fittings available in various sizes
- Optional NEMA 4X drain and vent kit
- Connectivity accessory kit (included): two-position outlet box, *MINI-COM*® *TX6*™ *PLUS* Jack Module, *TX6*™ *PLUS* Patch Cord, silicone sealant and grounding cable
- Shielded connectivity accessory kit also available



PZNWE12



PZNWE14

Part Number	Part Description	Std. Pkg. Qty.
***PANZONE*® NEMA 4X/IP66 Rated Wireless Access Point Enclosures**		
PZNWE12	Wireless enclosure designed for Power over Ethernet applications. Includes UTP connectivity kit. External dimensions: 13.56"H x 13.47"W x 6.56"D (344.4mm x 342.1mm x 166.6mm). Internal dimensions: 11.70"H x 11.70"W x 6.29"D (297.2mm x 297.2mm x 159.8mm).	1
PZNWE12S	Wireless enclosure designed for Power over Ethernet applications. Includes shielded connectivity kit. External dimensions: 13.56"H x 13.47"W x 6.56"D (344.4mm x 342.1mm x 166.6mm). Internal dimensions: 11.70"H x 11.70"W x 6.29"D (297.2mm x 297.2mm x 159.8mm).	1
PZNWE14	Wireless enclosure designed for traditional AC power applications. Includes UTP connectivity kit. External dimensions: 15.50"H x 13.50"W x 6.25"D (393.7mm x 342.9mm x 158.8mm). Internal dimensions: 13.53"H x 11.55"W x 5.94"D (343.7mm x 293.4mm x 150.9mm).	1
PZNWE14S	Wireless enclosure designed for traditional AC power applications. Includes shielded connectivity kit. External dimensions: 15.50"H x 13.50"W x 6.25"D (393.7mm x 342.9mm x 158.8mm). Internal dimensions: 13.53"H x 11.55"W x 5.94"D (343.7mm x 293.4mm x 150.9mm).	1
NEMA 4X Rated Fittings and Accessories		
PZNF1	NEMA 4X rated compression fitting, ideal for cable diameters of .115" to .250" (2.82mm to 6.35mm).	1
PZNF2	NEMA 4X rated compression fitting, ideal for cable diameters of .230" to .395" (5.84mm to 10.03mm).	1
PZNF3	NEMA 4X rated compression fitting, ideal for cable diameters of .170" to .450" (4.32mm to 11.43).	1
PZNDVK	NEMA 4X drain and vent kit.	1

^Cisco and Aironet are registered trademarks of Cisco Systems, Inc.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Wireless LAN Controllers

- Used in conjunction with Cisco^ LWAPP Enabled Centralized Access Points
- Multi-layered security features
- Zero-configuration deployment
- Intelligent RF management
- Includes 8 x 5 SMARTnet^ warranty; upgrades available



Part Number	Part Description	Std. Pkg. Qty.
P-WLC2106-K9	Cisco^ 2000 Series WLAN Controller, supports up to six LWAPP-Enabled Centralized Access Points.	1
P-WC4402-12-K9	Cisco^ 4400 Series WLAN Controller, supports up to twelve LWAPP-Enabled Centralized Access Points.	1
P-WC4402-25-K9	Cisco^ 4400 Series WLAN Controller, supports up to 25 LWAPP-Enabled Centralized Access Points.	1
P-WC4402-50-K9	Cisco^ 4400 Series WLAN Controller, supports up to 50 LWAPP-Enabled Centralized Access Points.	1
P-WC4404-100-K9	Cisco^ 4400 Series WLAN Controller, supports up to 100 LWAPP-Enabled Centralized Access Points.	1

Available as part of an integrated wired and wireless solution.
^Cisco, SMARTnet, and Aironet are registered trademarks of Cisco Technology, Inc.

External Antennas

- Further extend network coverage in areas that may obstruct signal quality
- Permit flexible and scalable wireless configurations
- Facilitate lower total cost of network

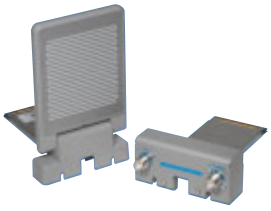


Part Number	Part Description	Std. Pkg. Qty.
P-ANT2422DB-R	Three 2.4 GHz 2.2 dBi Black Dipole Antennas RP-TNC.	1
P-ANT2430V-R	2.4 GHz 3 dBi Triple Omni Antennas 3 RP-TNC; spare.	1
P-ANT5135DB-R	Three 5 GHz 3.5 dBi Black Diple Antennas RP-TNC.	1
P-ANT5140V-R	5 GHz 4 dBi Triple Omni Antennas 3 RP-TNC; spare.	1
P-ANT1728	Cisco Aironet^ High Gain Omni-Directional Indoor Medium Range Ceiling Mount Antenna.	1
P-ANT1949	Cisco Aironet^ Yagi Mast Mount 13.5dBi Outdoor Medium Range Directional Antenna.	1
P-ANT2012	Cisco Aironet^ Diversity Patch 6.5dBi In/Outdoor Medium Range Wall Mount Antenna with two radiating elements, cable length 3 feet.	1
P-ANT2410Y-R	Cisco Aironet^ Yagi Mast Mount 10dBi Directional Antenna.	1
P-ANT2506	Cisco Aironet^ 5.2dBi Omni-Directional Outdoor Short Range Mast Mount Antenna.	1
P-ANT3213	Cisco Aironet^ Diversity Omni 5.2dBi Indoor Medium Range Pillar Mount Antenna.	1
P-ANT4941	Cisco Aironet^ 2.2 dBi Dipole 2.4 GHz Antenna (standard rubber duck antenna), 4".	1
P-ANT5135D-R	Cisco Aironet^ 3.5dBi Dipole 5 GHz Antenna (standard rubber duck antenna), 4".	1
P-ANT5145V-R	Cisco Aironet^ Patch 4.5 dBi Indoor Mid Range 5 GHz antenna with two radiating elements.	1
P-ANT5160V-R	Cisco Aironet^ 6 dBi Omni-Directional In/Outdoor 5GHz Antenna.	1
P-ANT5959	Cisco Aironet^ Patch 2 dBi Indoor Antenna with two radiating elements.	1

Available as part of an integrated wired and wireless solution.
^Cisco, SMARTnet, and Aironet are registered trademarks of Cisco Technology, Inc.

Wireless Accessories

- Full range of products to complete a WLAN installation
- WLAN compatible components ensure successful start up and operation
- Provide flexibility to meet customized configurations



Part Number	Part Description	Std. Pkg. Qty.
Platforms		
P-AP1250	Modular Autonomous AP Platform (no radio modules); spare.	1
P-LP1250	Modular Unified AP Platform (no radio modules); spare.	1
Radio Upgrades		
P-RM1252A-A-K9	802.11a/n-2.0 5 GHz Radio Module; 3 RP-TNC, FCC configuration; spare.	1
P-RM1252G-A-K9	802.11g/n-2.0 2.4 GHz Radio Module; 3 RP-TNC, FCC configuration; spare.	1
P-MP21G-A-K9	Cisco^ expansion module, Mini-PCI radio upgrade module 802.11g for Aironet^ 1100 and 1200 Series Access Point.	1
P-RM21A-A-K9	Cisco^ 802.11a radio upgrade module, cardbus for Aironet^ 1200 Series Access Point with articulating antenna paddle.	1
P-RM22A-A-K9	Cisco^ 802.11a radio upgrade module, cardbus for Aironet^ 1200 Series Access Point with two RP-TNC connectors.	1
Power Injectors		
P-PWR-1000	Power supply for Cisco Aironet^ 1000 Series Access Point.	1
P-PWRINJ-1000AF	802.3af Power injector for Cisco Aironet^ 1000 Series Centralized Access Points.	1
P-PWRINJ3	Cisco Aironet^ Power Injector (external), 48V, 15 Watts.	1
Cable Accessories		
P-ACC2537-060	Cisco Aironet^ 60" bulkhead extender; flexible antenna cable for use within an enclosure.	1
P-CONCAB1200	Aux console port cable.	1
Grounding Accessory		
P-ACC245LA-R	2.4 and 5 GHz lightning arrestor with RP-TNC connector.	1
Mounting Kits		
P-AP1250MNTGKIT	Cisco Aironet^ 1250 Series ceiling, wall-mount bracket kit; spare.	1
P-ACC-CEBZL1000	Cisco Aironet^ 1000 Series ceiling-mount bezel kit.	1
P-ACC-WBRKT1000	Cisco Aironet^ 1000 Series wall-mount bracket kit.	1
P-ACCWAMK1300	Cisco Aironet^ 1300 Series wall-mount bracket kit.	1
P-PWRINJ4	Cisco Aironet^ 1250 Series power injector.	1
P-PWR-SPLY1	Cisco Aironet^ 1250 Series power supply.	1
P-PWR-CORD-NA	Air line cord (North America).	1

Available as part of an integrated wired and wireless solution.

^Cisco, SMARTnet, and Aironet are registered trademarks of Cisco Technology, Inc.

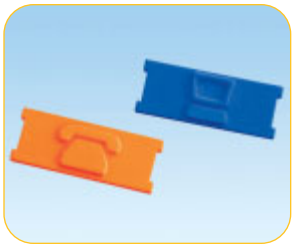
Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

OUTLETS

PANDUIT offers the most comprehensive selection of communication outlets to extend your copper, audio/video, and fiber cabling system to the work area. From a standard work station configuration to a MuTOA application, *PANDUIT* has a solution to support your requirements.







- **Completely modular, accepting all *MINI-COM*® Modules for copper, fiber, and audio/video applications**
- **Superior design provides lower profile, higher density outlet products, creating a cost-effective solution for easy moves, adds, and changes**
- **Aesthetically pleasing solution to compliment all types of work areas**
- ***ULTIMATE ID*® components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements**

Work area outlets products are easily installed and provide a broad range of solutions. Outlets solutions consist of a variety of faceplate styles and port densities, including tamper resistant and water resistant options. Surface mount boxes are available in shuttered and non-shuttered versions.

A. System Overview
B. Copper Systems
C. Fiber Optic Systems
D. Power over Ethernet
E. Zone Cabling
F. Wireless
G. Outlets
H. Media Distribution
I. Physical Infrastructure Management
J. Overhead & Underfloor Routing
K. Surface Raceway
L. Cabinets, Racks & Cable Management
M. Grounding & Bonding
N. Industrial
O. Labeling & Identification
P. Cable Management Accessories
Q. Index

Workstation Roadmap



1 *MINI-COM*® Faceplates (pages G.3 – G.14)



2 *MINI-COM*® Modular Furniture Faceplates (pages G.19 – G.21)



3 *MINI-COM*® Surface Mount Boxes (pages G.22 – G.27)



Mini-Com® *Ultimate ID*® Classic Series Faceplates

- Components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements
- Accept *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Supplied with color coordinated screw cover and clear station and port label covers, labels sold separately
- Can be clearly identified with the *PanTher*™ LS8E or *Cougar*™ LS9 Hand-Held Thermal Transfer Printers
- Non-adhesive computer printable label sheets for desktop printers and write-on labels available
- Replacement screw covers and label covers available
- Optional screw kit required for junction box mounting (JB*)
- Optional icons available

ULTIMATE ID


UICFP2IW


UICFP4IW


UICFP6IW


UICFPH2IW


UICFPH4IW

Part Number	Part Description	Color‡	Labels Required*	Std. Pkg. Qty.	Std. Ctn. Qty.
UICFP2IW	Single gang, vertical faceplate holds up to two *Mini-Com*® Modules.	Off White	One 1-Port One 2-Port	1	10
UICFP4IW	Single gang, vertical faceplate holds up to four *Mini-Com*® Modules.	Off White	One 1-Port Two 2-Port	1	10
UICFP6IW	Single gang, vertical faceplate holds up to six *Mini-Com*® Modules. Requires minimum 1.9" wide in-wall box or wallboard adapter for proper installation.	Off White	One 1-Port Two 3-Port	1	10
UICFPH2IW	Single gang, horizontal faceplate holds up to two *Mini-Com*® Modules.	Off White	One 1-Port One 2-Port	1	10
UICFPH4IW	Single gang, horizontal faceplate holds up to four *Mini-Com*® Modules.	Off White	One 1-Port One 4-Port	1	10

‡For other colors replace IW (Off White) with EI (Electric Ivory) or WH (White).
All faceplates supplied with mounting screws.
**Ultimate ID*® Labels can be found on pages O.8 and O.14.

Mini-Com® Classic Series Faceplates with Label and Label Cover

LISTED

- Accept *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Include label/label covers for easy port identification
- Replacement label/label covers available


CFPL2IWY


CFPL3IWY


CFPL4IWY


CFPL6IWY

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CFPL2IWY	Single gang, vertical faceplate accepts two *Mini-Com*® Modules.	Off White	1	10
CFPL3IWY	Single gang, vertical faceplate accepts three *Mini-Com*® Modules.	Off White	1	10
CFPL4IWY	Single gang, vertical faceplate accepts four *Mini-Com*® Modules.	Off White	1	10
CFPL6IWY	Single gang, vertical faceplate accepts six *Mini-Com*® Modules.	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), or IG (International Gray).
All faceplates supplied with mounting screws.

Component Labels for *Mini-Com*® Classic Series Faceplates with Label and Label Cover



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PanTher*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand-Held Printer Label
All CFPL Parts	**C195X040Y1J**	**C195X040Y1T**	**C195X040Y1C**	**T038X000FJC-BK‡**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For non-adhesive labeling solution, do not remove liner from label.

Mini-Com® Classic Series Sloped Faceplates with Label and Label Cover

- Accept *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Include label/label covers for easy port identification
- Replacement label/label covers available
- Optional icons available



CFPSL2IWY



CFPSL4IWY



CFPSL6IWY



CFPHSL4IW

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CFPSL2IWY	Single gang, sloped vertical faceplate accepts two *Mini-Com*® Modules.	Off White	1	10
CFPSL4IWY	Single gang, sloped vertical faceplate accepts four *Mini-Com*® Modules.	Off White	1	10
CFPSL6IWY	Single gang, sloped vertical faceplate accepts six *Mini-Com*® Modules. Requires minimum 1.9" wide electrical box for proper mounting.	Off White	1	10
CFPHSL4IW	Single gang, sloped horizontal faceplate accepts four *Mini-Com*® Modules.	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), or IG (International Gray).
All faceplates supplied with mounting screws.

Component Labels for *Mini-Com*® Classic Series Sloped Faceplates with Label and Label Cover



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PanTher*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand-Held Printer Label
All CFPSL Parts	**C195X040Y1J**	**C195X040Y1T**	**C195X040Y1C**	**T038X000FJC-BK‡**
All CFPHSL4 Parts	**C261X035Y1J**	**C261X035Y1T**	**C261X035Y1C**	**T038X000FJC-BK‡**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For non-adhesive labeling solution, do not remove liner from label.

Order number of pieces required, in multiples of Standard Package Quantity.

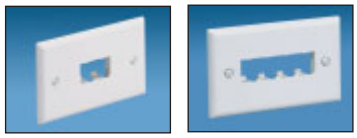
Prime items appear in **BOLD**.

MINI-COM® Classic Series Faceplates

- Accept *MINI-COM*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Optional adhesive labels available



CFP1IW CFP2IW CFP4IW



CFPH2 CFPH4IW

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CFP1IW	Single gang, vertical faceplate accepts one *MINI-COM*® Module.	Off White	1	10
CFP2IW	Single gang, vertical faceplate accepts two *MINI-COM*® Modules.	Off White	1	10
CFP4IW	Single gang, vertical faceplate accepts four *MINI-COM*® Modules.	Off White	1	10
CFPH2IW	Single gang, horizontal faceplate accepts two *MINI-COM*® Modules.	Off White	1	10
CFPH4IW	Single gang, horizontal faceplate accepts four *MINI-COM*® Modules.	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), or IG (International Gray).
All faceplates supplied with mounting screws.

Component Labels for *MINI-COM*® Classic Series Faceplates



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
CFP1	**C061X030FJJ**	**C061X030YPT**	**C061X030FJC**	**T031X000FJC-BK**
CFP2	**C125X030FJJ**	**C125X030YPT**	**C125X030FJC**	**T031X000FJC-BK**
CFP4				
CFPH2				
CFPH4	**C252X030FJJ**	**C252X030YPT**	**C252X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

MINI-COM® Classic Series Faceplate Kits

- Accept *MINI-COM*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Inserts are front releasable
- Optional adhesive labels available



CFPS4IW CFPF12IW-2G

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CFPS4IW	Single gang, vertical faceplate frame and two sloped inserts (two module spaces each). Accepts four *MINI-COM*® Modules.	Off White	1	10
CFPF12IW-2G	Double gang, vertical faceplate frame and six flat inserts (two module spaces each). Accepts twelve *MINI-COM*® Modules.	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), or IG (International Gray).
All faceplates supplied with mounting screws.

Component Labels for *Mini-Com*® Classic Series Faceplate Kits



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PanTher*™ LS8E Hand-Held Printer Label**	***Cougar*™ LS9 Hand-Held Printer Label**
CFPS4*	**C125X030FJJ**	**C125X030YPT**	**C125X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Mini-Com® *Ultimate ID*® Executive Series Faceplates

- *Ultimate ID*® components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements
- Accept *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Raised rail design for aesthetic appeal
- Supplied with color coordinated screw cover and clear station and port label covers, labels sold separately
- Can be clearly identified with the *PanTher*™ LS8E or *Cougar*™ LS9 Hand-Held Thermal Transfer Printers
- Non-adhesive computer printable label sheets for desktop printers and write-on labels available
- Replacement screw covers and label covers available
- Optional screw kit required for junction box mounting (JB*)
- Optional icons available



UICFPSE2IW



UICFPSE4IW



UICFPSE6IW



UICFPSE8IW-2G



UICFPHSE2IW



UICFPHSE4IW

Part Number	Part Description	Color‡	Labels Required*	Std. Pkg. Qty.	Std. Ctn. Qty.
UICFPSE2IW	Single gang, vertical sloped faceplate holds up to two *Mini-Com*® Modules.	Off White	One 1-Port One 2-Port	1	10
UICFPSE4IW	Single gang, vertical sloped faceplate holds up to four *Mini-Com*® Modules.	Off White	One 1-Port Two 2-Port	1	10
UICFPSE6IW	Single gang, vertical sloped faceplate holds up to six *Mini-Com*® Modules. Requires minimum 1.9" wide in-wall box or wallboard adapter for proper installation.	Off White	One 1-Port Two 3-Port	1	10
UICFPSE8IW-2G	Double gang, vertical faceplate holds up to eight *Mini-Com*® Modules.	Off White	Four 4-Port	1	10
UICFPHSE2IW	Single gang, horizontal sloped faceplate holds up to two *Mini-Com*® Modules.	Off White	One 1-Port One 2-Port	1	10
UICFPHSE4IW	Single gang, horizontal sloped faceplate holds up to four *Mini-Com*® Modules.	Off White	One 1-Port One 4-Port	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).
All faceplates supplied with mounting screws.
**Ultimate ID*® Labels can be found on pages O.8 and O.14.

MINI-COM® Executive Series Faceplates

- Accept *MINI-COM*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Include label/label covers for easy port identification
- Raised rail design for aesthetic appeal



CFPE1IWY CFPE2IWY CFPE4IWY



CFPE6IWY CFPE10IW-2GY

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CFPE1IWY	Single gang, vertical faceplate accepts one *MINI-COM*® Module.	Off White	1	10
CFPE2IWY	Single gang, vertical faceplate accepts two *MINI-COM*® Modules.	Off White	1	10
CFPE4IWY	Single gang, vertical faceplate accepts four *MINI-COM*® Modules.	Off White	1	10
CFPE6IWY	Single gang, vertical faceplate accepts six *MINI-COM*® Modules. Requires minimum 1.9" wide electrical box for proper mounting.	Off White	1	10
CFPE10IW-2GY	Double gang, vertical faceplate accepts ten *MINI-COM*® Modules.	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), or IG (International Gray).
All faceplates supplied with mounting screws.

Component Labels for *MINI-COM*® Executive Series Faceplates



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
CFPE1**Y	C195X040Y1J	C195X040Y1T	C195X040Y1C	T038X000FJC-BK‡
CFPE2**Y				
CFPE4**Y				
CFPE6**Y				
CFPE10**-2GY	C288X040Y1J	C288X040Y1T	C288X040Y1C	T038X000FJC-BK‡

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For non-adhesive labeling solution, do not remove liner from label.

MINI-COM® Sloped Executive Series Faceplate Kit

- Accepts *MINI-COM*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Sloped inserts are front releasable
- Includes label/label covers for easy port identification
- Raised rail design for aesthetic appeal



Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CFPSE4IWY	Single gang, vertical faceplate frame and two sloped inserts (two module spaces each). Accepts four *MINI-COM*® Modules.	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), or IG (International Gray).
All faceplates supplied with mounting screws.

Component Labels for *MINI-COM*® Sloped Executive Series Faceplate Kit



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
CFPSE4**Y	C195X040Y1J	C195X040Y1T	C195X040Y1C	T038X000FJC-BK‡

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For non-adhesive labeling solution, do not remove liner from label.

MINI-COM® Executive Series Faceplate Kits with Jack Modules

- Accept *MINI-COM*® Category 6 (CJ688TG), Category 5e (CJ5E88TG), or Category 3 (CJ66U) Modules, which snap in and out for easy moves, adds, and changes
- Convenience of having a faceplate with all the components to complete the outlet, in one package



CFKE2



CFKE4

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
Two Module Space Single Gang Faceplate Kit				
CFKE2A5U5J	Includes 2-port executive faceplate with two *MINI-COM*® Category 5e Jack Modules (BU, OR).	Off White	1	10
CFKE2A6U6J	Includes 2-port executive faceplate with two *MINI-COM*® Category 6 Jack Modules (BU, OR).	Off White	1	10
CFKE2A5U3A	Includes 2-port executive faceplate with one *MINI-COM*® Category 5e Jack Module (BU) and one *MINI-COM*® Category 3 Jack Module (IW).	Off White	1	10
CFKE2A6U3A	Includes 2-port executive faceplate with one *MINI-COM*® Category 6 Jack Module (BU) and one *MINI-COM*® Category 3 Jack Module (IW).	Off White	1	10
CFKE2F5U5J	Includes 2-port executive faceplate with two *MINI-COM*® Category 5e Jack Modules (BU, OR).	Electric Ivory	1	10
CFKE2F6U6J	Includes 2-port executive faceplate with two *MINI-COM*® Category 6 Jack Modules (BU, OR).	Electric Ivory	1	10
CFKE2F5U3F	Includes 2-port executive faceplate with one *MINI-COM*® Category 5e Jack Module (BU) and one *MINI-COM*® Category 3 Jack Module (EI).	Electric Ivory	1	10
CFKE2F6U3F	Includes 2-port executive faceplate with one *MINI-COM*® Category 6 Jack Module (BU) and one *MINI-COM*® Category 3 Jack Module (EI).	Electric Ivory	1	10
Four Module Space Single Gang Faceplate Kit with Blanks				
CFKE4A5U5J3AMA	Includes 4-port executive faceplate with two *MINI-COM*® Category 5e Jack Modules (BU, OR), one *MINI-COM*® Category 3 Jack Module (IW), and a blank.	Off White	1	10
CFKE4A6U6J5AMA	Includes 4-port executive faceplate with two *MINI-COM*® Category 6 Jack Modules (BU, OR), one *MINI-COM*® Category 5e Jack Module (IW), and a blank.	Off White	1	10
CFKE4F5U5J3FMF	Includes 4-port executive faceplate with two *MINI-COM*® Category 5e Jack Modules (BU, OR), one *MINI-COM*® Category 3 Jack Module (EI), and a blank.	Electric Ivory	1	10
CFKE4F6U6J5FMF	Includes 4-port executive faceplate with two *MINI-COM*® Category 6 Jack Modules (BU, OR), one *MINI-COM*® Category 5e Jack Module (EI), and a blank.	Electric Ivory	1	10

‡Faceplate colors IW (Off White) or EI (Electric Ivory).
Jack module colors BU (Blue), OR (Orange), IW (Off White), EI (Electric Ivory).
Blank matches color of faceplate.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Component Labels for *Mini-Com*® Executive Series Faceplate Kits with Jack Modules



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laer/Inkjet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PanTher*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand Held Printer Label
CFKE2*	C195X040Y1J	C195X040Y1T	C195X040Y1C	T038X000FJC-BK‡
CFKE4*				

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For non-adhesive labeling solution, do not remove liner from label.

Mini-Com® *Ultimate ID*® Tamper Resistant Faceplate Kit

- *Ultimate ID*® components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements
- Includes tamper resistant screw to prevent unauthorized access to the connections
- Front accessible inserts are recessed and provide a 30° slope to provide proper bend radius control
- Requires minimum in-wall box depth of 2.125"
- Accepts *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Supplied with color coordinated screw cover
- Can be clearly identified with the *PanTher*™ LS8E or *Cougar*™ LS9 Hand-Held Thermal Transfer Printers
- Non-adhesive computer printable label sheets for desktop printers and write-on labels available
- Replacement screw covers and label covers available
- Optional icons available





Part Number	Part Description	Color‡	Labels Required*	Std. Pkg. Qty.	Std. Ctn. Qty.
UICFPRTR4IW	Tamper resistant faceplate kit includes faceplate frame, two recessed modular inserts, faceplate cover with additional outlet station identifier and tamper resistant screw. Holds up to four *Mini-Com*® Modules.	Off White	One 1-Port Two 2-Port	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory) or WH (White).
All faceplates supplied with mounting screws.
1/16" hex key required for installation of tamper resistant screw.
**Ultimate ID*® Labels can be found on pages O.8 and O.14.

MINI-COM® Tamper Resistant Faceplates

- Include two tamper resistant screws to prevent unauthorized access to the connections (combo head screws also included)
- Sloped design improves bend radius control
- Made of impact resistant material
- Optional icons available
- Two-piece hinged design
- Mount to single gang opening
- Accept *MINI-COM*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes



CFPTR4IW



CFPTR2BEI

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CFPTR4IW	Single gang, vertical tamper resistant faceplate accepts four *MINI-COM*® Modules. Dimensions 5.8"H x 3.1"W x 1.5"D (147.32mm x 78.74mm x 38.10mm).	Off White	1	10
CFPTR2BEI	Single gang, vertical tamper resistant faceplate with two encased sloped ports and two accessible breakout ports in the base; accepts up to four *MINI-COM*® Modules. Dimensions 5.8"H x 3.1"W x 1.5"D (147.32mm x 78.74mm x 38.10mm).	Electric Ivory	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray), BL (Black), CIG (International Gray base with Clear cover) or CL (Clear base and cover).
All faceplates supplied with mounting screws.
Fiber modules are not recommended for use in bottom two module spaces due to bend radius control requirements.

Component Labels for *MINI-COM*® Tamper Resistant Faceplates



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
All CFPTR Parts	**C125X030FJJ**	**C125X030YPT**	**C125X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Mini-Com® Water Resistant Faceplate

- Includes unique gaskets that prevent water from entering and damaging connections
- Meets the level of protection required for an IP56 enclosure
- Sloped design improves bend radius control
- Made of impact resistant material
- Optional icons available
- Two-piece hinged design
- Mounts to single gang opening
- Includes combo head screws to secure cover to base (tamper resistant screws also included)
- Accepts *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes



Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CFPWR4CIG	Single gang, vertical water resistant faceplate accepts four *Mini-Com*® Modules. Dimensions 5.8"H x 3.1"W x 1.5"D (147.32mm x 78.74mm x 38.10mm).	International Gray Base and Clear Cover	1	10

‡For other colors replace suffix CIG (International Gray base with Clear cover) with IG (International Gray) or CL (Clear base and cover).
All faceplates supplied with mounting screws.
Fiber modules are not recommended for use in bottom two module spaces due to bend radius control requirements.

Component Labels for *Mini-Com*® Water Resistant Faceplate



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PanTher*™ LS8E Hand-Held Printer Label**	***Cougar*™ LS9 Hand-Held Printer Label**
CFPWR4CIG	**C125X030FJJ**	**C125X030YPT**	**C125X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Mini-Com® *Ultimate ID*® Stainless Steel Faceplates

- *Ultimate ID*® components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements
- Accept *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Supplied with coordinated screw cover and clear station and port label covers, labels sold separately
- Impact resistant 304 stainless steel suitable for light industrial environments



UICFP2S



UICFP4S



UICFP6S

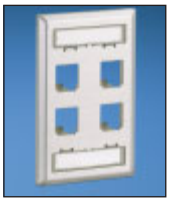
Part Number	Part Description	Labels Required*	Std. Pkg. Qty.	Std. Ctn. Qty.
UICFP2S	Single gang, vertical faceplate holds up to two *Mini-Com*® Modules.	One 1-Port One 2-Port	1	10
UICFP4S	Single gang, vertical faceplate holds up to four *Mini-Com*® Modules.	One 1-Port Two 2-Port	1	10
UICFP6S	Single gang, vertical faceplate holds up to six *Mini-Com*® Modules. Requires minimum 1.9" wide in wall box or wallboard adapter for proper installation.	One 1-Port Two 3-Port	1	10

All faceplates supplied with mounting screws.
**Ultimate ID*® Labels can be found on pages O.8 and O.14.

MINI-COM® Stainless Steel Faceplates with Labels

- Accept *MINI-COM*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Include label/label covers for easy port identification; replacement label/label covers available
- Impact resistant 304 stainless steel suitable for light industrial environments


CFPL2SY


CFPL4SY


CFPL6SY


CFPL4S-2GY


CFPL6S-2GY


CFPL8S-2GY


CFPL10S-2GY

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CFPL2SY	Single gang, vertical faceplate accepts two *MINI-COM*® Modules.	1	10
CFPL4SY	Single gang, vertical faceplate accepts four *MINI-COM*® Modules. Requires minimum 1.9" wide electrical box for proper mounting.	1	10
CFPL6SY	Single gang, vertical faceplate accepts six *MINI-COM*® Modules. Requires minimum 1.9" wide electrical box for proper mounting.	1	10
CFPL4S-2GY	Double gang, vertical faceplate accepts four *MINI-COM*® Modules.	1	10
CFPL6S-2GY	Double gang, vertical faceplate accepts six *MINI-COM*® Modules. Requires minimum 1.9" wide electrical box for proper mounting.	1	10
CFPL8S-2GY	Double gang, vertical faceplate accepts eight *MINI-COM*® Modules.	1	10
CFPL10S-2GY	Double gang, vertical faceplate accepts ten *MINI-COM*® Modules.	1	10

All faceplates include mounting screws.

Component Labels for *MINI-COM*® Stainless Steel Faceplates with Labels



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
CFPL2SY	**C195X040Y1J**	**C195X040Y1T**	**C195X040Y1C**	**T038X000FJC-BK‡**
CFPL4SY				
CFPL6SY				
CFPL4S-2GY	**C288X040Y1J**	**C288X040Y1T**	**C288X040Y1C**	**T038X000FJC-BK‡**
CFPL6S-2GY				
CFPL8S-2GY				
CFPL10S-2GY				

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For non-adhesive labeling solution, do not remove liner from label.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

MINI-COM® Stainless Steel Faceplates

LISTED

- Accept *MINI-COM*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Optional adhesive labels available
- Impact resistant 304 stainless steel suitable for light industrial environments


CFP2SY


CFP4SY


CFP6SY


CFP4S-2GY


CFP8S-2GY


CFP10S-2GY

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CFP2SY	Single gang, vertical faceplate accepts two *MINI-COM*® Modules.	1	10
CFP4SY	Single gang, vertical faceplate accepts four *MINI-COM*® Modules. Requires minimum 1.9" wide electrical box for proper mounting.	1	10
CFP6SY	Single gang, vertical faceplate accepts six *MINI-COM*® Modules. Requires minimum 1.9" wide electrical box for proper mounting.	1	10
CFP4S-2GY	Double gang, vertical faceplate accepts four *MINI-COM*® Modules.	1	10
CFP8S-2GY	Double gang, vertical faceplate accepts eight *MINI-COM*® Modules.	1	10
CFP10S-2GY	Double gang, vertical faceplate accepts ten *MINI-COM*® Modules.	1	10

All faceplates include mounting screws.

Component Labels for *MINI-COM*® Stainless Steel Faceplates



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
CFP2SY	C061X030FJJ	C061X030YPT	C061X030FJC	T031X000FJC-BK
CFP4SY				
CFP4S-2GY				
CFP6SY	C188X030FJJ	C188X030YPT	C188X030FJC	T031X000FJC-BK
CFP8S-2GY	C125X030FJJ	C125X030YPT	C125X030FJC	T031X000FJC-BK
CFP10S-2GY	C315X030FJJ	C315X030YPT	C315X030FJC	T031X000FJC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

MINI-COM® Classic and Executive Faceplate Frames

- Accept inserts which snap in and out of faceplate frames
- All inserts are front releasable
- Allow custom installations with your choice of inserts
- Optional adhesive labels available
- Executive faceplates frames have raised rail design for aesthetic appeal


CBIW


CBIW-2G


CBEIWY


CBEIW-2GY

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
Classic Faceplate Frames				
CBIW	Single gang faceplate frame accepts two 1/2 size module inserts or three 1/3 size module inserts.	Off White	1	10
CBIW-2G	Double gang faceplate frame accepts up to four 1/2 size module inserts or six 1/3 size module inserts.	Off White	1	10
Executive Faceplate Frames				
CBEIWY	Single gang faceplate frame accepts up to two 1/2 size module inserts or three 1/3 size module inserts. Supplied with labels and label cover/screw covers.	Off White	1	10
CBEIW-2GY	Double gang faceplate frame which accepts up to four 1/2 size module inserts or six 1/3 size module inserts. Supplied with labels and label cover/screw covers.	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).
All faceplate frames supplied with mounting screws.

Component Labels for *MINI-COM*® Classic and Executive Faceplate Frames



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Frame Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
CBEY**	**C125X030FJJ**	**C125X030YPT**	**C125X030FJC**	**T031X000FJC-BK**
CBE-2GY**	**C379X030FJJ**	**C379X030YPT**	**C379X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

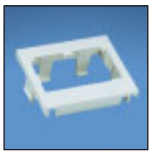
Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

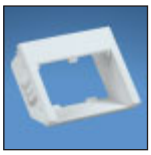
Mini-Com® Inserts

- Compatible with classic and executive faceplate frames
- Front releasable
- Accept *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes


CHS2IW-X


CHS2SIW-X


CHF2IW-X


CHSRE2IW-X


CHS1SIW-X


CHB2IW-X


CHF2MIW-X


CHB2MIW-X

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CHS2IW-X	Two module space, 1/2 size, sloped insert accepts two *Mini-Com*® Modules.	Off White	10	50
CHS2SIW-X	Two module space, 1/2 size, sloped shuttered insert accepts two *Mini-Com*® Modules. Shutters are spring loaded and rotate out of the way for cable connections. Not suitable for use with any audio/video or fiber connector module that protrudes beyond the face of the insert.	Off White	10	50
CHF2IW-X	Two module space, 1/2 size, flat insert accepts two *Mini-Com*® Modules.	Off White	10	50
CHSRE2IW-X	Two module space, 1/2 size, 30° sloped recessed insert accepts two *Mini-Com*® Modules.	Off White	10	50
CHS1SIW-X	One module space, 1/2 size, sloped shuttered insert accepts one *Mini-Com*® Module. Not suitable for use with any audio/video or fiber connector module that protrudes beyond the face of the insert.	Off White	10	50
CHB2IW-X	1/2 blank insert. Reserves space for future upgrades.	Off White	10	50
CHF2MIW-X	Two module space, 1/3 size, flat insert accepts two *Mini-Com*® Modules.	Off White	10	50
CHB2MIW-X	1/3 blank insert. Reserves space for future upgrades.	Off White	10	50

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

Component Labels for *Mini-Com*® Inserts



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Insert Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PanTher*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand-Held Printer Label
CHS2	C125X030FJJ	C125X030YPT	C125X030FJC	T031X000FJC-BK
CHS2S				
CHSRE2				
CHS1S	C061X030FJJ	C061X030YPT	C061X030FJC	T031X000FJC-BK
CHF2	C125X030FJJ	C125X030YPT	C125X030FJC	T031X000FJC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

D-Subminiature Inserts

- Used in audio and video applications
- Compatible with classic and executive faceplate frames



CHD9CIWY



CHD15HDCIWY



CHD15HDSCIWY

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CHD9CIWY	1/3 insert with 9-pin female to female coupler.	Off White	1	10
CHD15HDCIWY	1/3 insert with 15-pin high density female to female coupler; SVGA capable.	Off White	1	10
CHD15HDSCIWY	1/3 insert with one 15-pin DB connector mounted to a printed circuit board; terminates on site; SVGA capable.	Off White	1	10

‡For other colors, replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

Component Labels for *MINI-COM*® D-Subminiature Inserts



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
CHD9C**Y	C125X030FJJ	C125X030YPT	C125X030FJC	T031X000FJC-BK
CHD15HDC**Y				
CHD15HDSC**Y				

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

RCA 1/3 Inserts

- Used in audio and video applications
- Compatible with classic and executive faceplate frames



CHR3RGBIW

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CHR3RGBIW	1/3 insert with three RCA pass-through couplers. RCA insert colors are red, green, and blue. R,G,B component video.	Off White	1	10
CHR3WYRIW	1/3 insert with three RCA pass-through couplers. RCA insert colors are white, yellow, and red. Composite video and left and right stereo.	Off White	1	10

‡For other colors, replace suffix IW (Off White) with EI (Electric Ivory), WH (White), or IG (International Gray).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

MINI-COM® In-Wall Fiber Spool

- Maintains 1" internal bend radius
- Cable entry/exit from rear, top, and bottom helps maintain external bend radius
- Designed for use with single or double gang wall board adapter
- Stores up to 12 meters of unjacketed fiber cable or two meters of jacketed fiber cable
- 3.65" (92.7mm) depth from rear of faceplate, not for use with in-wall boxes or in shallow walls



Standards: TIA/EIA-568-B requires a minimum 1 meter slack and a fiber spool for in-wall installations.

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CFS2IW	In-wall fiber spool for use with *MINI-COM*® Faceplates, Faceplate Frames, Inserts and Modular Patch Panels.	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

MINI-COM® "GFCI" Decora Module Frames

- Mount behind any standard GFCI electrical faceplate
- Accept *MINI-COM*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Optional adhesive labels available



CFG1IW



CFG2IW

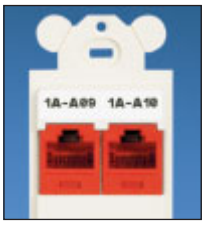


CFG4IW

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CFG1IW	Module frame accepts one *MINI-COM*® Module.	Off White	1	10
CFG2IW	Module frame accepts two *MINI-COM*® Modules.	Off White	1	10
CFG4IW	Module frame accepts four *MINI-COM*® Modules.	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).
All frames include mounting screws.

Component Labels for *MINI-COM*® "GFCI" Decora Module Frames



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Frame Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
CFG1 **CFG2**	**C061X030FJJ**	**C061X030YPT**	**C061X030FJC**	**T031X000FJC-BK**
CFG4	**C125X030FJJ**	**C125X030YPT**	**C125X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Mini-Com® 106 Duplex Module Frames

LISTED

- Mount behind standard 106 NEMA faceplates
- Accept *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes



CF1062IWY



CF1064IWY

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CF1062IWY	Module frame accepts two *Mini-Com*® Modules.	Off White	1	10
CF1064IWY	Module frame accepts four *Mini-Com*® Modules.	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).
All frames supplied with mounting screws.

Phone Plate with Module

LISTED

- Stainless steel construction
- Includes mounting studs on plate which are positioned to mount standard wall mount telephones with keystone adaptation flush to wall surface



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
KWP5EY	Stainless steel phone plate with *Giga-TX*™ Style Category 5e Keystone Jack Module.	1	10
KWP6PY	Stainless steel phone plate with *Giga-TX*™ Style Category 6 Keystone Jack Module.	1	10

Contact technical support to verify mounting holes when using IP or console type telephones.
All faceplates supplied with mounting screws.
Wall mount faceplate kits above only accept wall mountable phones with short patch cord connections to the jack module.

Component Labels for Keystone Phone Plate with Module



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Phone Plate Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PanTher*™ LS8E Hand-Held Printer Label**	***Cougar*™ LS9 Hand-Held Printer Label**
All KWP parts	**C061X030FJJ**	**C061X030YPT**	**C061X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

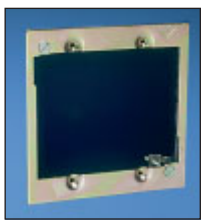
Wall Board Adapters

LISTED

- Provide a mounting surface for single or double gang faceplates



MWBA1



MWBA-2G

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
MWBA1	An alternative for single gang in-wall box in communication applications. Mounting hole spacing of 3.28" (83.5mm).	1	10
MWBA-2G	An alternative for double gang in-wall boxes in communication applications. Mounting hole spacing of 3.28" (83.5mm).	1	10

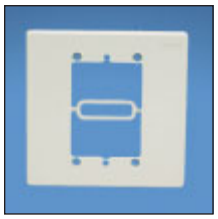
Adapters supplied with mounting screws.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

In-Wall Box Adapters

- Allow horizontal or vertical mounting



Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
MIWBAIW	Allows mounting of *Mini-Com*® Single Gang Faceplates and Surface Mount Boxes to double gang in-wall boxes and box eliminators.	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), or IG (International Gray).
Adapters supplied with mounting screws.

Tombstone Floor Box Adapter Plate

- Allows *Mini-Com*® Snap-On Modular Furniture Faceplates to be mounted to Walker* floor box
- Faceplate opening accepts *PANDUIT* CFFPL4, CFFP4, and CFFPE3 snap-on modular furniture faceplates



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
MSP500W	Stainless steel adapter plate mounts to Walker* floor box service fitting (Walker* part no. 525).	1	10

*Walker is a trademark of The Wiremold Co.

Mini-Com® *Ultimate ID*® Modular Furniture Faceplate

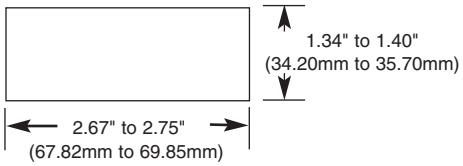
- *Ultimate ID*® components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements
- Accepts *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Supplied with clear station and port label covers, labels sold separately
- Can be clearly identified with the *Panther*™ LS8E or *Cougar*™ LS9 Hand-Held Thermal Transfer Printers
- Computer printable label sheets for desktop printers and write-on labels available
- Replacement label covers available
- Optional icons available
- Fits standard furniture openings



Part Number	Part Description	Color‡	Labels Required*	Std. Pkg. Qty.	Std. Ctn. Qty.
UICFFP4BL	Faceplate snaps into standard knockouts found on modular furniture. Holds up to four *Mini-Com*® Modules. See panel cutout requirement.	Black	One 1-Port One 4-Port	1	10

‡ For other colors replace suffix BL (Black) with EI (Electric Ivory), IG (International Gray), or IW (Off White).
**Ultimate ID*® Labels can be found on pages O.8 and O.14.

Panel Cutout Requirement:



Mini-Com® Snap-On Modular Furniture Faceplates

LISTED

- Accept *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Optional adhesive labels available
- Select faceplates feature label/label covers for easy port identification



CFFPL4



CFFP4



MFFPE



CFFPA2

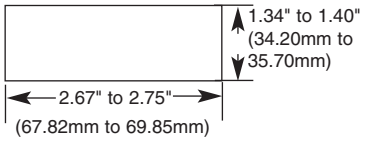


CFFPE3



CFFPLA4

Panel Cutout Requirements for CFFPL4, CFFP4, MFFPE, CFFPA2, CFFPE3 and CFFPLA4:

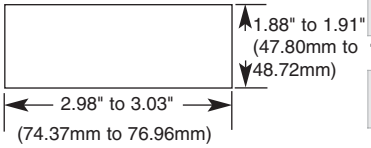


Maximum Panel Thickness: .09" (2.29mm)



CFFPHM4

Panel Cutout Requirements for CFFPHM4:



Maximum Panel Thickness: .09" (2.29mm)

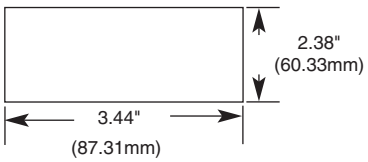


CFFPEBSL4

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
Four Module Space Modular Furniture Snap-On Faceplate with Labels				
CFFPL4BL	Faceplate snaps into industry standard knockouts found on modular furniture. Accepts up to four *Mini-Com*® Modules. Supplied with write-on label and label cover.	Black	1	10
Four Module Space Modular Furniture Snap-On Faceplate				
CFFP4BL	Faceplate snaps into industry standard knockouts found on modular furniture. Accepts up to four *Mini-Com*® Modules.	Black	1	10
Snap-On Modular Furniture Faceplate Extender				
MFFPEBL	For use when depth inside modular furniture base is limited. Extends plate approximately 1/2" (12.7mm). Accepts CFFPL4 and CFFP4 modular faceplates.	Black	1	10
Two Module Space Angled Modular Furniture Snap-On Faceplate				
CFFPA2BL	Angled faceplate snaps into industry standard knockouts found on modular furniture. Accepts up to two *Mini-Com*® Modules.	Black	1	10
Three Module Space Extended Furniture Snap-On Faceplate				
CFFPE3BL	Faceplate snaps into knockouts found on Knoll Morrison furniture as well as industry standard knockouts. Accepts up to three *Mini-Com*® Modules.	Black	1	10
Four Module Space Angled Modular Furniture Snap-On Faceplate with Labels				
CFFPLA4BL	Angled faceplate snaps into industry standard knockouts found on modular furniture. Accepts up to four *Mini-Com*® Modules. Supplied with write-on label and label cover.	Black	1	10
Four Module Space Herman Miller Furniture Snap-On Faceplate				
CFFPHM4BL	Faceplate snaps into knockouts found on Herman Miller furniture such as Action Office Series 2 and 3 and Ethospace Baseline. Accepts up to four *Mini-Com*® Modules.	Black	1	10
Four Module Space Herman Miller Ethospace Beltline Furniture Snap-On Faceplate				
CFFPEBSL4BL	Sloped faceplate snaps into knockouts found on Herman Miller furniture such as Ethospace Beltline. Accepts up to four *Mini-Com*® Modules. Supplied with write-on label and label cover and icon slots.	Black	1	10
Three Module Space Knoll Equity Furniture Snap-On Faceplate				
CFFPKE3BL	Faceplate snaps into knockouts found on Knoll Equity furniture. Accepts up to three *Mini-Com*® Modules.	Black	1	10
Replacement Labels for *Mini-Com*® Snap-On Modular Furniture Faceplates				
C4PPLK	Replacement label/label cover kit for *Mini-Com*® Modular Patch Panels with Labels (CPPL24WBLY, CPPL48WBLY, CPPL24WRBLY, CPPL48WRBLY) and *Mini-Com*® Modular Furniture Faceplates with Labels (CFFPL4, CFPHSL4, CFFPEBSL4). Each kit contains six labels and six clear label covers per bag.	—	1	10

‡For other colors replace suffix BL (Black) with EI (Electric Ivory), IG (International Gray), or IW (Off White).
For complete labeling solutions, reference charts on pages O.1 – O.18.

Panel Cutout Requirements for CFFPEBSL4:

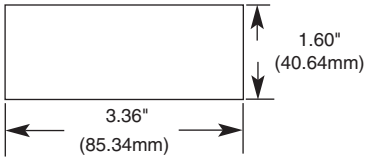


Maximum Panel Thickness: .05" (1.27mm)



CFFPKE3

Panel Cutout Requirements for CFFPKE3:



Maximum Panel Thickness: .040" (1.02mm)



C4PPLK

▪HERMAN MILLER is a trademark of Herman Miller, Inc., Zeeland, MI.

*KNOLL, MORRISON and EQUITY are trademarks of Knoll, Inc.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Component Labels for *Mini-Com*® Snap-On Modular Furniture Faceplates



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PanTher*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand-Held Printer Label
CFFPE3	C061X030FJJ	C061X030YPT	C061X030FJC	T031X000FJC-BK
CFFPKE3				
CFFP4	C125X030FJJ	C125X030YPT	C125X030FJC	T031X000FJC-BK
CFFPA2				
CFFPHM4				
CFFPL4	C261X035Y1J	C261X035Y1T	C261X035Y1C	T031X000FJC-BK
CFFPLA4				
CFFPEBSL4				

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.
‡For non-adhesive labeling solution, do not remove liner from label.

Mini-Com® Round Faceplates

- Accept *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Used in 2" diameter floor outlets
- Optional adhesive labels available



CRFPA2BL



CFFPR1BL-X

Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
CRFPA2BL	Two module space, 2" round in-floor outlet adapter.	Black	1	10
CFFPR1BL-X	One module space, 1.57" round furniture faceplate with screw.	Black	1	10

Component Labels for *Mini-Com*® Round Faceplates



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PanTher*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand-Held Printer Label
CRFPA2BL	C125X030FJJ	C125X030YPT	C125X030FJC	T031X000FJC-BK

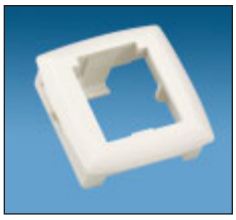
For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Mini-Com® One Position Adapters

- Accept *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Allow a single module to be mounted in a discrete location (cart, wall, furniture or flat panel)
- Snap into plastic or metal opening (size identified in part description)



CMNZABL-X



CMAA1IW-X

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMNZABL-X	Adapter snaps into 0.827" x 0.827" (21mm x 21mm) opening and accepts one *Mini-Com*® Module. For snug fit, panel thickness shall be .046" to .056".	Black	10	50
CMAA1IW-X	Adapter snaps into 1" x 1" (25mm x 25mm) opening and accepts one *Mini-Com*® Module. For snug fit, panel thickness shall be .06" to .08".	Off White	10	100

‡For other colors substitute suffix BL (Black) or IW (Off White) with WH (White).

Mini-Com® *Ultimate ID*® Hybrid Box

- *Ultimate ID*® components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements and TIA/EIA-568-B MUTOA requirements
- Accepts *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Provides independent access to copper and fiber optic connections
- Mounts to single gang, double gang, or DIN opening
- A retention block snaps to the base and accepts any single gang faceplate (up to six ports)
- Base accepts up to six *Mini-Com*® Fiber Optic Modules
- Manages up to 12 meters of buffered fiber optic cable that is secured in place by cable tie mounting loops
- Cover snaps to base and is secured with a screw; includes a 6-position *Ultimate ID*® Label Pocket to identify fiber optic connections; a clear screw cover is included for station identification
- Can be clearly identified with *PanThera*™ LS8E or *Cougar*™ LS9 Hand-Held Thermal Transfer Printers
- Non-adhesive computer printable label sheets for printers and write-on labels available
- Optional cover extension provides additional security of fiber connections
- Heat shrink tubing included



UICBXH6IW-A



UICBXHECIW



Part Number	Part Description	Color‡	Labels Required*	Used with *Pan-Way*® Raceway	Std. Pkg. Qty.	Std. Ctn. Qty.
UICBXH6IW-A	Hybrid box with cover accepts up to six *Mini-Com*® Modules in a single gang *Mini-Com*® Faceplate, and up to six *Mini-Com*® Fiber Optic Modules in the base.	Off White	One 1-Port One 6-Port	LD3, LD5	1	10
UICBXHC6IW-A	Hybrid box with cover and cover extension accepts up to six *Mini-Com*® Modules in a single gang *Mini-Com*® Faceplate, and up to six *Mini-Com*® Fiber Optic Modules in the base.	Off White	One 1-Port One 6-Port	LD3, LD5	1	10
UICBXHECIW	Cover extension for hybrid box.	Off White	—	—	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory) or WH (White).
**Ultimate ID*® Labels can be found on pages O.8 and O.14.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Mini-Com® *Ultimate ID*® Surface Mount Boxes

- *Ultimate ID*® components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements
- Accept *Mini-Com*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Supplied with color coordinated screw cover and clear station and port label covers, labels sold separately
- 4-port box includes adjustable mounting tabs that enable a range of modular furniture partitions to be used for mounting the box, maximum panel thickness .08"
- Can be clearly identified with *Panther*™ LS8E or *Cougar*™ LS9 Hand-Held Thermal Transfer Printers
- Non-adhesive computer printable label sheets for desktop printers and write-on labels available
- Replacement screw covers and label covers available
- Optional icons available
- Custom mounting screws included
- Mount easily with supplied mounting screws, adhesive tape or optional magnet pocket (CSBM-X)



UICBX2IW-A



UICBX4IW-A

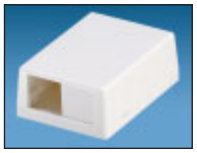
Part Number	Part Description	Color‡	Labels Required*	Used with *Pan-Way*® Raceway	Std. Pkg. Qty.	Std. Ctn. Qty.
UICBX2IW-A	Surface mount box accepts two *Mini-Com*® Modules. Dimensions: 1.06"H x 1.95"W x 3.65"L (26.92mm H x 49.53mm W x 92.71mm L).	Off White	One 1-Port One 2-Port	LD3	1	10
UICBX4IW-A	Surface mount box accepts four *Mini-Com*® Modules. Dimensions: 1.06"H x 3.69"W x 4.59"L (26.92mm H x 93.73mm W x 116.59mm L).	Off White	One 1-Port One 4-Port	LD3, LD5	1	10

‡For other colors replace suffix IW (Off White) with IG (International Gray), WH (White), or EI (Electric Ivory).
**Ultimate ID*® Labels can be found on pages O.8 and O.14.

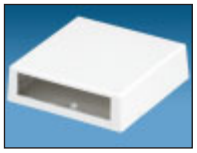
MINI-COM® Surface Mount Boxes

- Accept *MINI-COM*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Mount easily with supplied mounting screws, adhesive tape or optional magnet (CBM-X)
- Cable entry from side and rear knockouts and from opening in center of base
- CBXJ2 and CBX2 include built-in removable blank to add a second module
- Optional adhesive labels available

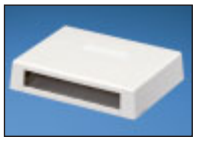

CBX1IW-A

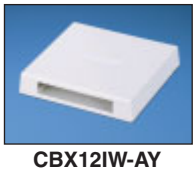

CBXJ2IW-A


CBX2IW-AY


CBXC4IW-A


CBX4IW-AY


CBXD6IW-AY


CBX12IW-AY

Part Number	Part Description	Color‡	Used with *PAN-WAY*® Raceway	Std. Pkg. Qty.	Std. Ctn. Qty.
CBX1IW-A	Surface mount box accepts one *MINI-COM*® Module. Dimensions: .9"H x 1.01"W x 1.88"L (22.86mm x 25.65mm x 47.75mm). Rear knockout provides opening of .42"H x .26"W.	Off White	LD3, LDS3*, LDPH5	1	10
CBXJ2IW-A	Surface mount box accepts one or two *MINI-COM*® Modules; includes built-in removable blank to add a second module. Dimensions: .91"H x 1.77"W x 2.44"L (23.11mm x 44.96mm x 61.98mm). Knockout provides opening of .47"H x .36"W.	Off White	LD5, LDPH5*	1	10
CBX2IW-AY	Surface mount box accepts one or two *MINI-COM*® Modules; includes built-in removable blank to add a second module. Dimensions: 1.06"H x 1.95"W x 3.65"L (26.92mm x 49.53mm x 92.71mm).	Off White	LD3, LDPH3, LD5, LDPH5	1	10
CBXC4IW-A	Surface mount box accepts four *MINI-COM*® Modules. Dimensions: .91"H x 3.20"W x 3.20"L (23mm x 80mm x 80mm).	Off White	LDPH5	1	10
CBX4IW-AY	Surface mount box accepts four *MINI-COM*® Modules. Provides slots that accept cable ties for strain relief. Supplied with label holder/screw cover. Dimensions: 1.1"H x 2.9"W x 4.5"L (27.94mm x 73.66mm x 114.30mm).	Off White	LD3, LDPH3, LD5, LDPH5	1	10
CBXD6IW-AY	Surface mount box accepts six *MINI-COM*® Modules. Provides slots that accept cable ties for strain relief. Provides bend radius control. Supplied with label holder/screw cover. Dimensions: 1.04"H x 4.95"W x 3.79"L (26.42mm x 125.73mm x 96.27mm).	Off White	LD3, LD5, LD10	1	10
CBX12IW-AY	Surface mount box holds up to twelve *MINI-COM*® Modules six on each side. Supplied with mounting screws, adhesive backing, and label holder/screw cover. Dimensions: 1.035"H x 5.71"W x 5.45"L (26mm x 145mm x 138mm).	Off White	LD5, LD10	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).
Raceway does not enter box.
Surface mount boxes do not accept icons.

Component Labels for *MINI-COM*® Surface Mount Boxes



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Box Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
CBX1**-A	C061X030FJJ	C061X030YPT	C061X030FJC	T031X000FJC-BK
CBXJ2**-A	C125X030FJJ	C125X030YPT	C125X030FJC	
CBX2**-AY				
CBXC4**-A	C252X030FJJ	C252X030YPT	C252X030FJC	
CBX4**-AY				
CBXD6**-AY	C379X030FJJ	C379X030YPT	C379X030FJC	
CBX12**-AY				

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

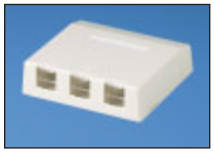
Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

MINI-COM® Shuttered Surface Mount Boxes

- Accept *MINI-COM*® Modules for STP and UTP, FJ® Fiber Optic Jack Modules and other flush modules, which snap in and out for easy moves, adds, and changes
- Clear shuttered doors are spring-loaded to stay closed to prevent dust from entering module opening; doors can be collapsed to insert plug into module
- Cable entry from side, rear, and base knockouts
- Mount easily with supplied mounting screws, adhesive tape, or optional magnet (CSBM-X)
- Optional icons available
- Optional adhesive labels available


CBXS1IW-A


CBXS2IW-A


CBXS3IW-AY


CBXS4IW-AY

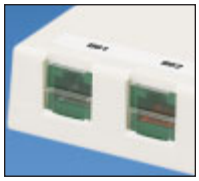

CBXS6IW-AY


CBXSD6IW-AY

Part Number	Part Description	Color‡	Used with *PAN-WAY*® Raceway	Std. Pkg. Qty.	Std. Ctn. Qty.
CBXS1IW-A	Shuttered surface mount box accepts one *MINI-COM*® Module. .62"H x 1.64"W x 2.47"L (15.75mm x 41.66mm x 62.73mm).	Off White	LD5/LDPH5*	1	10
CBXS2IW-A	Shuttered surface mount box accepts two *MINI-COM*® Modules. .94"H x 2.40"W x 2.5"L (23.88mm x 60.96mm x 63.50mm).	Off White	LD5/LDPH5*	1	10
CBXS3IW-AY	Shuttered surface mount box accepts three *MINI-COM*® Modules. .94"H x 3.62"W x 3.31"L (23.88mm x 92.00mm x 84.00mm).	Off White	LD5/LDPH5	1	10
CBXS4IW-AY	Shuttered surface mount box accepts four *MINI-COM*® Modules. .94"H x 4.65"W x 3.28"L (23.88mm x 118.11mm x 83.31mm).	Off White	LD3/LDPH3 LD5/LDPH5	1	10
CBXS6IW-AY	Shuttered surface mount box accepts six *MINI-COM*® Modules. .94"H x 6.7"W x 3.28"L (23.88mm x 170.18mm x 83.31mm).	Off White	LD3/LDPH3 LD5/LDPH5	1	10
CBXSD6IW-AY	Deep shuttered surface mount box accepts six *MINI-COM*® Modules (includes cable routing bridge). 1.16"H x 7.58"W x 3.86"L (29.60mm x 192.50mm x 98.00mm).	Off White	LD5/LDPH5 LD10/ LDPH10	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).
Raceway does not enter box.

Component Labels for *MINI-COM*® Shuttered Surface Mount Boxes



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Box Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
CBXS1-A**	**C061X030FJJ**	**C061X030YPT**	**C061X030FJC**	**T031X000FJC-BK**
CBXS2-A**				
CBXS3-A**				
CBXS4-A**				
CBXS6-A**				
CBXSD6-A**				

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

MINI-COM® *ULTIMATE ID*® Multi-Media/Fiber Surface Mount Box

- *ULTIMATE ID*® components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements
- Accepts *MINI-COM*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Features twelve ports, six on each side, angled to improve bend radius control
- Includes two knockouts which are compatible with *PANDUIT* LD5 and LD10 raceway
- Mounts to single or double gang opening
- Mounts easily with supplied mounting screws, adhesive tape, or optional magnet (CSBM-X)
- Supplied with clear station and port label covers, labels sold separately
- Can be clearly identified with the *PANTHER*™ LS8E or *COUGAR*™ LS9 Hand-Held Thermal Transfer Printers
- Non-adhesive computer printable label sheets for desktop printers and write-on labels available
- Replacement label covers available
- Optional icons available

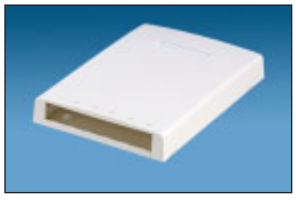


Part Number	Part Description	Color‡	Labels Required*	Std. Pkg. Qty.	Std. Ctn. Qty.
UICBXA12IW-A	Multi-media surface mount box accepts up to twelve *MINI-COM*® Modules and includes built-in figure eight spool to help manage fiber cable.	Off White	Two 4-Port Two 6-Port	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory) or WH (White).
All surface mount boxes supplied with mounting screws.
**ULTIMATE ID*® Labels can be found on pages O.8 and O.14.

MINI-COM® Multi-Media/Fiber Surface Mount Boxes

- Accept *MINI-COM*® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Mount easily with supplied mounting screws or adhesive tape
- Cable tie slots for improved cable management
- Tamper resistant screw for added security
- Unique built-in fiber spool design secures cable in place and stores up to 78.8 feet (24 meters) of buffered fiber optic cable
- Cable entry from side and rear knockouts and from opening in bottom of base
- Optional adhesive labels available
- Combination label/label cover for custom outlet identification



CBXF6IW-AY

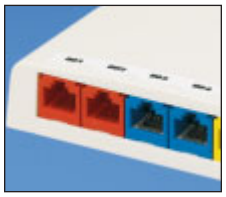


CBXF12IW-AY

Part Number	Part Description	Color‡	Used with *PAN-WAY*® Raceway	Std. Pkg. Qty.	Std. Ctn. Qty.
CBXF6IW-AY	Surface mount box accepts up to six *MINI-COM*® Modules. Icons slots available for optional icons. .99"H x 4.71"W x 6.67"L (25mm x 120mm x 170mm).	Off White	LD3/LD5	1	10
CBXF12IW-AY	Surface mount box accepts up to twelve *MINI-COM*® Modules. 1.81"H x 4.71"W x 6.67"L (46mm x 120mm x 170mm).	Off White	LD3/LD5/ LD10	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

Component Labels for *Mini-Com*® Multi-Media/Fiber Surface Mount Boxes



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*Panther*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand-Held Printer Label
CBXF6**	C379X030FJJ	C379X030YPT	C379X030FJC	T031X000FJC-BK
CBXF12**-AY				

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Mini-Com® MuTOA 6-Port Outlet Box

- Accepts *Mini-Com*® Modules for STP and UTP, fiber optic and audio/video, which snap in and out for easy moves, adds, and changes
- Mounts easily with adhesive tape or optional magnet (CSBM-X)
- Two pass-through holes allow surface mounting with screws (not included)
- Expandable cable opening will adjust to different cable bundle sizes
- Accepts up to three 1/2 sloped inserts (shuttered or non-shuttered) for up to six modules (inserts and modules not included)
- Two mounting eyelets (by the cable opening) allow the MuTOA to be suspended
- Cable tie support slot will hold cable bundle in place during assembly
- Ideal for pre-assembled cable runs



Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CM6PIW	MuTOA 6-port outlet box accepts up to six *Mini-Com*® Modules when using 1/2 sloped inserts. Cable entry opening: .695" (17.7mm) to .825" (21.0mm) Dia.; Overall dimensions 2.36"H x 1.81"W x 7.90"L (59.9mm x 46mm x 200.7mm).	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray), BL (Black) and CL (Clear).

A complete listing of inserts can be found on page G.15.

Component Labels for *Mini-Com*® MuTOA 6-Port Outlet Boxes



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*Panther*™ LS8E Hand-Held Printer Label	*Cougar*™ LS9 Hand-Held Printer Label
CM6PIW	C125X030FJJ	C125X030YPT	C125X030FJC	T031X000FJC-BK

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Optional Magnets

- Used to mount surface mount boxes to metal surfaces



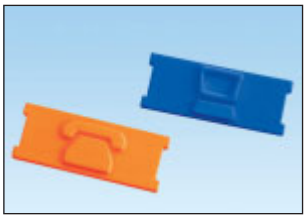
CBM-X

CSBM-X

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CBM-X	Magnet for non-shuttered version surface mount boxes.	10	100
CSBM-X	Magnet for shuttered version surface mount boxes.	10	100

ULTIMATE ID® Icons

- Provide port identification of data and voice applications
- Compatible with *ULTIMATE ID*® Surface Mount Boxes, Faceplates, and Patch Panel Faceplates
- Mount flush with *ULTIMATE ID*® Label Pocket



Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
UICIDIW-C	Plastic snap-in icon with data image.	Off White	100	1000
UICIPIW-C	Plastic snap-in icon with phone image.	Off White	100	1000

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow) or VL (Violet).
ULTIMATE ID® Icons are not TIA/EIA-606-A standard compliant.
See page G.29 for *MINI-COM*® Icons.

ULTIMATE ID® Replacement Label Covers and Screw Covers

- For use with *ULTIMATE ID*® Faceplates, Patch Panels, Hook and Loop Marker Ties and Surface Mount Boxes
- *ULTIMATE ID*® components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements



Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
UILC1CL-X	1-port label or screw cover.	Clear	10	100
UILC2CL-X	2-port label cover.	Clear	10	100
UILC3CL-X	3-port label cover.	Clear	10	100
UILC4CL-X	4-port label cover.	Clear	10	100
UILC6CL-X	6-port label cover.	Clear	10	100

‡For other colors replace CL (Clear) with appropriate color designation to match *ULTIMATE ID*® component.
See page G.30 for *MINI-COM*® Replacement Screw Covers and Replacement Label Covers.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

ULTIMATE ID® Write-On Labels

- Write-on labels for use with *ULTIMATE ID*® Faceplates, Surface Mount Boxes, and Patch Panels
- *ULTIMATE ID*® components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements



UIWOL2

Part Number	Part Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
UIWOL1-L	1-port, white non-adhesive polyester write-on label.	White	50	250
UIWOL2-L	2-port, white non-adhesive polyester write-on label.	White	50	250
UIWOL3-L	3-port, white non-adhesive polyester write-on label.	White	50	250
UIWOL4-L	4-port, white non-adhesive polyester write-on label.	White	50	250
UIWOL6-L	6-port, white non-adhesive polyester write-on label.	White	50	250

The TIA/EIA-606-A standard states that all labels shall be mechanically generated, write-on labels are not standard compliant.

Icons

- Provide port identification of data and voice installations
- Offered in a variety of colors for color coding requirements
- Snap into dedicated slot of select *MINI-COM*® Modules, Surface Mount Boxes, and Faceplates



Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CIPIW-C	Plastic snap-in icon with phone image.	Off White	100	1000
CIDIW-C	Plastic snap-in icon with data image.	Off White	100	1000

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow) or VL (Violet).
Icons with lettering available, contact *PANDUIT* Customer Service.

Replacement Screw Cover

- For use in place of clear label covers for select surface mount boxes and single gang faceplates



Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CSCIW-X	Screw cover has a textured surface and blends with the faceplates and surface mount boxes for improved aesthetics.	Off White	10	100

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Gray) or BL (Black).

Replacement Label/Label Cover Kits

- For use with *Mini-Com*® Executive and Classic Series Faceplates with Labels and select *Mini-Com*® Surface Mount Boxes



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Label/Label Cover Kit			
CSGLLC-L	Single gang *Mini-Com*® Label/Label Cover Kit. Each kit contains 50 labels and 50 clear label covers.	50	250
Label/Label Cover Kits with Screws			
EFPK-XY	Single gang label/label cover and two screws. Also works with select surface mount boxes.	10	50
EFPK102G-XY	Double gang label/label cover and four screws.	10	50

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Depth to Rear of Module Reference Guide

Part Number	All TG Style Modules		TX Style Modules		Shielded TX Style Modules		Fiber with Boot		Lead Frame Modules	
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
Mini-Com® Classic Series Faceplates with Label and Label Cover										
CFPL2**Y, CFPL3**Y, CFPL4**Y, CFPL6**Y	1.23	31.2	1.16	29.5	1.43	36.3	1.89	48.0	1.11	28.2
Mini-Com® Classic Series Dedicated Sloped Faceplates										
CFPHS2**, CFPSL2**, CFPHSL4**, CFPSL4**, CFPSL6**	.95	24.1	.76	19.3	.96	24.4	.92	23.4	.80	20.3
Mini-Com® Classic Series Vertical Faceplates										
CFP1**, CFP2**, CFP4**	1.24	31.5	1.17	29.7	1.44	36.6	1.90	48.3	1.12	28.4
Mini-Com® Classic Series Horizontal Faceplates										
CFPH2**, CFPH4**	1.24	31.5	1.17	29.7	1.44	36.6	1.90	48.3	1.12	28.4
Mini-Com® Classic Series Faceplate Kits										
CFPS4**	.80	20.3	.80	20.3	.80	20.3	.92	23.4	.80	20.3
CFPF12**-2G	1.24	31.5	1.17	29.7	1.44	36.6	1.90	48.3	1.12	28.4
Mini-Com® Executive Series Faceplates										
CFPE1**Y, CFPE2**Y, CFPE4**Y, CFPE6**Y, CFPE10**-2GY	.99	25.1	.92	23.4	1.19	30.2	1.65	41.9	.87	22.1
Mini-Com® Executive Series Faceplate Kit										
CFPSE4**Y	.66	16.8	.66	16.8	.79	20.1	1.02	25.9	.63	16.0
Mini-Com® Industrial Faceplates										
CFPWR4**, CFPTR4**	1.26	32.0	1.17	29.7	1.61	40.9	2.07	52.6	1.29	32.8
Mini-Com® Faceplate Frames for Sloped, Flat, and Blank Module Inserts										
CB**-2G										
Flat	1.24	31.5	.76	19.3	1.44	36.6	1.90	48.3	1.12	28.4
Sloped	.80	20.3	.80	20.3	.80	20.3	.92	23.4	.80	20.3
Recessed	1.36	34.5	1.36	34.5	1.49	37.8	1.72	43.7	1.33	33.8
30 degree insert	1.79	45.5	1.79	45.5	1.90	48.3	2.15	54.6	1.77	45.0
CBE**-2GY										
Flat	.99	25.1	.92	23.4	1.19	30.2	1.65	41.9	.87	22.1
Sloped	.66	16.8	.66	16.8	.79	20.1	1.02	25.9	.63	16.0
Recessed	1.46	37.1	1.46	37.1	1.59	40.4	1.82	46.2	1.43	36.3
30 degree insert	1.54	39.1	1.54	39.1	1.65	41.9	1.90	48.3	1.52	38.6
Mini-Com® 106 Duplex Module Frames										
CF1062**Y	1.24	31.5	1.17	29.7	1.44	35.6	1.90	48.3	1.12	28.4
CF1064**Y	1.26	32.0	1.19	30.2	1.46	37.1	1.92	48.8	1.14	28.9
Classic Series Faceplates for Power or Communication Applications										
CP106**, CP106**-2G, CPG**, CPG**-2G	1.24	31.5	1.17	29.7	1.44	36.6	1.90	48.3	1.12	28.4
Executive Series Faceplates										
ECPG**, ECPG**-2G	.97	24.6	.90	22.9	1.17	29.7	1.63	41.4	.85	21.6
Stainless Steel Faceplates including Ultimate ID® Faceplates										
WPS-20	1.24	31.5	1.17	29.7	1.44	36.6	1.90	48.3	1.12	28.4
WPS-202	1.24	31.5	1.17	29.7	1.44	36.6	1.90	48.3	1.12	28.4
CFP(L)2SY,UICFP2S	1.26	32.0	1.19	30.2	1.46	37.1	1.97	50.0	1.14	29.0
CFP(L)4SY, UICFP4S	1.26	32.0	1.19	30.2	1.46	37.1	1.97	50.0	1.14	29.0
CFP(L)6SY, UICFP6S	1.26	32.0	1.19	30.2	1.46	37.1	1.97	50.0	1.14	29.0
CFP(L)4S-2GY	1.26	32.0	1.19	30.2	1.46	37.1	1.97	50.0	1.14	29.0
CFP(L)8S-2GY	1.26	32.0	1.19	30.2	1.46	37.1	1.97	50.0	1.14	29.0
CFP(L)10S-2GY	1.26	32.0	1.19	30.2	1.46	37.1	1.97	50.0	1.14	29.0
In-Wall Box Adapter										
MIWBA**	Subtract .22" or 5.6mm from depth to rear of module modular furniture faceplate measurement									
Mini-Com® Snap-On Modular Furniture Faceplates										
CFFPL4**	1.10	27.9	1.01	25.7	1.28	32.5	1.74	44.2	.96	24.4
CFFP4**	1.10	27.9	1.01	25.7	1.28	32.5	1.74	44.2	.96	24.4
CFFPA2**	.86	21.8	.77	19.6	.76	19.3	.99	25.1	.60	15.2
MFFPE**	Subtract .50" or 12.7mm from depth to rear of module modular furniture faceplate measurement									
CFFPHM4**	1.09	27.7	1.01	25.7	1.28	32.5	1.74	44.2	.96	24.4
CFFPEBSL4**	.49	12.4	.49	12.4	.76	19.3	1.22	31.0	.44	11.2
CFFPSL4**	.49	12.4	.44	11.2	.57	14.5	.86	21.8	.41	10.4
Round Faceplates										
CRFPA2**	1.49	37.8	1.42	36.1	1.69	42.9	2.15	54.6	1.37	34.8
CFFPR1**-X	1.50	38.1	1.43	36.3	1.70	43.2	2.16	54.9	1.38	35.1
Mini-Com® Ultimate ID® Executive Series Faceplates										
UICFPSE2**	.73	18.5	.55	14.0	.88	22.4	1.50	38.1	.55	14.0
UICFPSE4**	.73	18.5	.55	14.0	.88	22.4	1.50	38.1	.55	14.0
UICFPSE6**	.73	18.5	.55	14.0	.88	22.4	1.50	38.1	.55	14.0
UICFPHSE2**	.73	18.5	.55	14.0	.88	22.4	1.50	38.1	.55	14.0
UICFPHSE4**	.73	18.5	.55	14.0	.88	22.4	1.50	38.1	.55	14.0
UICFPSE8**-2G	.73	18.5	.55	14.0	.88	22.4	1.50	38.1	.55	14.0
Mini-Com® Ultimate ID® Tamper Resistant Faceplate										
UICFPRTR4										
Flat	1.50	38.1	1.43	36.3	1.70	43.2	2.16	54.9	1.38	35.1
Sloped	1.22	31.0	1.04	26.4	.95	24.1	1.18	30.0	.79	20.1
Recessed	1.62	41.1	1.62	41.1	1.75	44.5	1.98	50.3	1.59	40.4
30 degree insert	1.67	42.4	1.67	42.4	1.81	46.0	2.06	52.3	1.68	42.7
Mini-Com® Ultimate ID® Classic Series Faceplates										
UICFP2**, UICFP4**, UICFP6**, ICFPH2**, UICFPH4**	1.23	31.2	1.16	29.5	1.43	36.3	1.89	48.0	1.11	28.2
Mini-Com® Ultimate ID® Modular Furniture Faceplate										
UICFFP4BL	.86	21.8	.79	20.1	1.06	26.9	1.52	38.6	.74	18.8
Keystone Phone Plate with Keystone Module										
KWP5EY and KWP6PY	—	—	1.00	25.4	—	—	—	—	—	—

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K. Surface Raceway
L. Cabinets, Racks & Cable Management
M. Grounding & Bonding
N. Industrial
O. Labeling & Identification
P. Cable Management Accessories
Q. Index

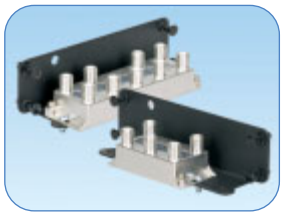
NOTES

Media Distribution System

The *PANDUIT* media distribution system offers a cost-effective way to distribute voice, video, and data (commonly referred to as triple play services) to commercial or residential locations within a multi-unit building. The innovative system consolidates all incoming communication cabling within an enclosure and efficiently distributes the services to individual outlets within the home or office.







- **Provides high-density capacity by supporting a greater number of connections in a smaller enclosure, as compared to similar products**
- **Offers a modular design that provides flexibility to mix and match triple play services and to easily modify those services as needs change**
- **Consolidates all incoming communication cable into one centralized location to simplify installations and troubleshooting**

The media distribution system includes enclosures, voice and data hubs, patch panel, video splitters and multiple accessories providing flexibility and choice to meet individual cabling needs.

The *PANDUIT* media distribution system complements an extensive line of *PANDUIT* offerings (including A/V modules, faceplates, copper cabling and jacks, patch panels and cable management) to enable a complete network infrastructure from the building demarcation point to the end user's network outlet.

Media Distribution System Roadmap



1 **Enclosures** (page H.3)



2 **Voice (Phone) Hubs** (page H.4)



3 **Video Splitters** (page H.4)



4 **Data Hubs** (page H.5)



5 **Accessories** (page H.5)



6 **Faceplates** (page G.5)



7 **A/V Modules** (pages B.45 – B.49)



8 **Jack Modules** (pages B.11, B.15, B.19, B.25, B.28, B.29, B.35 and B.44 – B.49)



9 **Fiber Optic Adapter Modules** (pages C.39 – C.45)



10 **Patch Cords** (pages B.13, B.16, B.24, B.33 and B.36)



11 **Modular Patch Panels** (pages B.51 – B.60)

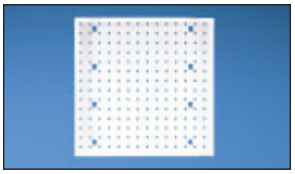
Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Media Distribution Enclosures

NEW!

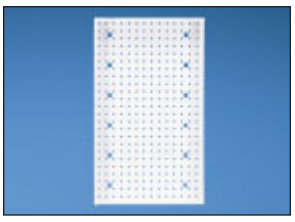
- 1" grid pattern in base provides mounting and flexibility for the hubs
- Multiple 2.5" knockouts at top and bottom for cable entry and exit
- Include two single gang power knockouts
- Cantilever mounting slots flex to accommodate misaligned studs
- Shear forms along sidewalls to help route and secure cable in place
- Drywall positioning slots



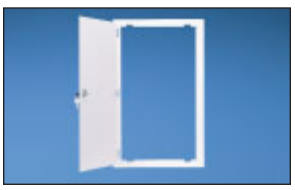
MS14B



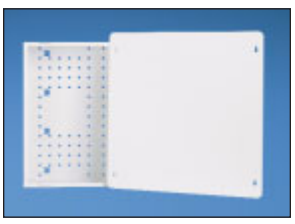
MS14HD



MS24B



MS24HD



MSB14E



MSB24E

Part Number	Part Description	Std. Pkg. Qty.
Advanced Enclosures		
MS14B	14" x 14" media distribution enclosure base. 14.25"H x 14.25"W x 4.00"D (362.0mm x 362.00mm x 101.6mm).	1
MS14HD	14" x 14" hinged door with lock and key. 15.81"H x 15.75"W x .87"D (401.6mm x 400.00mm x 22.1mm).	1
MS24B	14" x 24" media distribution enclosure base. 24.25"H x 14.25"W x 4.00"D (616.0mm x 362.00mm x 101.6mm).	1
MS24HD	14" x 24" hinged door with lock and key. 25.81"H x 15.75"W x .87"D (655.6mm x 400.00mm x 22.1mm).	1
Basic Enclosures		
MSB14E	14" x 14" media distribution basic enclosure with screw down door. 14.25"H x 14.25"W x 4.00"D (362.0mm x 362.00mm x 101.6mm).	1
MSB24E	14" x 24" media distribution basic enclosure with screw down door. 24.25"H x 14.25"W x 4.00"D (616.0mm x 362.00mm x 101.6mm).	1

Base and door for advanced enclosures sold separately.
All product color is white.

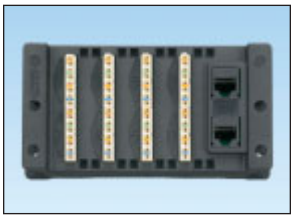
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NEW! Media Distribution Voice Hubs

- Manage up to four incoming lines and distribute service to eight outlets per line
- Offer built-in cable mounts to help organize and route cable
- Provide stackability feature to save space and increase the density of an installation
- Snap directly onto grid patterns within enclosures to simplify installations and allow easy moves, adds, and changes



MS8PD



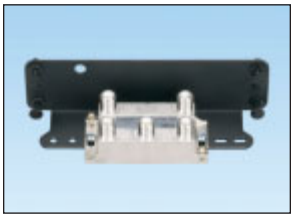
MS8PE

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
MS8PD	Phone distribution hub that includes test ports and a built-in security interface switch that can override phone service in emergency situations.	1	10
MS8PE	Phone expansion hub that adds up to eight additional phone connections per line.	1	10

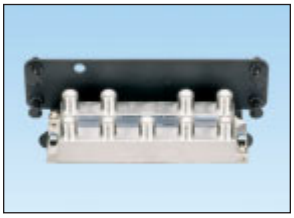
All product color is black.

NEW! Media Distribution Video Splitters

- Split incoming video/coax to distribute service throughout the unit
- Pre-mounted onto metal bracket for quick installation
- Include grounding screws
- Snap directly onto grid patterns within enclosures to simplify installations and allow easy moves, adds, and changes



MS4S1G



MS8S2G

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
1 GHz Splitters			
MS4S1G	Media distribution 1 x 4 passive video splitter with 1 GHz performance to distribute high-quality RF signals to up to four outputs.	1	10
MS8S1G	Media distribution 1 x 8 passive video splitter with 1 GHz performance to distribute high-quality RF signals to up to eight outputs.	1	10
2 GHz Splitters			
MS4S2G	Media distribution 1 x 4 passive video splitter with 2 GHz performance to distribute high-quality RF signals to up to four outputs.	1	10
MS8S2G	Media distribution 1 x 8 passive video splitter with 2 GHz performance to distribute high-quality RF signals to up to eight outputs.	1	10

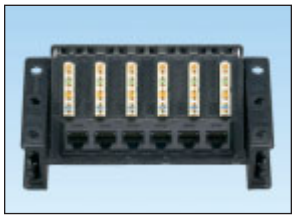
Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Media Distribution Data Hub

NEW!

- Distributes media and data service
- Allows for fast and effective terminations
- Offers built-in cable mounts to help organize and route cable
- Provides stackability feature to save space and increase the density of an installation
- Snaps directly onto grid patterns within enclosures to simplify installations and allow easy moves, adds, and changes



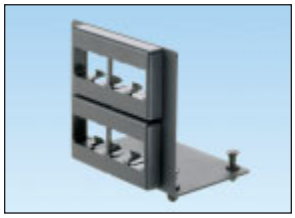
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
MS5E6PP	Media distribution data hub with Category 5e performance that distributes media and data to up to six different locations; includes front-side 110 punchdown terminations.	1	10

All product color is black.

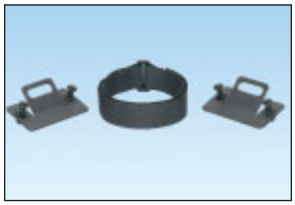
Media Distribution Accessories

NEW!

- Support media distribution voice hubs, data hub, and video splitters



MS8PP



MSEBRKT



MSCM-KIT



MSGRD-KIT

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
MS8PP	Media distribution *Mini-Com*® Patch Panel that accepts all *Mini-Com*® Modules, providing a Category 6 solution to distribute media and data to up to eight different locations.	1	10
MSEBRKT	Media distribution equipment bracket that allows a variety of third-party equipment to be securely mounted within an enclosure.	1	10
MSCM-KIT	Media distribution cable management kit that includes the necessary components to help manage cables.	1	10
MSGRD-KIT	Media distribution grounding kit that includes necessary components to help ground media distribution advanced enclosures.	1	10

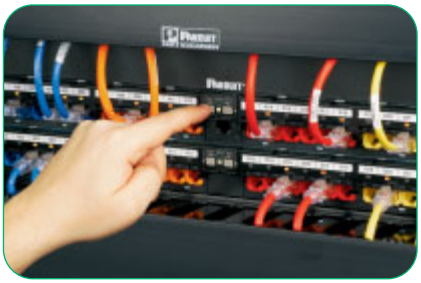
A. System Overview
B. Copper Systems
C. Fiber Optic Systems
D. Power over Ethernet
E. Zone Cabling
F. Wireless
G. Outlets
H. Media Distribution
I. Physical Infrastructure Management
J. Overhead & Underfloor Routing
K. Surface Raceway
L. Cabinets, Racks & Cable Management
M. Grounding & Bonding
N. Industrial
O. Labeling & Identification
P. Cable Management Accessories
Q. Index

NOTES

NEW!

PHYSICAL INFRASTRUCTURE MANAGEMENT SYSTEM

As networks continue to grow, so do the demands placed upon them. Today, networks are the backbone of organizations that automate business operations and processes, provide security, and deliver greater service to customers. As such, management, maintenance, and monitoring of the network have taken on new levels of importance – requiring integrated hardware and software applications to ensure security, performance, and reliability from the data center to the entire enterprise.



Front View



Rear View

- **Provide real-time information of network status and ensure connectivity**
- **Facilitate planning, implementation, and documentation of connectivity moves, adds, or changes**
- **Monitor and alert administrators of any patch field changes or potential security risks**
- **Provide greater accessibility via web-based management system**
- **Interface with third-party network management system programs, help desk applications, and other enterprise systems**

PANDUIT offers the new *PANVIEW iQ*™ System for on-site and remote management of networks through intelligent asset identification and tracking of the physical layer. The revolutionary design of the *PANVIEW iQ*™ Patch Panels and Intelligent Modules eliminate stand alone scanner units, installation complexity, and other hardware which consumes valuable rack space.

PATENTED TECHNOLOGY!

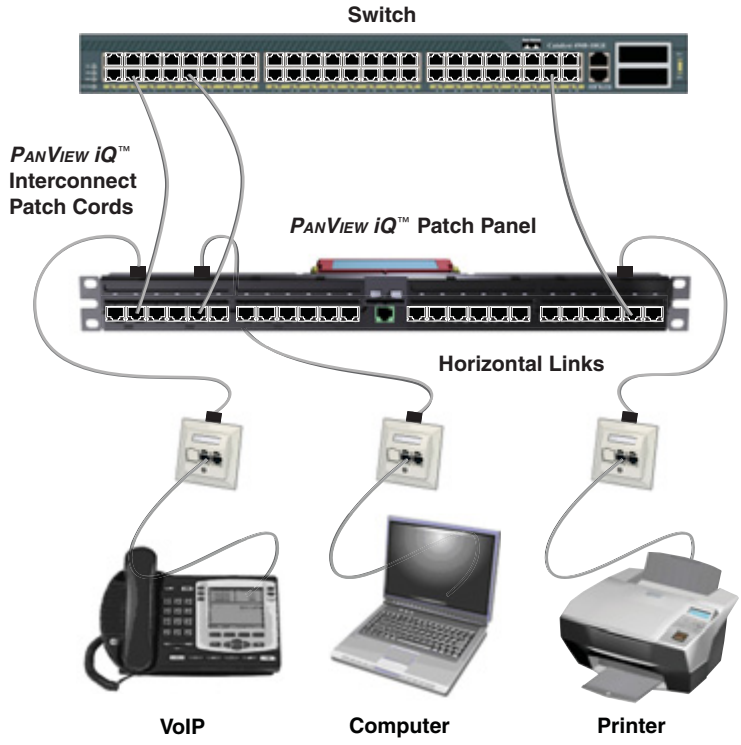
The new *PANVIEW iQ*™ System supports interconnect configurations that ensure connectivity between a network switch and monitored *PANVIEW iQ*™ Patch Panels, delivering enhanced port security. This configuration is particularly beneficial in data center applications where rack space optimization is critical. *PANVIEW iQ*™ can also support cross-connect configurations to implement a protected patch field where each switch and server port is represented via a port on a *PANVIEW iQ*™ Patch Panel.

PANDUIT Laboratories is committed to advancing physical infrastructure management system technology to continually improve reliability, availability, and security of monitored network infrastructure elements.

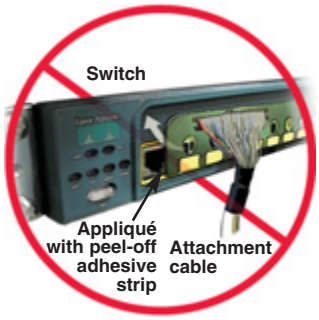
Additional information on the new *PANVIEW iQ*™ System can be found in the solutions brochure SA-PVCB16 and on the *PANDUIT* website at http://www.panduit.com/pim.

REVOLUTIONARY!

PANVIEW iQ™ Interconnect Solution for the Enterprise

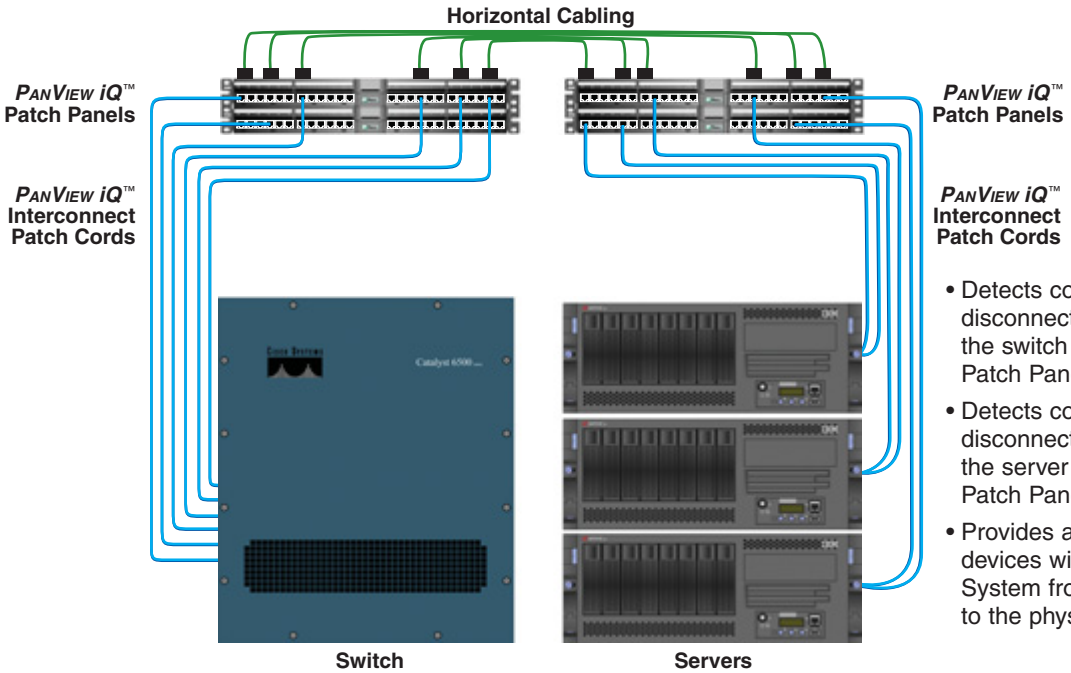


- Eliminates the need for scanner units and the rack spaces that these units occupy
- Eliminates the need for attachment cables and stick-on strips which mount to switches

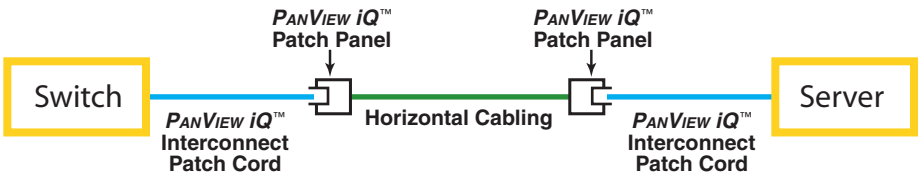


- Innovative new provisioning port allows guided patching from PANVIEW iQ™ Patch Panel to designated switch ports
- Detects patch cord connections/ disconnections made between the switch and PANVIEW iQ™ Patch Panels

PANVIEW iQ™ Interconnect Solution for the Data Center

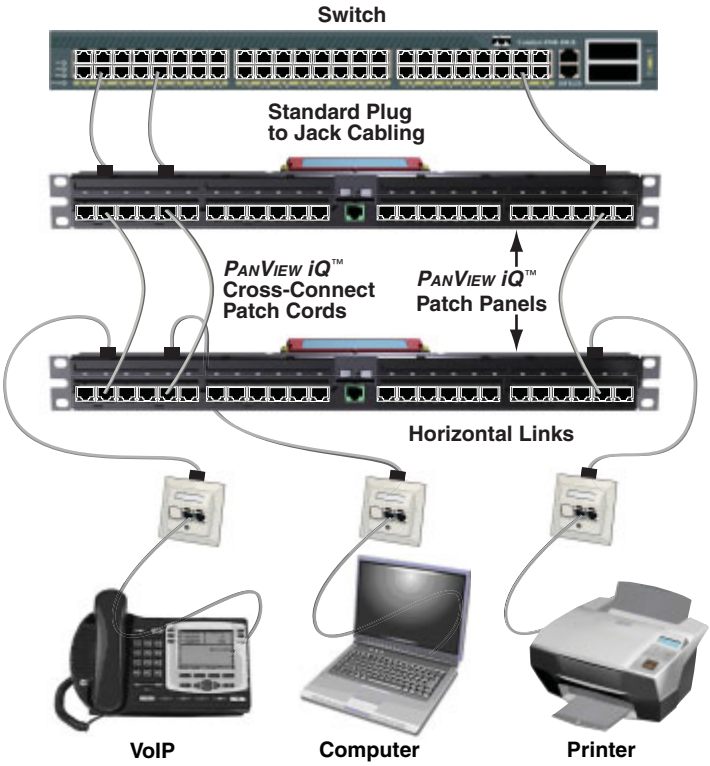


- Detects connections and disconnections made between the switch and PANVIEW iQ™ Patch Panels
- Detects connections and disconnections made between the server and PANVIEW iQ™ Patch Panels
- Provides asset tracking of devices with the PANVIEW iQ™ System from the logical layer to the physical layer



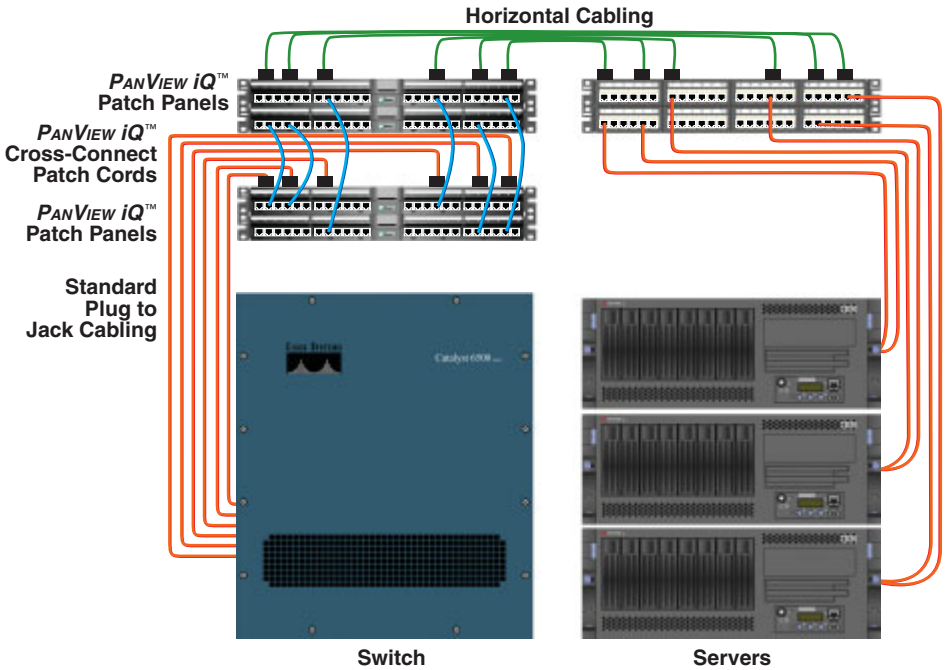
PanView iQ™ Cross-Connect Solution for the Enterprise

NEW!

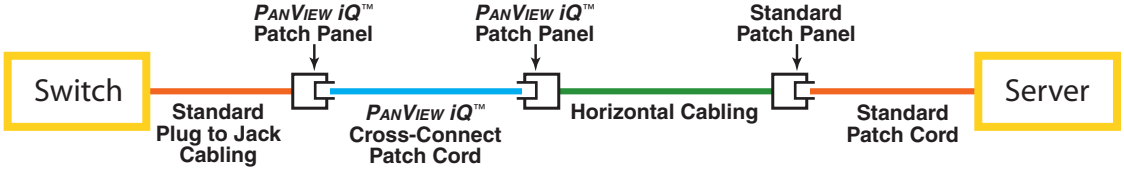


- Provides asset tracking of devices with the *PanView iQ*™ System from the logical layer to the physical layer
- *PanView iQ*™ Patch Panels will confirm: double-ended connections (both ends connected), and single-ended connections (remote end disconnected)
- The *PanView iQ*™ System can automatically map the cross-connect patch field and monitor all connections for continuous security. The system also guides moves, adds, and changes

PanView iQ™ Cross-Connect Solution for the Data Center

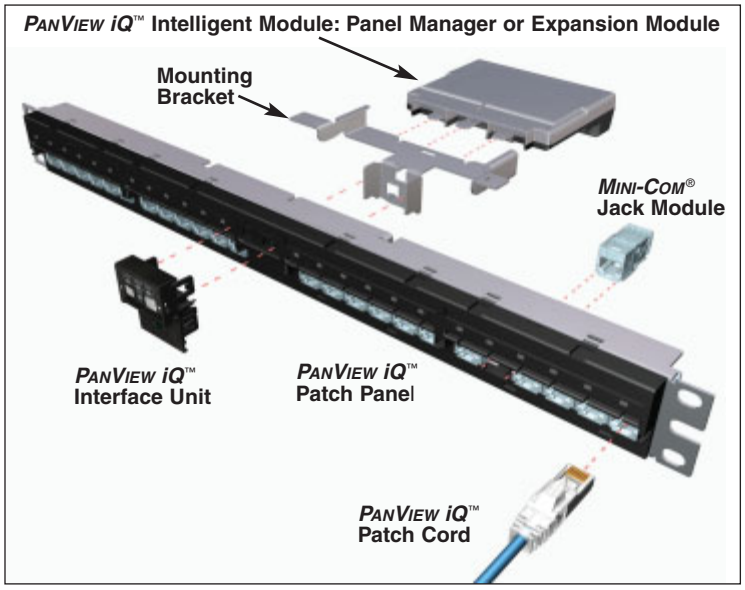


- Prevents damage to switch and server ports by creating protected patch field between *PanView iQ*™ Patch Panels. Each switch and server port is represented at the patch panel level
- *PanView iQ*™ Cross-Connect Patch Cords guarantee switch to server traceability to support critical moves, adds, and changes
- *PanView iQ*™ Patch Panels detect and send notifications of connect and disconnect status for event recording and security purposes



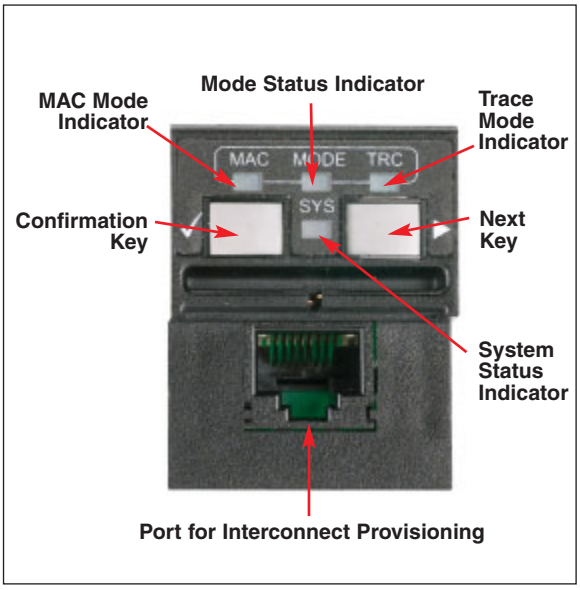
PanView iQ™ Hardware

PanView iQ™ Hardware Exploded View



PanView iQ™ Intelligent Module is supplied with the matching interface unit.

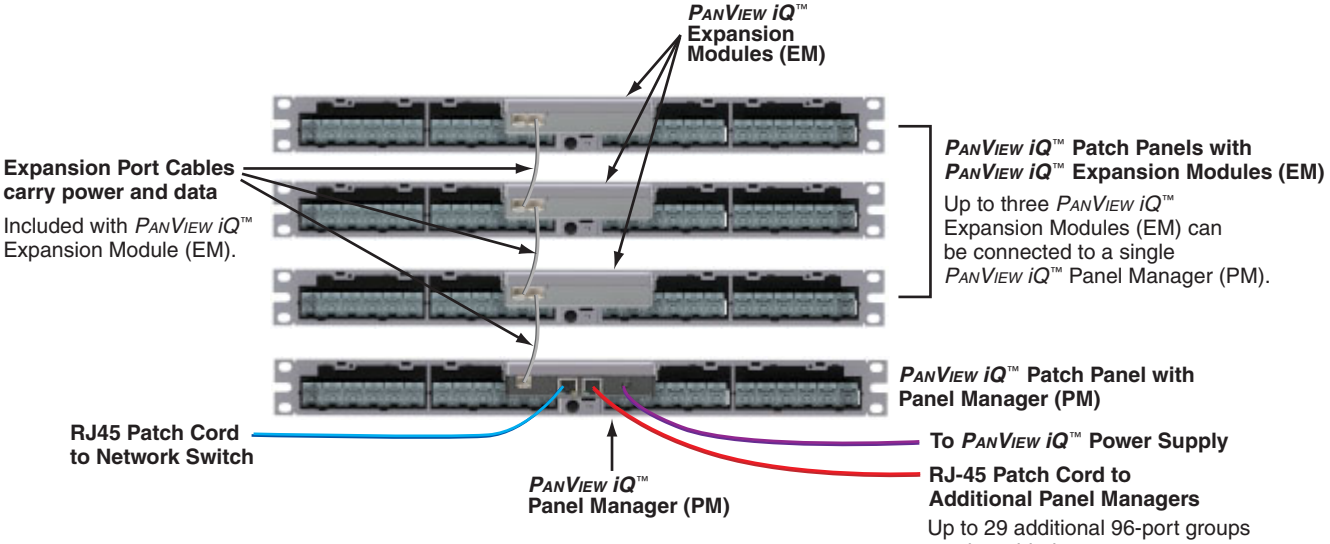
PanView iQ™ Interface Unit



Interface unit shown for *PanView iQ*™ Panel Manager (PM). Interface unit for *PanView iQ*™ Expansion Manager (EM) does not contain provisioning port.

Recommended *PanView iQ*™ 96-Port Configuration (Rear View)

This recommended 96-port configuration delivers optimum efficiency and scalability for large installations.



Physical Infrastructure Management System Roadmap



1 *PanView iQ*™ Intelligent Modules (page I.6)



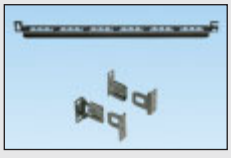
2 *PanView iQ*™ Patch Panels (page I.6)



3 *PanView iQ*™ Power Supply (page I.7)



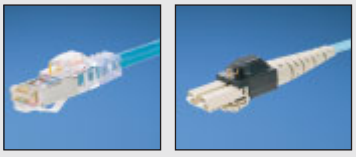
4 Strain Relief Bars (page B.61)



5 *Physical Infrastructure Manager*™ Software (page I.7)



6 *PanView*™ *iQ* Copper and Fiber Patch Cords (page I.8)



7 Horizontal Cable Managers (page L.27)



8 *Ultimate ID*® Labels (pages O.8 and O.15)



NEW! PANVIEW iQ™ Patch Panels

PANVIEW iQ™ Patch Panels revolutionize intelligent physical infrastructure management by providing a modular and scalable approach to meet the demands of enterprise and data center installations. Standard copper and fiber cabling is used for all terminations onto the back of these panels while unique *PANVIEW iQ*™ Patch Cords are used for cross-connect or interconnect installations.

- Mount to standard EIA 19" rack or 23" racks with optional extender bracket on page L.33
- Accommodates intelligent modules that mount in the rear and utilize no additional rack space (zero RU)
- Accepts all *MINI-COM*® UTP, STP, and LC Fiber Optic Modules
- Accepts a *PANVIEW iQ*™ Interface Unit to provide patch cord tracing and provisioning of switch ports with *PANVIEW iQ*™ Interconnect Patch Cords or patch field mapping with *PANVIEW iQ*™ Cross-Connect Patch Cords



PVQ-MIQAPU24



PVQ-MIQPU24



PVQ-MIQPS96F

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
Angled *PANVIEW iQ*™ Patch Panels				
PVQ-MIQAPU24	24-port unpopulated angled UTP modular intelligent module ready patch panel.	1	1	10
PVQ-MIQAPS24	24-port unpopulated angled STP modular intelligent module ready patch panel.	1	1	10
Flat *PANVIEW iQ*™ Patch Panels				
PVQ-MIQPU24	24-port unpopulated UTP modular intelligent module ready patch panel.	1	1	10
PVQ-MIQPS24	24-port unpopulated STP modular intelligent module ready patch panel.	1	1	10
***PANVIEW iQ*™ Hardware Kit**				
PVQ-MIQPS96F	For standard configurations, this 96-port modular intelligent panel kit includes four flat *PANVIEW iQ*™ Patch Panels (PVQ-MIQPU24), one *PANVIEW iQ*™ Panel Manager with interface unit, and three *PANVIEW iQ*™ Expansion Modules with expansion port cables and interface units. Also includes one 1.5' (0.5m) RJ45 patch cord for connection to network switch or additional daisy-chained *PANVIEW iQ*™ Panel Managers. (*Power supply, PANVIEW iQ*™ *Patch Cords and MINI-COM® Modules are not included and must be purchased separately.)* [PVQ-MIQPS96A will be released as an angled kit. See website for availability at www.panduit.com/pim.]	4	1	0

^One rack space = 1.75" (44.45mm).

PANVIEW iQ™ Panel Manager requires proper country specific power supply (PVQ-PS12VDC-S for North America, PVQ-PS12VDC-E for Europe, or PVQ-PS12VDC-U for United Kingdom) which must be ordered separately.

NEW! PANVIEW iQ™ Intelligent Modules

PANVIEW iQ™ Intelligent Modules enable the *PANVIEW iQ*™ Patch Panels to sense connections and disconnections from each port and relay status information to the *PHYSICAL INFRASTRUCTURE MANAGER*™ (PIM) database. The intelligent modules also accept trace mode and MAC commands to provide guidance via the *PANVIEW iQ*™ Interface Unit and Patch Panel LEDs.

- Provides manageability for a *PANVIEW iQ*™ Patch Panel
- Eliminates the need for additional rack space by attaching directly to the back of a *PANVIEW iQ*™ Patch Panel
- Enables quick addition, removal, or replacement of intelligent modules to add management capabilities
- Adapts to either cross-connect or interconnect installations
- The intelligent panel manager (PM) module provides networking interface, power connection and expansion port connections
- The intelligent expansion module (EM) is a slave to the PM and receives all power and data signals through the expansion port. Three EMs can be connected to one PM



PVQ-PM



PVQ-EM

Part Number	Part Description	Std. Pkg. Qty.
PVQ-PM	Panel manager (includes mounting bracket, 1.5' (0.5m) RJ45 patch cord, and interface unit).	1
PVQ-EM	Expansion module (includes mounting bracket, expansion port cable, and interface unit).	1

PANVIEW iQ™ Panel Manager requires proper country specific power supply (PVQ-PS12VDC-S for North America, PVQ-PS12VDC-E for Europe, or PVQ-PS12VDC-U for United Kingdom) which must be ordered separately.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Component Labels for *PANVIEW iQ*™ Patch Panels



Suggested Label Solutions for TIA/EIA-606-A Compliance			
Patch Panel Part Number	Laser/Ink Jet Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
All Patch Panels on Page I.8	UILJ4	UILS8BW	UILS8BW

For complete *ULTIMATE ID*® Labeling Solutions and product information, reference charts on pages O.8 and O.15.

PANVIEW iQ™ Power Supply

- Provides 12 volts of regulated power
- One power supply required per panel manager module
- Offers flexible placement inside of rack
- 5 feet (1.5m) cord length



Part Number	Part Description	Std. Pkg. Qty.
PVQ-PS12VDC-S	30W power supply for North America.	1
PVQ-PS12VDC-E	30W power supply for Europe.	1
PVQ-PS12VDC-U	30W power supply for UK.	1

PHYSICAL INFRASTRUCTURE MANAGER™ Software

NEW!

- Supports the *PANVIEW iQ*™ System
- Provides automated documentation of network patch field connectivity
- Provides real-time notification of all changes in physical layer patch field
- Documents and assigns moves, adds, and changes for planned configuration changes
- Utilizes a web-based graphical user interface that is globally accessible
- Allows integration between third-party programs via the *PANDUIT* Application Programming Interface (API) e.g. HP OpenView Network Node Manager^

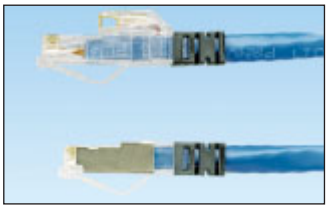


Part Number	Part Description	Std. Pkg. Qty.
PIMS-MEDIA	Software user manual with *PHYSICAL INFRASTRUCTURE MANAGER SOFTWARE*™ CD and support tools.	1
PIMS-100EL	Endpoint license for 100 intelligent links.	1
PIMS-1KEL	Endpoint license for 1000 intelligent links.	1
PIMS-MA-B1	Software maintenance agreement, basic, 1-year.	1

^HP, OpenView, and Network Node Manager are registered trademarks of Hewlett-Packard Development Company, L.P.

NEW! PANVIEW iQ™ Patch Cords

- PANVIEW iQ™ Interconnect Patch Cords support connectivity from non PANVIEW iQ™ enabled ports (e.g., switches, servers, etc) to a single PANVIEW iQ™ Panel
- PANVIEW iQ™ Cross-Connect Patch Cords manage and map the patch field between two PANVIEW iQ™ Patch Panels
- All PANVIEW iQ™ Patch Cords permit PANVIEW iQ™ Panels to detect single-ended connections



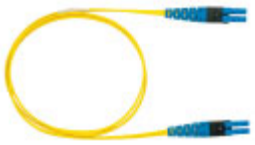
PVQ-BIU6C3BU



PVUTPSPC*BBUY



PVSTP6X*MBBU



PVF9L10-10M*Y

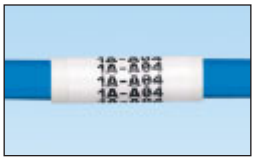
Part Number	Part Description	Length^ Ft.	Length^ m	Std. Pkg. Qty.	Std. Ctn. Qty.
Interconnect Patch Cords					
PVQ-BIU6C3BU	Category 6 UTP interconnect patch cord for use with PANVIEW iQ™ patch panel, CM rated.	3	—	1	10
PVQ-BIU6L3MBU	Category 6 UTP interconnect patch cord for use with PANVIEW iQ™ patch panel, LSZH rated.	—	1	1	10

^Additional lengths available: PVQ-BIU6C3BU also available in lengths 5, 7, 10 and 14 feet.
PVQ-BIU6L3MBU also available in lengths 1m, 2m, 5m, and 10m.
Consult website at www.panduit.com/pim for additional colors and lengths.

Part Number	Part Description	Length^ Ft.	Length^ m	Std. Pkg. Qty.	Std. Ctn. Qty.
Cross-Connect Patch Cords					
PVUTPSPC3BBUY	Category 6 UTP patch cord for use with modular patch panel.	3	—	1	10
PVUTPSPC1MBBUY	Category 6 UTP patch cord for use with modular patch panel.	—	1	1	10
PVSTP6X1MBBU	Category 6A, STP modular 10GIG™ Patch Cord.	—	1	1	10
PVUTP6X1MBBU	Category 6A, UTP modular 10GIG™ Patch Cord.	—	1	1	10
PVF9L10-10M0.5Y	Singlemode LSZH LC-LC patch cord.	—	1	1	10
PVFXL10-10M0.5Y	Multimode LSZH OM3 LC-LC patch cord.	—	1	1	10

^Additional lengths available: PVUTPSPC3BBUY also available in lengths of 5, 7, 9, 14 and 20 feet.
PVUTPSPC1MBBUY also available in lengths of 2, 3, 5, 7 and 10 meters. PVSTP6X1MBBU also available in lengths of 2, 3, 5 and 10 meters. PVF9L10-10M0.5Y also available in 1/2 meter increments up to 10 meters.
PVFXL10-10M0.5Y also available in 1/2 meter increments up to 10 meters.
Contact *PANDUIT* Customer Service for lead times.
Consult website at www.panduit.com/pim for additional colors and lengths.

Cable Labels for PANVIEW iQ™ Patch Cords



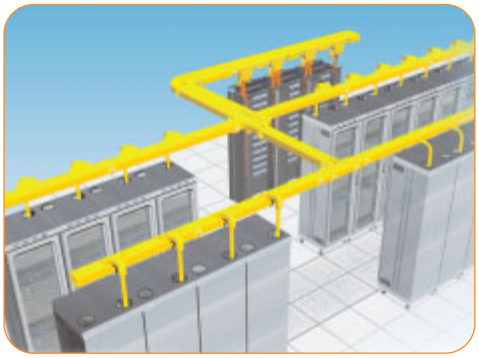
Suggested Label Solutions for TIA/EIA-606-A Compliance				
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	PANTHER™ LS8E Hand-Held Printer Label	COUGAR™ LS9 Hand-Held Printer Label
All Patch Cords on Page I.8	**S100X150YAJ**	**S100X150VATY**	**S100X150VAC**	**T100X000CBC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

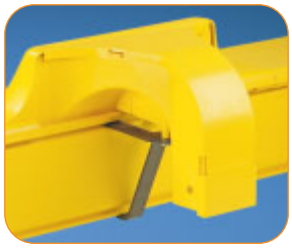
FIBERRUNNER® ROUTING SYSTEMS

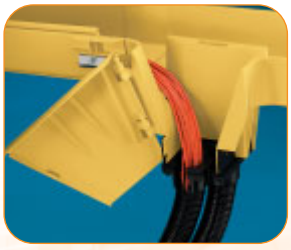
PANDUIT provides innovative solutions for routing fiber optic and high performance copper cabling to and between equipment racks within a data center, telecommunications room, or service provider facility. Routing products such as the FIBERRUNNER® Routing System are critical factors in your ability to quickly install, easily implement moves, adds, and changes, and maintain the integrity of your fiber and copper cabling plant in order to maximize long-term performance.









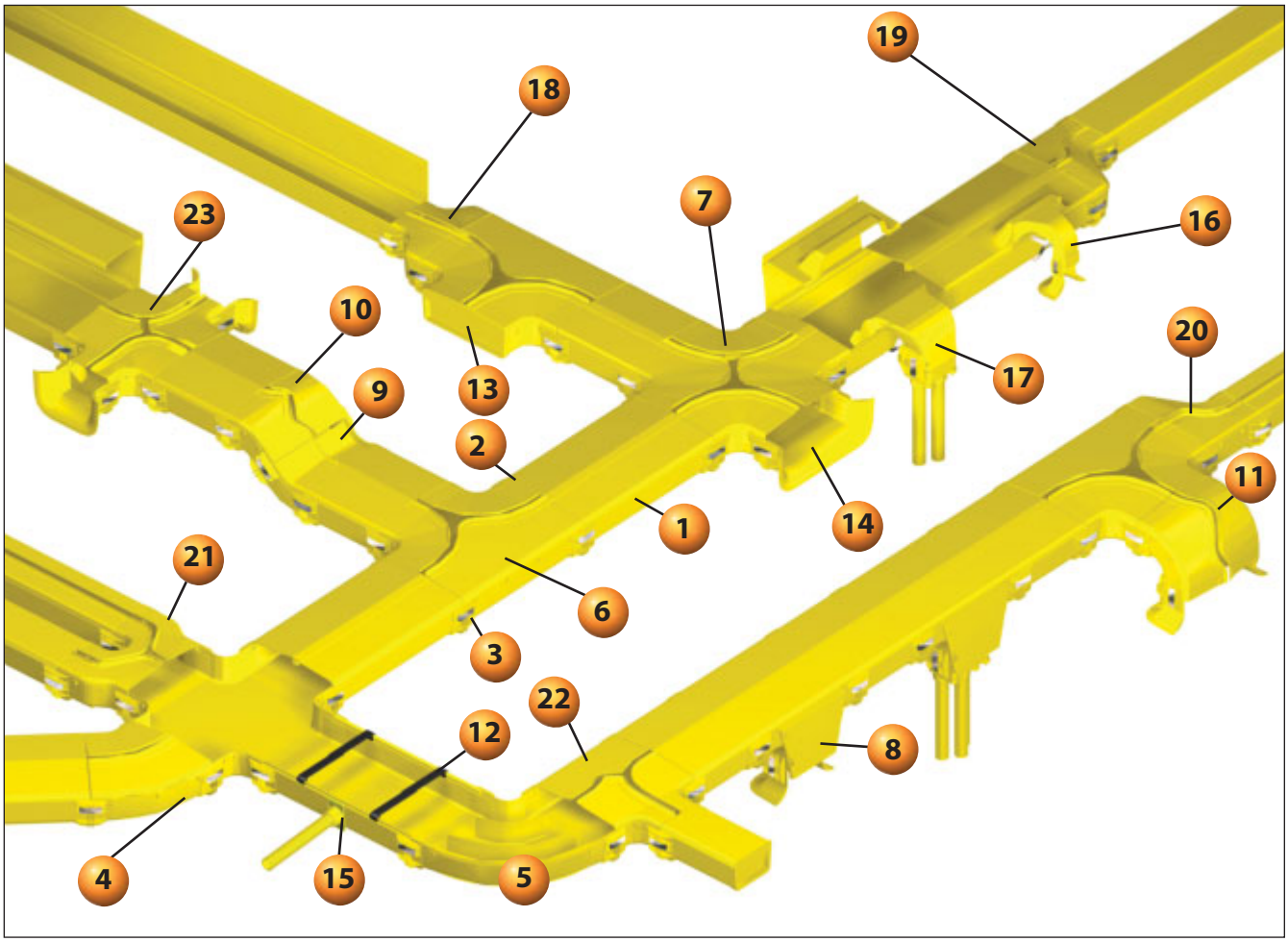


- **Robust, large capacity 12x4 and 6x4 systems to handle large cable counts; 4x4 and 2x2 systems for use with smaller cable counts**
- **Hinged channel cover and split fitting covers protect cabling and provide easy access for future cabling revisions and additions**
- ***QUIKLOCK*™ assembly features eliminate or minimize the need for tools to assemble the system; *QUIKLOCK*™ Couplers and Brackets require less than five seconds to mechanically secure components**
- **Fittings provide minimum 2" (50.8mm) bend radius to protect against signal loss due to excessive cable bends**
- **Multiple spillout options provide versatility to make transitions to various equipment and rack configurations**
- **Compatible with *PANDUIT*® *FIBER-DUCT*™ 4x4 and 2x2 Routing Systems, cable management, and racks**

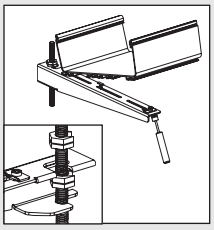
The FIBERRUNNER® 12x4, 6x4, 4x4 and 2x2 Routing Systems are comprised of channel, couplers, fittings and brackets designed to segregate, route, and protect fiber optic and high performance copper cabling.

As part of the *PANDUIT* Data Center Solution, FIBERRUNNER® Routing Systems offers secure, reliable system integration and risk management within the physical infrastructure.

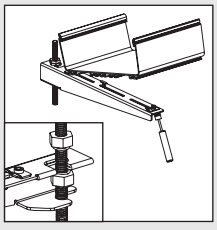
12x4 Routing System Roadmap



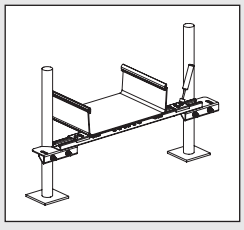
12x4 *FiberRunner*® Mounting Brackets



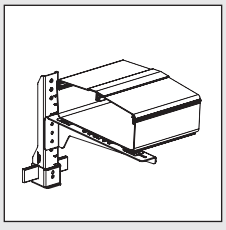
FR12TRBE58 – Existing Threaded Rod *QuikLock*™ Bracket (page J.12)



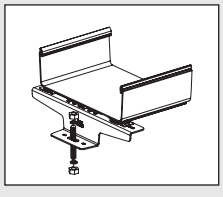
FR12TRBN58 – New Threaded Rod *QuikLock*™ Bracket (page J.12)



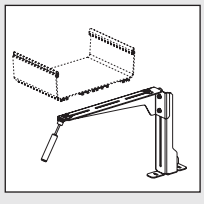
FR12USB – Underfloor Pedestal *QuikLock*™ Bracket (page J.12)



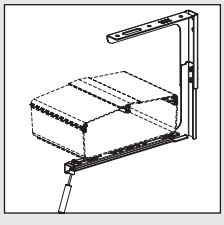
FR12ALB – Adjustable Ladder *QuikLock*™ Bracket (page J.12)



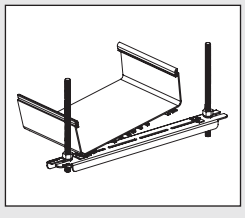
FR12CS58 – Center Support *QuikLock*™ Bracket (page J.12)



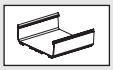
FR12ACAB – Adjustable Cabinet *QuikLock*™ Bracket (page J.13)



FR12ACB58 – Top Support Adjustable "C" *QuikLock*™ Bracket (page J.12)



FR12TB58 – Trapeze *QuikLock*™ Bracket (page J.12)



1 **FR12X4**6 – 12x4 *FiberRunner*® Channel (page J.4)**



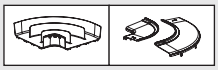
2 **FRHC12**6 – 12x4 Snap-On Hinged Cover (page J.4)**



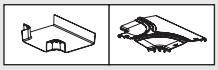
3 **FRBC12X4** – 12x4 *QuikLock*™ Coupler (page J.5)**



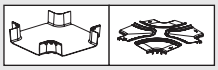
4 **FRH4512X4** – 12x4 Horizontal 45° Angle Fitting and FRH45SC12** – Optional Split Cover (page J.5)**



5 **FRRA12X4** – 12x4 Horizontal Right Angle Fitting and FRRASC12** Optional Split Cover (page J.5)**



6 **FRT12X4** – 12x4 Horizontal Tee Fitting and FRTSC12** – Optional Split Cover (page J.6)**



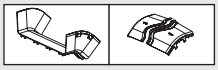
7 **FRFWC12X4** – 12x4 4-Way Cross Fitting and FRFWCSC12** – Optional Split Cover (page J.6)**



8 **FRVT12X4** – 12x4 Vertical Tee (page J.9)**



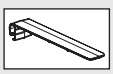
9 **FRIV4512X4** – 12x4 Inside Vertical 45° Angle Fitting (page J.7)**



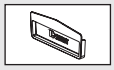
10 **FROV4512X4** – 12x4 Outside Vertical 45° Angle Fitting and FROV45SC12** – Optional Split Cover (page J.7)**



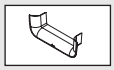
11 **FROVRA12X4** – 12x4 Outside Vertical Right Angle Fitting and FROVRASC12** Optional Split Cover (page J.7)**



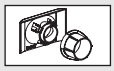
12 **FRCR12BL-X – Cable Retainer for 12x4 System (page J.4)**



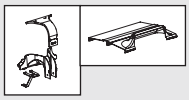
13 **FREC12X4** – 12x4 End Cap Fitting (page J.7)**



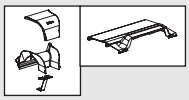
14 **FRTR12X4** – 3-Sided BRC Trumpet Spillout for 12x4 Exit (page J.11)**



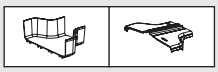
15 **FR1.5IDE** – 1-Port Spillout Side Exit to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.11)**



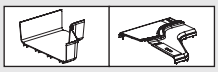
16 **FRSP** – Spill-Over Junction with 2x2 Exit and FRSP12C** – Optional Cover for 12x4 System (page J.9)**



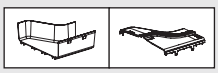
17 **FRSP4** – Spill-Over Junction with 4x4 Exit and FRSP412C** Optional Cover for 12x4 System (page J.10)**



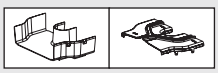
18 **FRRF126** – 12x4 to 6x4 *FiberRunner*® Reducer Fitting and FRRF126SC** – Optional Split Cover (page J.7)**



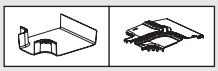
19 **FRRF126L** – 12x4 to 6x4 Transition Left Reducer Fitting and FRRF126LSC** – Optional Split Cover (page J.8)**



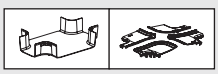
20 **FRRF126R** – 12x4 to 6x4 Transition Right Reducer Fitting and FRRF126RSC** – Optional Split Cover (page J.8)**



21 **FRY126** – Y-Reducer from 12x4 to two 6x4 Exit and FRY126SC** – Optional Split Cover (page J.8)**



22 **FRT12X4W6** – 12x4 Horizontal Tee with 6x4 Exit and FRTSC12W6** – Optional Split Cover (page J.6)**



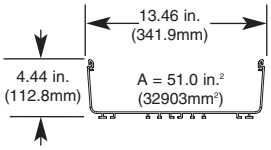
23 **FRFWC12X4W6** – 12x4 4-Way Cross Fitting with 6x4 Exits and FRFWCSC12W6** – Optional Split Cover (page J.6)**

**Available colors include: YL (Yellow), OR (Orange), and BL (Black).

c UL us LISTED 12x4 *FiberRunner*® Routing System

Cable Fills for 12x4 *FiberRunner*® Routing System





The maximum amounts may vary according to the cable fill installation methods, straightness of cables, etc.

12x4 *FiberRunner*® Cable Routing System							
Fill/Pile Up	Internal Area in²	Diameter .063" 1.6mm	Diameter .079" 2.0mm	Diameter .118" 3.0mm	Category 6A Diameter .298" 7.57mm	Fiber Optic Ribbon Interconnect Cable Diameter .205" 5.20mm	Category 6 Diameter .25" 6.35mm
40% Fill							
2" Pile Up	25.7	3299	2111	938	147	311	209
3" Pile Up	38.8	4980	3187	1417	223	470	316
4" Pile Up	51	6546	4189	1862	292	618	416
50% Fill							
2" Pile Up	25.7	4124	2639	1173	184	389	262
3" Pile Up	38.8	6225	3984	1771	278	588	395
4" Pile Up	51	8183	5237	2327	366	773	519
60% Fill							
2" Pile Up	25.7	4948	3167	1407	221	467	314
3" Pile Up	38.8	7470	4781	2125	334	705	474
4" Pile Up	51	9819	6284	2793	439	927	623

Channel cutting instructions: For optimum results, use a miter box and saw. For larger quantities use a plastic cutting saw blade for clean, burr-free cuts. Recommend: Carbide 80T and 100T; .090" thickness, .125" kerf.

12x4 *FiberRunner*® Routing System – Channel and Cover

- Robust, large capacity 12x4 system ideal for use with large cable counts
- Multiple spillout options provide versatility to mate to various equipment and rack configurations
- *QuikLock*™ Couplers and Brackets reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Compatible with all sizes of *PANDUIT*® *FiberRunner*® and *PANDUIT*® *Fiber-Duct*™ Routing Systems, cable management, and racks
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS) Level 3



FR12X4



FRHC12



FRCR12BL-X

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
12x4 *FiberRunner*® Channel			
FR12X4YL6	Used to carry the cables horizontally throughout the system. Accepts cable retainers FRCR12BL-X or hinged cover FRHC12YL6. Use *QuikLock*™ Coupler FRBC12X4YL to attach channel and/or fittings.	6	12
12x4 Snap-On Hinged Cover			
FRHC12YL6	Optional snap-on hinged cover for channel FR12X4YL6. Can be folded down for height restricted areas.	6	12
Cable Retainer for 12x4 System			
FRCR12BL-X	Cable retainer holds cable in the channel when cover is not used. Install anywhere on channel, near the coupler or every 18" (457mm). Black color only.	10	100

For other colors replace YL (Yellow) with OR (Orange) or BL (Black).
Order number of feet required, in multiples of standard 6' length increments.
Order number of cable retainers required, in multiples of Standard Package Quantity.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

12x4 *FIBERRUNNER*® *QUIKLOCK*™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FRBC12X4YL	Pre-assembled coupler quickly joins two sections of channel and/or fittings. Mechanically attaches without tightening bolts. Bolts release using 3/8" nut driver to allow coupler to be removed if necessary.	1	5

For a bulk package of 10 couplers, order FRBC12X4YL-X.
For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

12x4 *FIBERRUNNER*® System Fittings

- Minimum 2" (50.8mm) bend radius control fittings
- Protect against signal loss and performance degradation
- Assemble using FRBC *QUIKLOCK*™ Couplers
- Optional split covers snap onto each fitting
- Covers feature 3/4" (19mm) gap to allow cable to be laid in



FRRA12X4



FRRASC12



FRH4512X4



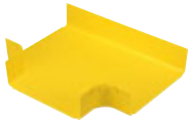
FRH45SC12

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
12x4 Horizontal Right Angle Fitting				
FRRA12X4YL	Attaches to 12x4 channel and/or fitting to create a 90° horizontal turn from a straight horizontal run. Inside divider walls manage cables routed around horizontal right angles. Accepts optional split cover FRRASC12YL.	(2 pcs.) FRBC12X4YL	1	—
Split Cover for 12x4 Horizontal Right Angle Fitting				
FRRASC12YL	Optional split cover for the horizontal right angle fitting FRRA12X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
12x4 Horizontal 45° Angle Fitting				
FRH4512X4YL	Attaches to 12x4 channel and/or fitting to create a 45° horizontal turn from a straight horizontal run. Accepts optional split cover FRH45SC12YL.	(2 pcs.) FRBC12X4YL	1	—
Split Cover for 12x4 Horizontal 45° Angle Fitting				
FRH45SC12YL	Optional split cover for the horizontal 45° angle fitting FRH4512X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or removes cables.	—	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Table continues on page J.6

12x4 *FiberRunner*® System Fittings (continued)



FRT12X4



FRTSC12



FRT12X4W6



FRTSC12W6



FRFWC12X4



FRFWCSC12



FRFWC12X4W6



FRFWCSC12W6

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
12x4 Horizontal Tee Fitting				
FRT12X4YL	Attaches to 12x4 channel and/or fittings to create a 90° horizontal branch with a 12x4 exit from straight horizontal run. Accepts optional split cover FRTSC12YL.	(3 pcs.) FRBC12X4YL	1	—
Split Cover for 12x4 Horizontal Tee Fitting				
FRTSC12YL	Optional split cover for the horizontal tee fitting FRT12X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
12x4 Horizontal Tee with 6x4 Exit				
FRT12X4W6YL	Attaches to 12x4 channel and/or fittings to create a 90° horizontal branch with a 6x4 exit from straight horizontal run. Accepts optional split cover FRTSC12W6YL.	(2 pcs.) FRBC12X4YL (1 pc.) FRBC6X4YL	1	—
Split Cover for 12x4 Horizontal Tee with 6x4 Exit				
FRTSC12W6YL	Optional split cover for the horizontal tee with 6x4 exit fitting FRT12X4W6YL. Snap-on feature allows cover to be installed and removed without tools. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
12x4 Four Way Cross Fitting				
FRFWC12X4YL	Attaches to 12x4 channel and/or fittings to create a horizontal four way cross intersection with two 12x4 exits. Accepts optional split cover FRFWCSC12YL.	(4 pcs.) FRBC12X4YL	1	—
Split Cover for 12x4 Four Way Cross Fitting				
FRFWCSC12YL	Optional split cover for the four way cross fitting FRFWC12X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
12x4 Four Way Cross Fitting with 6x4 Exits				
FRFWC12X4W6YL	Attaches to 12x4 channel and/or fittings to create a horizontal four way cross intersection with two 6x4 exits. Accepts optional split cover FRFWCSC12W6YL.	(2 pcs.) FRBC12X4YL (2 pcs.) FRBC6X4YL	1	—
Split Cover for 12x4 Four Way Cross Fitting with 6x4 Exits				
FRFWCSC12W6YL	Optional split cover for the four way cross fitting FRFWC12X4W6YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

12x4 *FiberRunner*® System Fittings (continued)



FREC12X4



FRIV4512X4



FROV4512X4



FROV45SC12



FROVRA12X4



FROVRASC12



FRRF126



FRRF126SC

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
12x4 End Cap Fitting				
FREC12X4YL	Used for closing off open ends of the channel or fittings. No coupler required. Push-on installation.	—	1	5
12x4 Inside Vertical 45° Angle Fitting				
FRIV4512X4YL	Attaches to 12x4 channel and/or fitting to create a 45° upward angle from a straight horizontal run. Used with outside vertical 45° angle fitting FROV4512X4YL to change level of a straight horizontal run. Includes split cover.	(2 pcs.) FRBC12X4YL	1	—
12x4 Outside Vertical 45° Angle Fitting				
FROV4512X4YL	Attaches to 12x4 channel and/or fitting to create a 45° downward angle from a straight horizontal run. Used with inside vertical 45° angle fitting FRIV4512X4YL to change level of a horizontal run. Accepts optional split cover FROV45SC12YL.	(2 pcs.) FRBC12X4YL	1	—
Split Cover for 12x4 Outside Vertical 45° Angle Fitting				
FROV45SC12YL	Optional split cover for the outside vertical 45° angle fitting FROV4512X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
12x4 Outside Vertical Right Angle Fitting				
FROVRA12X4YL	Attaches to 12x4 channel and/or fittings to create a 90° vertical turn down from a straight horizontal run. Accepts optional split cover FROVRASC12YL.	(2 pcs.) FRBC12X4YL	1	—
Split Cover for 12x4 Outside Vertical Right Angle Fitting				
FROVRASC12YL	Optional split cover for the outside vertical right angle fitting FROVRA12X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
12x4 to 6x4 *FiberRunner*® Reducer Fitting				
FRRF126YL	Attaches any 12x4 *FiberRunner*® Fitting or Channel to any 6x4 *FiberRunne*® Fitting or Channel. Accepts split cover FRRF126SCYL.	(1 pc.) FRBC12X4YL (1 pc.) FRBC6X4YL	1	—
Split Cover for 12x4 to 6x4 *FiberRunner*® Reducer Fitting				
FRRF126SCYL	Optional split cover for the reducer fitting FRRF126YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Table continues on page J.8

12x4 *FiberRunner*® System Fittings (continued)



FRY126



FRY126SC



FRRF126R



FRRF126RSC



FRRF126L



FRRF126LSC

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
Y-Reducer from 12x4 to Two 6x4 Exits				
FRY126YL	Attaches any 12x4 *FiberRunner*® Fitting or Channel to two 6x4 *FiberRunner*® Channels. Accepts split cover FRY126SCYL.	(1 pc.) FRBC12X4YL (2 pcs.) FRBC6X4YL	1	—
Split Cover for Y-Reducer from 12x4 to Two 6x4 Exits				
FRY126SCYL	Optional split cover for the Y-reducer fitting FRY126YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 11/16" (17.5mm) opening for easy access to add or remove cables.	—	1	5
12x4 to 6x4 Transition Right Reducer Fitting				
FRRF126RYL	Attaches any 12x4 *FiberRunner*® Fitting or Channel to any 6x4 *FiberRunner*® Fitting or Channel while transitioning to the right. Accepts split cover FRRF126RSCYL.	(1 pc.) FRBC12X4YL (1 pc.) FRBC6X4YL	1	—
Split Cover for 12x4 to 6x4 Transition Right Reducer Fitting				
FRRF126RSCYL	Optional split cover for the transition right reducer fitting FRRF126RYL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 1/2" (12.7mm) opening for easy access to add or remove cables.	—	1	5
12x4 to 6x4 Transition Left Reducer Fitting				
FRRF126LYL	Attaches any 12x4 *FiberRunner*® Fitting or Channel to any 6x4 *FiberRunner*® Fitting or Channel while transitioning to the left. Accepts split cover FRRF126LSCYL.	(1 pc.) FRBC12X4YL (1 pc.) FRBC6X4YL	1	—
Split Cover for 12x4 to 6x4 Transition Left Reducer Fitting				
FRRF126LSCYL	Optional split cover for the transition left reducer fitting FRRF126LYL. Snap-on feature allows cover to be installed and removed with no tools required. Creates 1/2" (12.7mm) opening for easy access to add or remove cables.	—	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

12x4 *FiberRunner*® System Spillouts

- Spill-overs allow safe transition from horizontal to vertical runs
- 2" (50.8mm) bend radius control
- Transition to channel, slotted channel, and corrugated loom tubing
- Spill-over junction fittings can be retro-fitted to existing horizontal runs



FRVT12X4



FRTR6X4



FRIDT6X4



FRHD4KT



TRC4HDBL



FRLPR64BL



FRSP



FRSP12C

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
12x4 Vertical Tee				
FRVT12X4YL	Attaches to 12x4 channel and/or fittings to create a 90° vertical drop from a horizontal run. Hinged door included. Requires coupler to attach FRTR6X4YL or FRIDT6X4YL to vertical exit. Accepts optional snap-on cover FRHC12YL6 in conjunction with channel.	(2 pcs.) FRBC12X4YL (1 pc.) FRBC6X4YL	1	—
3-Sided BRC Trumpet Spillout for 6x4 Exit				
FRTR6X4YL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from 6x4 channel, 6x4 horizontal tee fitting, or 6x4 exit on 12x4 vertical tee.	(1 pc.) FRBC6X4YL	1	5
3-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FRIDT6X4YL	Used to route cable into three separate pieces of 1.5" (38mm) diameter split corrugated tubing. Used with FRVT12X4YL or any 6x4 fitting. Securely holds corrugated split tubing to ensure system integrity and easy access to add or remove cables.	(1 pc.) FRBC6X4YL	1	5
4x4 Hinged Duct Vertical Cable Manager Kit				
FRHD4KTYL	Provides secure, accessible route for cables spilling out from vertical tee to rack mounted equipment. Kit includes 6' length of 4x4 capacity hinged duct, 6' length of 4x4 hinged duct cover, one end cap for 4x4 hinged duct, three FZBA1.5X4 adjustable "Z" brackets, an adapter fitting, six WR4-C wire retainers and all required mounting hardware. Attaches directly to 6x4 and 4x4 vertical tee exit or FRLPR64 low profile reducer.	—	1	—
4x4 Hinged Duct Bend Radius Control Trumpet				
TRC4HDBL	Bend radius control trumpet for exiting at the sidewall of 4" wall heights of type H hinged cover wiring duct channels. Maintains 1" (25.4mm) bend radius control. Black color only.	—	1	10
Low Profile Reducer 6x4 to 4x4 for Vertical Tee				
FRLPR64BL	Assembled into the 12x4 vertical tee FRVT12X4YL. The FRLPR64BL allows for the transition to 4x4 *Fiber-Duct*™ Channel with minimal space required. No tools required for assembly. Black color only.	—	1	5
Spill-Over Junction with 2x2 Exit				
FRSPYL	Assembles onto 4x4, 6x4, or 12x4 *FiberRunner*® Channel, spilling over the side into a 2x2 vertical channel, fitting, or corrugated tube. Mounts directly to existing installation with no alteration required. Mounting hardware provided for secure attachment.	—	1	—
Cover for Spill-Over Junction with 2x2 Exit for 12x4 Channel				
FRSP12CYL	Used to fully enclose 12x4 channel in conjunction with the spill-over junction FRSPYL. Cover snaps onto the channel base. Hinged feature allows easy access to add or remove cables.	—	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Table continues on page J.10

12x4 *FiberRunner*® System Spillouts (continued)



FTR2X2



FIDT2X2



FRHD2KT



TRC2HDBL



FRSP4



FRSP412C

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
3-Sided BRC Trumpet Spillout for 2x2 Exit				
FTR2X2YL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from a *FiberRunner*® Spill-Over FRSPYL or from 2x2 *Fiber-Duct*™ Channel.	(1 pc.) FBC2X2YL	1	5
1-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FIDT2X2YL	Used to route cable into one piece of 1.5" (38mm) diameter split corrugated tubing. Used with *FiberRunner*® Spill-Over FRSPYL, 2x2 *Fiber-Duct*™ Fittings, and the 2x2 *FiberRunner*® Hinged Channel. Securely holds split corrugated tubing to ensure system integrity and easy access to add or remove cables.	(1 pc.) FBC2X2YL	1	5
2x2 Hinged Duct Vertical Cable Manager Kit				
FRHD2KTYL	Provides secure, accessible route for cables spilling out from a vertical tee or spill-over junction to rack mounted equipment. Kit includes 6' length of 2x2 *FiberRunner*® Hinged Channel H2X2YL6, 6' length of 2x2 snap-on hinged cover HC2YL6, four adjustable "Z" brackets FZBA1.5X4, one *FiberRunner*® 2x2 End Cap FHDEC2X2YL, six hinged duct 2" wire retainers WR2H-C and all required mounting hardware. Attaches to 2x2 vertical tee exit or spill-over junction with a 2x2 exit with a 2x2 *QuikLock*™ Coupler FBC2X2YL. Also attaches directly to 4x4 or 6x4 vertical tee exits with low profile reducer FRLPR42BL. Yellow and orange colors only.	—	1	—
2x2 *FiberRunner*® Bend Radius Control Trumpet				
TRC2HDBL	Bend radius control trumpet for exiting at the sidewall of 2" wall heights of type H hinged cover wiring duct channels. Maintains 1" (25.4mm) bend radius control. Black color only.	—	1	10
Spill-Over Junction with 4x4 Exit				
FRSP4YL	Assembles onto 4x4, 6x4, or 12x4 *FiberRunner*® Channel, spilling over the side into a 4x4 vertical exit. Requires coupler to attach 4x4 *FiberRunner*® Channel and Fittings to the vertical exit. Mounts directly to existing installation with no alteration required. Mounting hardware provided for secure attachment.	(1 pc.) FRBC4X4YL	1	—
Cover for Spill-Over Junction with 4x4 Exit for 12x4 Channel				
FRSP412CYL	Used to fully enclose the 12x4 channel in conjunction with the spill-over junction FRSP4YL. Cover snaps onto the channel base. Hinged feature allows easy access to add or remove cables.	—	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

12x4 *FiberRunner*® System Spillouts (continued)



FRTR4X4



FRIDT4X4



FR1.5IDE



FRTR12X4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
3-Sided BRC Trumpet Spillout for 4x4 *FiberRunner*® Exit				
FRTR4X4YL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from 4x4 *FiberRunner*® Channel or a 4x4 *FiberRunner*® Horizontal Tee.	(1 pc.) FRBC4X4YL	1	5
2-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FRIDT4X4YL	Used to route cable into one or two pieces of 1.5" (38mm) diameter split corrugated tubing. Requires coupler to be used with 4x4 *FiberRunner*® Fitting. Used with any 4x4 *FiberRunner*® Fitting. Securely holds corrugated split tubing to ensure system integrity and easy access to add or remove cables.	(1 pc.) FRBC4X4YL	1	5
1-Port Spillout Side Exit to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FR1.5IDEYL	Used to route cable into 1.5" (38mm) diameter split corrugated tubing directly through a hole cut in the side wall of the 4x4, 6x4, and 12x4 *FiberRunner*® Channel or 4x4 *Fiber-Duct*™ Channel. Provides 1" (25.4mm) bend radius control at the exit. Securely holds split corrugated tubing to ensure system integrity and easy access to add or remove cables. Includes drilling template.	—	1	5
3-Sided BRC Trumpet Spillout for 12x4 Exit				
FRTR12X4YL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from the 12x4 channel or a 12x4 horizontal tee.	(1 pc.) FRBC12X4YL	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

12x4 *FiberRunner*® Mounting Brackets



FR12TRBE58
FR12TRBE58M



FR12TRBN58
FR12TRBN58M



FR12USB



FR12ALB



FR12CS12
FR12CS58
FR12CS12M
FR12CS58M



FR12ACB12
FR12ACB58
FR12ACB12M
FR12ACB58M



FR12TB12
FR12TB58
FR12TB12M
FR12TB58M

Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Existing Threaded Rod *QuikLock*™ Bracket for 12x4 System				
FR12TRBE58	Used to support the 12x4 system from existing threaded rod installations. Bracket is secured to threaded rod with two split nuts. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	5/8"	1	—
FR12TRBE58M		16mm	1	—
New Threaded Rod *QuikLock*™ Bracket for 12x4 System				
FR12TRBN58	Used to support the 12x4 system from new threaded rod installations. Bracket is secured to threaded rod with two split nuts. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	5/8"	1	—
FR12TRBN58M		16mm	1	—
Underfloor Pedestal *QuikLock*™ Bracket for 12x4 System				
FR12USB	Used to support the 12x4 system by attaching to underfloor pedestals. (Contains all necessary hardware.) Use on pedestals up to 2" in diameter. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	—	1	—
Adjustable Ladder *QuikLock*™ Bracket for 12x4 System				
FR12ALB	Used to support the 12x4 system attaching to any 3/8" (9.5mm) x 1 1/2" (38.1mm) or 3/8" (9.5mm) x 2" (50.8mm) ladder rack rail. Adjustable to nine incremental positions from 4" (101mm) to 12" (305mm) above or below the ladder rack. No threaded rod required. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	—	1	—
Center Support *QuikLock*™ Bracket for 12x4 System				
FR12CS12	Used to support the 12x4 system from below with new threaded rod. Bracket is secured to threaded rod with two nuts. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps. Also can be secured directly to the top of cabinets.	1/2"	1	—
FR12CS58		5/8"	1	—
FR12CS12M		12mm	1	—
FR12CS58M		16mm	1	—
Top Support Adjustable "C" *QuikLock*™ Bracket for 12x4 System				
FR12ACB12	Used to support the 12x4 system from any new threaded rod extending down directly from the ceiling, grid, or ladder rack system. Two position height adjustments to accommodate system with or without hinged cover. Bracket is secured to threaded rod with two nuts. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	1/2"	1	—
FR12ACB58		5/8"	1	—
FR12ACB12M		12mm	1	—
FR12ACB58M		16mm	1	—
Trapeze *QuikLock*™ Bracket for 12x4 System				
FR12TB12	Used to support the 12x4 system by spanning two threaded rod drops. Can be installed from above or below. Bracket is secured to each threaded rod with two nuts. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	1/2"	1	—
FR12TB58		5/8"	1	—
FR12TB12M		12mm	1	—
FR12TB58M		16mm	1	—

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

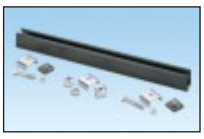
12x4 *FiberRunner*® Mounting Brackets (continued)


FR12ACAB


F2PCLB12
F2PCLB58


FRAFC58

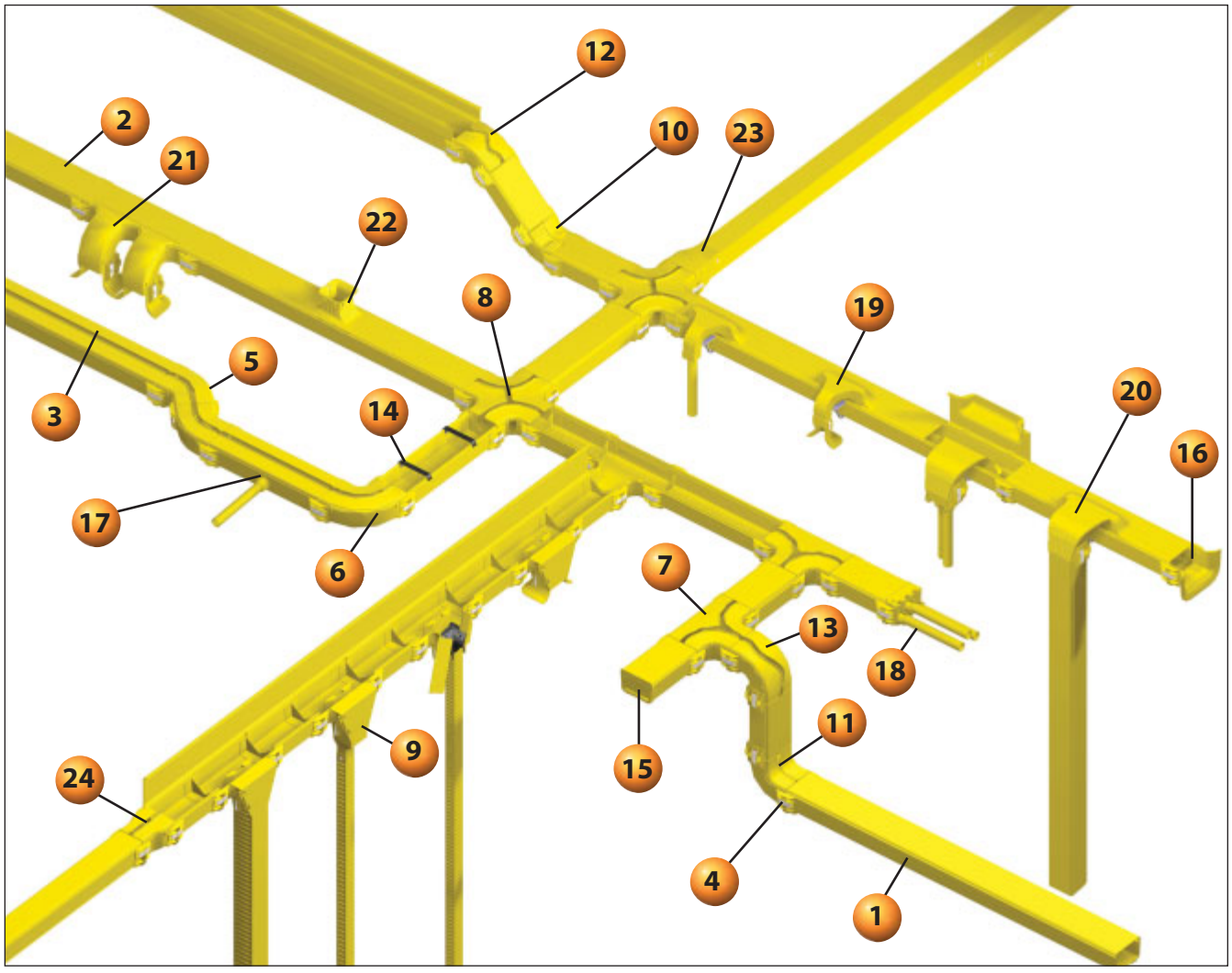

FR12BS-L


FR4PRB58

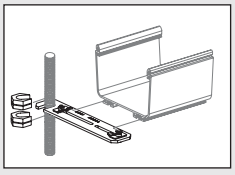

FRTBKT-X

Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Adjustable Cabinet *QuikLock*™ Bracket for 12x4 System				
FR12ACAB	Used to support the 12x4 system, dual 6x4, or dual 4x4 systems attaching to the top of cabinets. Adjustable from 4 1/4" (108mm) to 12" (305mm) allowing runs to be leveled over uneven cabinet heights. Also allows spillouts such as vertical tee to be positioned directly over cable inlets on cabinet tops. Bracket is secured to the cabinet frame with through bolts (not included). The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	—	1	—
Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1 1/2" – 2" Ladder Rack				
F2PCLB12	Two-piece bracket attaches to 3/8" (9.5mm) wide x 1 1/2" (38.1mm) or 3/8" (9.5mm) wide x 2" (50.8mm) ladder rack rail. Bracket halves slide into position and clamp together on the ladder rack rail, which allows for a one-handed assembly of the threaded rod (not included). Contains bracket and hardware for attaching bracket to ladder rack.	1/2"	1	10
F2PCLB58		5/8"	1	10
Two-Piece Framing Clip for Attaching 5/8" Threaded Rod to 2" x 9/16" C-Channel Auxiliary Framing Bars				
FRAFC58	Two-piece framing clip attaches to auxiliary framing bars. Framing clip halves slide into position and interlock on the auxiliary framing bars, allowing easier assembly of the threaded rod to bars. Contains two-piece framing clip and hardware for attaching framing clip to auxiliary framing bars. (5/8" threaded rod not included.)	5/8"	1	10
Self-Tapping Screws for 12x4 Brackets				
FR12BS-L	Self-tapping screws allow selected 12x4 fittings to be fastened directly to mounting brackets for additional support. Screws tap directly into those 12x4 fittings that have plastic bosses. Those part numbers are FRRA12X4YL, FRH4512X4YL, FRT12X4YL, FRT12X4W6YL, FRFWC12X4YL, FRFWC12X4W6YL, FRVT12X4YL, FRRF126RYL and FRRF126LYL.	—	50	500
4 Post Rack Bracket				
FR4PRB58	Used to support 12x4, 6x4, and 4x4 systems attaching to the top of the 19" wide version of the *PANDUIT* NF4PR84 4 post rack. Contains all hardware required to assemble bracket to the top of the 4 post rack. Bracket accepts 5/8" threaded rod (not included).	5/8"	1	—
1/4" T-Bolt Kit				
FRTBKT-X	T-bolts can be used for additional attachment when securing *FiberRunner*® Channel to mounting brackets. For example, a T-bolt can be inserted thru a 12x4 mounting bracket and positioned within the center rib structure on the underside of 12x4 channel. By tightening the nut, the 12x4 channel is more securely fastened to the mounting bracket.	—	10	100

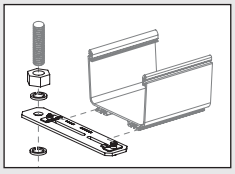
6x4 Routing System Roadmap



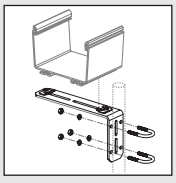
4x4 and 6x4 *FIBERRUNNER*® Mounting Brackets



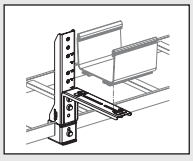
FR6TRBE58 – Existing Threaded Rod *QUIKLOCK*™ Bracket (page J.24)



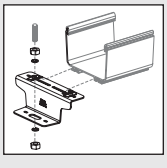
FR6TRBN58 – New Threaded Rod *QUIKLOCK*™ Bracket (page J.24)



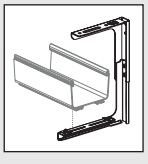
FR6USB – Underfloor Pedestal *QUIKLOCK*™ Bracket (page J.24)



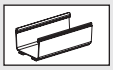
FR6ALB – Adjustable Ladder *QUIKLOCK*™ Bracket (page J.24)



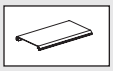
FR6CS58 – Center Support *QUIKLOCK*™ Bracket (page J.24)



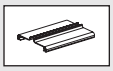
FR6ACB58 – Top Support Adjustable "C" *QUIKLOCK*™ Bracket (page J.25)



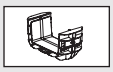
1 **FR6X4**6 – 6x4 *FiberRunner*® Channel (page J.16)**



2 **FRHC6**6 – 6x4 Snap-On Hinged Cover (page J.16)**



3 **FRSHC6**6 – 6x4 Split Hinged Cover (page J.16)**



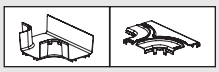
4 **FRBC6X4** – 6x4 *QuikLock*™ Coupler (page J.17)**



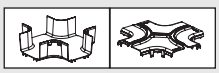
5 **FRH456X4** – 6x4 Horizontal 45° Angle Fitting and FRH45SC6** – Optional Split Cover (page J.17)**



6 **FRRA6X4** – 6x4 Horizontal Right Angle Fitting and FRRASC6** – Optional Split Cover (page J.17)**



7 **FRT6X4** – 6x4 Horizontal Tee Fitting and FRTSC6** – Optional Split Cover (page J.17)**



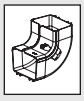
8 **FRFWC6X4** – 6x4 4-Way Cross Fitting and FRFWCSC6** – Optional Split Cover (page J.18)**



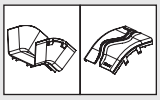
9 **FRVT6X4** – 6x4 *QuikLock*™ Vertical Tee (page J.20)**



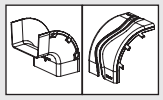
10 **FRIV456X4** – 6x4 Inside Vertical 45° Angle Fitting (page J.18)**



11 **FRIVRA6X4** – 6x4 Inside Vertical 90° Angle Fitting (page J.18)**



12 **FROV456X4** – 6x4 Outside Vertical 45° Angle Fitting and FROV45SC6** – Optional Split Cover (page J.18)**



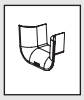
13 **FROVRA6X4** – 6x4 Outside Vertical Right Angle Fitting and FROVRASC6** – Optional Split Cover (page J.19)**



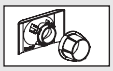
14 **FRCR6BL-X – Cable Retainer for 6x4 System (page J.16)**



15 **FREC6X4** – 6x4 End Cap Fitting (page J.18)**



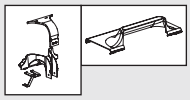
16 **FRTR6X4** – 3-Sided BRC Trumpet Spillout for 6x4 Exit (page J.23)**



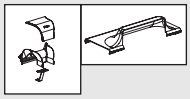
17 **FR1.5IDE** – 1-Port Spillout Side Exit to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.22)**



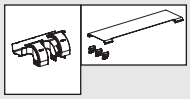
18 **FRIDT6X4** – 3-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.23)**



19 **FRSP** – Spill-Over Junction with 2x2 Exit and FRSP6C** – Optional Cover for 6x4 System (pages J.20 and J.21)**



20 **FRSP4** – Spill-Over Junction with 4x4 Exit and FRSP46C** – Optional Cover for 6x4 System (page J.21)**



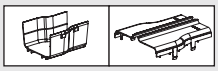
21 **FRDDS6X4** – 6x4 Dual Downspout and FRDDSHC6** – Optional Cover for 6x4 Dual Downspout (page J.22)**



22 **FRUPS6X4** – 6x4 Up Spout (page J.23)**



23 **FRRF64** – 6x4 *FiberRunner*® Fitting to 4x4 *Fiber-Duct*™ Channel Reducer Fitting (page J.19)**



24 **FRRF6FR4** – 6x4 to 4x4 *FiberRunner*® Reducer Fitting and FRRF6FR4SC** – Optional Split Cover (page J.19)**

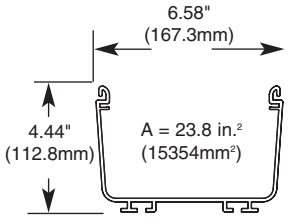
**Available Colors include: YL (Yellow), OR (Orange), and BL (Black).
Note: Additional 6 x 4 and 4 x 4 bracket applications, see page J.30.

c UL us LISTED 6x4 *FiberRunner*® Routing System

Cable Fills for 6x4 *FiberRunner*® Cable Routing System

The maximum amounts may vary according to the cable fill installation methods, straightness of cables, etc.





6x4 *FiberRunner*® Cable Routing System							
Fill/Pile Up	Internal Area in²	Diameter .063" 1.6mm	Diameter .079" 2.0mm	Diameter .118" 30mm	Category 6A Diameter .298" 7.57mm	Fiber Optic Ribbon Interconnect Cable Diameter .205" 5.20mm	Category 6 Diameter .25" 6.35mm
40% Fill							
2" Pile Up	11.95	1534	982	436	69	145	97
3" Pile Up	18.16	2331	1492	663	104	220	148
4" Pile Up	23.8	3055	1955	869	136	288	194
50% Fill							
2" Pile Up	11.95	1917	1227	545	86	181	122
3" Pile Up	18.16	2914	1865	829	130	275	185
4" Pile Up	23.8	3819	2444	1086	171	361	242
60% Fill							
2" Pile Up	11.95	2301	1472	654	103	217	146
3" Pile Up	18.16	3496	2238	994	156	330	222
4" Pile Up	23.8	4582	2933	1303	205	433	291

Channel cutting instructions: For optimum results, use a miter box and saw. For larger quantities use a plastic cutting saw blade for clean, burr-free cuts. Recommend: Carbide 80T and 100T; .090" thickness, .125" kerf.

6x4 *FiberRunner*® Routing System – Channel and Covers

- Robust, large capacity 6x4 system ideal for use with large cable counts
- Multiple spillout options provide versatility to mate to various equipment and rack configurations
- *QuikLock*™ Couplers and Brackets reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Compatible with all sizes of *PANDUIT*® *FiberRunner*® and *PANDUIT*® *Fiber-Duct*™ Routing Systems, cable management, and racks
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS) Level 3



FR6X4



FRHC6



FRSHC6



FRCR6BL-X

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
6x4 *FiberRunner*® Channel			
FR6X4YL6	Used to carry the cables horizontally throughout the system. Accepts hinged cable retainers FRCR6BL-X, hinged cover FRHC6YL6 or split hinged cover FRSHC6YL6. Use *QuikLock*™ Coupler FRBC6X4YL to attach channel and/or fittings.	6	36
6x4 Snap-On Hinged Cover			
FRHC6YL6	Optional snap-on hinged cover for channel FR6X4YL6. Hinge feature enables positioning of cover at angles between 30° and 90°.	6	36
6x4 Split Hinged Cover			
FRSHC6YL6	Optional split hinged cover for the channel FR6X4YL6. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables. Snap-on hinge feature enables positioning of cover at angles between 30° and 90°.	6	36
Cable Retainer for 6x4 System			
FRCR6BL-X	Cable retainer holds cable in the channel when cover is not used. Install anywhere on channel, near the coupler or every 18" (457mm). Black color only.	10	100

For other colors replace YL (Yellow) with OR (Orange) or BL (Black).
Order number of feet required, in multiples of standard 6' length increments.
Order number of cable retainers required, in multiples of Standard Package Quantity.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

6x4 *FiberRunner*® *QuikLock*™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FRBC6X4YL	Pre-assembled coupler quickly joins two sections of channel and/or fittings. Mechanically attaches without tightening bolts. Bolts release using 3/8" nut driver to allow coupler to be removed if necessary.	1	5

For a bulk package of 20 couplers, order FRBC6X4YL-E.
For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

6x4 *FiberRunner*® System Fittings

- Minimum 2" (50.8mm) bend radius control fittings
- Protect against signal loss and performance degradation
- Assemble using FRBC *QuikLock*™ Couplers
- Optional split covers snap onto each fitting
- Covers feature 3/4" (19mm) gap to allow cable to be laid in



FRRA6X4



FRRASC6



FRH456X4



FRH45SC6



FRT6X4



FRTSC6

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
6x4 Horizontal Right Angle Fitting				
FRRA6X4YL	Attaches to 6x4 channel and/or fittings to create a 90° horizontal turn from a straight horizontal run. Accepts optional split cover FRRASC6YL.	(2 pcs.) FRBC6X4YL	1	5
Split Cover for 6x4 Horizontal Right Angle Fitting				
FRRASC6YL	Optional split cover for the horizontal right angle fitting FRRA6X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
6x4 Horizontal 45° Angle Fitting				
FRH456X4YL	Attaches to 6x4 channel and/or fittings to create a 45° horizontal turn from a straight horizontal run. Accepts optional split cover FRH45SC6YL.	(2 pcs.) FRBC6X4YL	1	5
Split Cover for 6x4 Horizontal 45° Angle Fitting				
FRH45SC6YL	Optional split cover for the horizontal 45° angle fitting FRH456X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
6x4 Horizontal Tee Fitting				
FRT6X4YL	Attaches to 6x4 channel and/or fittings to create a 90° horizontal branch from a straight horizontal run. Accepts optional split cover FRTSC6YL.	(3 pcs.) FRBC6X4YL	1	5
Split Cover for 6x4 Horizontal Tee Fitting				
FRTSC6YL	Optional split cover for the horizontal tee fitting FRT6X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Table continues on page J.18

6x4 *FiberRunner*® System Fittings (continued)



FRFWC6X4



FRFWCSC6



FREC6X4



FRIVRA6X4



FRIV456X4



FROV456X4



FROV45SC6

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
6x4 Four Way Cross Fitting				
FRFWC6X4YL	Attaches to 6x4 channel and/or fittings to create a horizontal four way cross intersection. Accepts optional split cover FRFWCSC6YL.	(4 pcs.) FRBC6X4YL	1	5
Split Cover for 6x4 Four Way Cross Fitting				
FRFWCSC6YL	Optional split cover for the four way cross fitting FRFWC6X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
6x4 End Cap Fitting				
FREC6X4YL	Used for closing off open ends of the channel or fittings. No coupler required. Push-on installation.	—	1	5
6x4 Inside Vertical 90° Angle Fitting				
FRIVRA6X4YL	Attaches to 6x4 channel and/or fittings to create a 90° upward angle from a straight horizontal run. Used with outside vertical 90° angle fitting FROVRA6X4YL to change level of a straight horizontal run. Includes split cover.	(2 pcs.) FRBC6X4YL	1	5
6x4 Inside Vertical 45° Angle Fitting				
FRIV456X4YL	Attaches to 6x4 channel and/or fittings to create a 45° upward angle from a straight horizontal run. Used with outside vertical 45° angle fitting FROV456X4YL to change level of a straight horizontal run. Includes split cover.	(2 pcs.) FRBC6X4YL	1	5
6x4 Outside Vertical 45° Angle Fitting				
FROV456X4YL	Attaches to 6x4 channel and/or fittings to create a 45° downward angle from a straight horizontal run. Used with inside vertical 45° angle fitting FRIV456X4YL to change level of a straight horizontal run. Accepts optional split cover FROV45SC6YL.	(2 pcs.) FRBC6X4YL	1	5
Split Cover for 6x4 Outside Vertical 45° Angle Fitting				
FROV45SC6YL	Optional split cover for the outside vertical 45° angle fitting FROV456X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

6x4 *FiberRunner*® System Fittings (continued)



FROVRA6X4



FROVRASC6



FRRF6FR4



FRRF6FR4SC



FRRF64

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
6x4 Outside Vertical Right Angle Fitting				
FROVRA6X4YL	Attaches to 6x4 channel and/or fittings to create a 90° vertical turn down from a straight horizontal run. Accepts optional split cover FROVRASC6YL.	(2 pcs.) FRBC6X4YL	1	5
Split Cover for 6x4 Outside Vertical Right Angle Fitting				
FROVRASC6YL	Optional split cover for the outside vertical right angle fitting FROVRA6X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
6x4 to 4x4 *FiberRunner*® Reducer Fitting				
FRRF6FR4YL	Attaches any 6x4 *FiberRunner*® Fitting or Channel to any 4x4 *FiberRunner*® Fitting or Channel. Accepts split cover FRRF6FR4SCYL.	(1 pc.) FRBC6X4YL (1 pc.) FRBC4X4YL	1	5
Split Cover for 6x4 to 4x4 *FiberRunner*® Reducer Fitting				
FRRF6FR4SCYL	Optional split cover for the 6x4 *FiberRunner*® to 4x4 *FiberRunner*® Reducer Fitting FRRF6FR4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
6x4 *FiberRunner*® System to 4x4 *Fiber-Duct*™ Reducer Fitting				
FRRF64YL	Attaches any 6x4 *FiberRunner*® Fitting or Channel to the 4x4 *Fiber-Duct*™ Channel S4X4YL6 or E4X4YL6. Includes solid cover.	(1 pc.) FRBC6X4YL	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

6x4 *FiberRunner*® System Spillouts

- Spill-overs allow safe transition from horizontal to vertical runs
- 2" (50.8mm) bend radius control
- Transition to channel, slotted channel, and corrugated loom tubing
- Spill-over junction fittings can be retro-fitted to existing horizontal runs



FRVT6X4



FTR4X4



FIDT4X4BL



FRHD4KT



TRC4HDBL



FRLPR42BL



FRSP

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
6x4 *QuikLock*™ Vertical Tee				
FRVT6X4YL	Attaches to 6x4 channel and/or fittings to create 90° vertical drop from a straight horizontal run. Hinged door included. Accepts FTR4X4YL, FIDT4X4BL, S4X4YL6 or E4X4YL6 directly. Accepts optional snap-on cover FRHC6YL6 in conjunction with channel.	(2 pcs.) FRBC6X4YL	1	5
3-Sided Vertical Tee Trumpet Spillout				
FTR4X4YL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from a 4x4 or 6x4 *FiberRunner*® Vertical Tee and 4x4 *Fiber-Duct*™ Fittings.	—	1	5
2-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FIDT4X4BL	Used to route cable into one or two pieces of 1.5" (38mm) diameter split corrugated tubing. Used with FRVT6X4YL, FRVT4X4YL, or FVT4X4YL. Securely holds corrugated split tubing to ensure system integrity and easy access to add or remove cables. Black color only.	—	1	5
4x4 Hinged Duct Vertical Cable Manager Kit				
FRHD4KTYL	Provides secure, accessible route for cables spilling out from vertical tee to rack mounted equipment. Kit includes 6' length of 4x4 capacity hinged duct, 6' length of 4x4 hinged duct cover, one end cap for 4x4 hinged duct, three FZBA1.5X4 adjustable "Z" brackets, an adapter fitting, six WR4-C wire retainers and all required mounting hardware. Attaches directly to 6x4 and 4x4 vertical tee exit or FRLPR64 low profile reducer.	—	1	—
4x4 Hinged Duct Bend Radius Control Trumpet				
TRC4HDBL	Bend radius control trumpet for exiting at the sidewall of 4" wall heights of type H hinged cover wiring duct channels. Maintains 1" (25.4mm) bend radius control. Black color only.	—	1	10
Low Profile Reducer 4x4 to 2x2 for Vertical Tee				
FRLPR42BL	Assembled into the 6x4 vertical tee FRVT6X4YL or 4x4 vertical tee FRVT4X4YL with an audible snap, the FRLPR42BL allows for the transition to 2x2 *FiberRunner*® or 2x2 *Fiber-Duct*™ Channel with minimal space required. No tools required for assembly. Black color only.	—	1	5
Spill-Over Junction with 2x2 Exit				
FRSPYL	Assembles onto 4x4, 6x4, or 12x4 *FiberRunner*® Channel, spilling over the side into a 2x2 vertical channel, fitting, or corrugated tube. Mounts directly to existing installation with no alteration required. Mounting hardware provided for secure attachment.	—	1	—

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

6x4 *FiberRunner*® System Spillouts (continued)



FRSP6C



FTR2X2



FIDT2X2



FRHD2KT



TRC2HDBL



FRSP4



FRSP46C

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
Cover for Spill-Over Junction with 2x2 Exit for 6x4 Channel				
FRSP6CYL	Used to fully enclose 6x4 channel in conjunction with the spill-over junction FRSPYL. Cover snaps onto the channel base. Hinged feature allows easy access to add or remove cables.	—	1	5
3-Sided BRC Trumpet Spillout for 2x2 Exit				
FTR2X2YL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from a *FiberRunner*® Spill-Over FRSPYL or from 2x2 *Fiber-Duct*™ Channel.	(1 pc.) FBC2X2YL	1	5
1-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FIDT2X2YL	Used to route cable into one piece of 1.5" (38mm) diameter split corrugated tubing. Used with *FiberRunner*® Spill-Over FRSPYL, 2x2 *Fiber-Duct*™ Fittings, and the 2x2 *FiberRunner*® Hinged Channel. Securely holds split corrugated tubing to ensure system integrity and easy access to add or remove cables.	(1 pc.) FBC2X2YL	1	5
2x2 Hinged Duct Vertical Cable Manager Kit				
FRHD2KTYL	Provides secure, accessible route for cables spilling out from a vertical tee or spill-over junction to rack mounted equipment. Kit includes 6' length of 2x2 *FiberRunner*® Hinged Channel H2X2YL6, 6' length of 2x2 snap-on hinged cover HC2YL6, four adjustable "Z" brackets FZBA1.5X4, one *FiberRunner*® 2x2 End Cap FHDEC2X2YL, six hinged duct 2" wire retainers WR2H-C and all required mounting hardware. Attaches to 2x2 vertical tee exit or spill-over junction with a 2x2 exit with a 2x2 *QuikLock*™ Coupler FBC2X2YL. Also attaches directly to 4x4 or 6x4 vertical tee exits with low profile reducer FRLPR42BL. Yellow and orange colors only.	—	1	—
2x2 *FiberRunner*® Bend Radius Control Trumpet				
TRC2HDBL	Bend radius control trumpet for exiting at the sidewall of 2" wall heights of type H hinged cover wiring duct channels. Maintains 1" (25.4mm) bend radius control. Black color only.	—	1	10
Spill-Over Junction with 4x4 Exit				
FRSP4YL	Assembles onto 4x4, 6x4, or 12x4 *FiberRunner*® Channel, spilling over the side into a 4x4 vertical exit. Requires coupler to attach 4x4 *FiberRunner*® Channel and Fittings to the vertical exit. Mounts directly to existing installation with no alteration required. Mounting hardware provided for secure attachment.	(1 pc.) FRBC4X4YL	1	—
Cover for Spill-Over Junction with 4x4 Exit for 6x4 Channel				
FRSP46CYL	Used to fully enclose the 6x4 channel in conjunction with the spill-over junction FRSP4YL. Cover snaps onto the channel base. Hinged feature allows easy access to add or remove cables.	—	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Table continues on page J.22

6x4 *FiberRunner*® System Spillouts (continued)



FRDDS6X4



FRDDSHC6



FRTR4X4



FRIDT4X4



FR1.5IDE

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
6x4 Dual Downspout				
FRDDS6X4YL	Attaches to 6x4 channel and/or fittings to create two 90° 4x4 downward transitions from a horizontal run. Downspouts are positioned 600mm apart to provide drops into cable entrances on multiple cabinet line-ups. The fitting maintains a 2" bend radius control throughout the transition to the vertical downspouts. Includes two snap-on throat covers for the dual downspouts. Accepts optional cover FRDDSHC6YL.	(2) FRBC6X4YL (2) FRBC4X4YL	1	—
Cover for 6x4 Dual Downspout				
FRDDSHC6YL	Used to fully enclose the 6x4 dual downspout fitting FRDDS6X4YL. Cover is attached to the fitting base with three hinge clips. The hinge clips allow the hinged cover to rotate to a fully closed position and an open position greater than 90°.	—	1	5
3-Sided BRC Trumpet Spillout for 4x4 *FiberRunner*® Exit				
FRTR4X4YL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from 4x4 *FiberRunner*® Channel or a 4x4 *FiberRunner*® Horizontal Tee.	(1 pc.) FRBC4X4YL	1	5
2-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FRIDT4X4YL	Used to route cable into one or two pieces of 1.5" (38mm) diameter split corrugated tubing. Requires coupler to be used with 4x4 *FiberRunner*® Fitting. Used with any 4x4 *FiberRunner*® Fitting. Securely holds corrugated split tubing to ensure system integrity and easy access to add or remove cables.	(1 pc.) FRBC4X4YL	1	5
1-Port Spillout Side Exit to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FR1.5IDEYL	Used to route cable into 1.5" (38mm) diameter split corrugated tubing directly through a hole cut in the side wall of the 4x4, 6x4, and 12x4 *FiberRunner*® Channel or 4x4 *Fiber-Duct*™ Channel. Provides 1" (25.4mm) bend radius control at the exit. Securely holds split corrugated tubing to ensure system integrity and easy access to add or remove cables. Includes drilling template.	—	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

6x4 *FiberRunner*® System Spillouts (continued)



FRTR6X4



FRUPS6X4



FITF6X4



FRIDT6X4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
3-Sided BRC Trumpet Spillout for 6x4 Exit				
FRTR6X4YL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from 6x4 channel, 6x4 horizontal tee fitting, or 6x4 exit on 12x4 vertical tee.	(1 pc.) FRBC6X4YL	1	5
6x4 Up Spout				
FRUPS6X4YL	Allows cable to be directed upward out of the channel deployed directly below racks and cabinets in underfloor installations. Provides 2" (50.8mm) bend radius. Snaps directly onto the channel and can be positioned to allow cables to be laid in. A 1" (25.4mm) top bezel is included. Other fittings can be installed for specific applications including FTR4X4YL and FIDT4X4BL.	—	1	5
Innerduct Transition Fitting				
FITF6X4	Metal fitting attaches to end of channel or fitting to transition up to four pieces of solid 1.5" (38mm) inside diameter inner duct. Hardware is included for installation. Black color only.	—	1	10
3-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FRIDT6X4YL	Used to route cable into three separate pieces of 1.5" (38mm) diameter split corrugated tubing. Used with FRVT12X4YL or any 6x4 fitting. Securely holds corrugated split tubing to ensure system integrity and easy access to add or remove cables.	(1 pc.) FRBC6X4YL	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

4x4 and 6x4 *FiberRunner*® Mounting Brackets



FR6TRBE12
FR6TRBE58
FR6TRBE12M
FR6TRBE58M



FR6TRBN12
FR6TRBN58
FR6TRBN12M
FR6TRBN58M



FR6USB



FR6ALB



FR6CS12
FR6CS58
FR6CS12M
FR6CS58M

Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Existing Threaded Rod *QuikLock*™ Bracket for 6x4 and 4x4 Systems				
FR6TRBE12	Used to support the 6x4 and 4x4 systems from existing threaded rod installations. Bracket is secured to threaded rod with two split nuts. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	1/2"	1	10
FR6TRBE58		5/8"	1	10
FR6TRBE12M		12mm	1	10
FR6TRBE58M		16mm	1	10
New Threaded Rod *QuikLock*™ Bracket for 6x4 and 4x4 Systems				
FR6TRBN12	Used to support the 6x4 and 4x4 systems from any new threaded rod installations. Bracket is secured to threaded rod with two nuts. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	1/2"	1	10
FR6TRBN58		5/8"	1	10
FR6TRBN12M		12mm	1	10
FR6TRBN58M		16mm	1	10
Underfloor Pedestal *QuikLock*™ Bracket for 6x4 and 4x4 Systems				
FR6USB	Used to support the 6x4 and 4x4 systems by attaching to underfloor pedestals. (Contains all necessary hardware.) Use on pedestals up to 1" in diameter. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	—	1	10
Adjustable Ladder *QuikLock*™ Bracket for 6x4 and 4x4 Systems				
FR6ALB	Used to support the 6x4 and 4x4 systems attaching to any 3/8" (9.5mm) x 1 1/2" (38.1mm) or 3/8" (9.5mm) x 2" (50.8mm) ladder rack rail. Adjustable to nine incremental positions from 4" (101mm) to 12" (305mm) above or below the ladder rack. No threaded rod required. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	—	1	10
Center Support *QuikLock*™ Bracket for 6x4 and 4x4 Systems				
FR6CS12	Used to support the 6x4 and 4x4 systems from below with new threaded rod. Bracket is secured to threaded rod with two nuts. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps. Also can be secured directly to the top of cabinets.	1/2"	1	10
FR6CS58		5/8"	1	10
FR6CS12M		12mm	1	10
FR6CS58M		16mm	1	10

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

4x4 and 6x4 *FIBERRUNNER*® Mounting Brackets (continued)



FR6ACB12
FR6ACB58
FR6ACB12M
FR6ACB58M



FR6TB38
FR6TB12
FR6TB38M
FR6TB12M



FR6ACAB



F2PCLB12
F2PCLB58



FRAFC58

Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Top Support Adjustable "C" *QUIKLOCK*™ Bracket for 6x4 and 4x4 Systems				
FR6ACB12	Used to support the 6x4 and 4x4 systems from any new threaded rod extending down directly from the ceiling, grid, or ladder rack system. Two position height adjustments to accommodate system with or without hinged cover. Bracket is secured to threaded rod with two nuts. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	1/2"	1	—
FR6ACB58		5/8"	1	—
FR6ACB12M		12mm	1	—
FR6ACB58M		16mm	1	—
Trapeze *QUIKLOCK*™ Bracket for 6x4 and 4x4 Systems				
FR6TB38	Used to support the 6x4 and 4x4 systems by spanning two threaded rod drops. Can be installed from above or below. Bracket is secured to each threaded rod with two nuts. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	3/8"	1	10
FR6TB12		1/2"	1	10
FR6TB38M		10mm	1	10
FR6TB12M		12mm	1	10
Adjustable Cabinet *QUIKLOCK*™ Bracket for 6x4 and 4x4 Systems				
FR6ACAB	Used to support the 6x4 and 4x4 systems attaching to the top of cabinets. Adjustable from 4 1/4" (108mm) to 9" (229mm) allowing runs to be leveled over uneven cabinet heights. Also allows spillouts such as the vertical tee to be positioned directly over cable inlets on cabinet tops. Bracket is secured to the cabinet frame with through bolts (not included). The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	—	1	—
Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1 1/2" – 2" Ladder Rack				
F2PCLB12	Two-piece bracket attaches to 3/8" (9.5mm) wide x 1 1/2" (38.1mm) or 3/8" (9.5mm) wide x 2" (50.8mm) ladder rack rail. Bracket halves slide into position and clamp together on the ladder rack rail, which allows for a one-handed assembly of the threaded rod (not included). Contains bracket and hardware for attaching bracket to ladder rack.	1/2"	1	10
F2PCLB58		5/8"	1	10
Two-Piece Framing Clip for Attaching 5/8" Threaded Rod to 2" x 9/16" C-Channel Auxiliary Framing Bars				
FRAFC58	Two-piece framing clip attaches to auxiliary framing bars. Framing clip halves slide into position and interlock on the auxiliary framing bars, allowing easier assembly of the threaded rod to bars. Contains two-piece framing clip and hardware for attaching framing clip to auxiliary framing bars. (5/8" threaded rod not included.)	5/8"	1	10

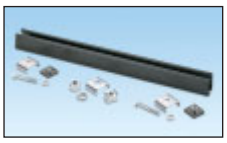
Table continues on page J.26

4x4 and 6x4 *FIBERRUNNER*® Mounting Brackets (continued)


FR6LRB


FR6LB


FRRMBNF58


FR4PRB58

Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Ladder Rack *QUIKLOCK*™ Bracket for 6x4 and 4x4 Systems				
FR6LRB	Used to support the 6x4 and 4x4 systems attaching directly to any 3/8" (9.5mm) x 1 1/2" (38.1mm) or 3/8" (9.5mm) x 2" (50.8mm) ladder rack rail. No threaded rod required. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	—	1	10
"L" Wall Mount *QUIKLOCK*™ Bracket for 6x4 and 4x4 Systems				
FR6LB	Used to support the 6x4 and 4x4 systems attaching to a wall or the front or back of an equipment rack. The pre-assembled slide clamps enable fast assembly to channel. Use 7/16" nut driver on slide clamps.	—	1	10
***NETFRAME*® *NETRACK*™ *QUIKLOCK*™ Mounting Bracket for 6x4 and 4x4 Systems**				
FRRMBNF58	Used to support the 6x4 and 4x4 systems attaching to the top of *NETFRAME*® or *NETRACK*™ Rack. (Contains all necessary mounting hardware.) Bracket accepts 5/8" threaded rod.	5/8"	1	—
4 Post Rack Bracket				
FR4PRB58	Used to support 12x4, 6x4, and 4x4 systems attaching to the top of the 19" wide version of the *PANDUIT* NF4PR84 4 post rack. Contains all hardware required to assemble bracket to the top of the 4 post rack. Bracket accepts 5/8" threaded rod (not included).	5/8"	1	—

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Adapters to Other Systems



FRADC12X4BL



FRADC6X4



FRADC4X4BL



FADC4X4



FRTEL6



FRTEL4



FRWBS68

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
Adapter from 12x4 *FiberRunner*® System to ADC 12x4 FiberGuide*				
FRADC12X4BL	Fitting that transitions from ADC 12x4 FiberGuide* System to 12x4 *FiberRunner*® System. Fitting has a black finish and is made from metal. Attachment hardware is included.	(1 pc.) FRBC12X4YL	1	5
Adapter from 6x4 *FiberRunner*® System to ADC 6x4 FiberGuide*				
FRADC6X4YL	Fitting that transitions from ADC 6x4 FiberGuide* System to 6x4 *FiberRunner*® System. Bolts release using 3/8" nut driver to allow coupler to be removed, if necessary.	—	1	5
Adapter from 4x4 *FiberRunner*® System to ADC 4x4 FiberGuide*				
FRADC4X4BL	Fitting that transitions from ADC 4x4 FiberGuide* System to 4x4 *FiberRunner*® System. Fitting has a black finish and is made from metal. Attachment hardware is included.	(1 pc.) FRBC4X4YL	1	5
Adapter from 4x4 *Fiber-Duct*™ System to ADC 4x4 FiberGuide*				
FADC4X4	Fitting that transitions from ADC 4x4 FiberGuide* Fiber Cable Management System to 4x4 *Fiber-Duct*™ System. Fitting has a black finish and is made from metal. Attachment hardware is included.	—	1	10
Adapter from 6x4 *FiberRunner*® System to Telect 6x4 WaveTrax***				
FRTEL6	Fitting that transitions from Telect 6x4 WaveTrax*** System to 6x4 *FiberRunner*® System. Fitting has a black finish and is made from metal. Attachment hardware is included.	(1 pc.) FRBC6X4YL	1	5
Adapter from 4x4 *FiberRunner*® System to Telect 4x4 WaveTrax***				
FRTEL4	Fitting that transitions from Telect 4x4 WaveTrax*** System to 4x4 *FiberRunner*® System. Fitting has a black finish and is made from metal. Attachment hardware is included.	(1 pc.) FRBC4X4YL	1	5
Adapter from 6x4 *FiberRunner*® System to Warren & Brown 8x4 Lightpaths**				
FRWBS68	Fitting that transitions from Warren & Brown 8x4 Lightpaths** System to 6x4 *FiberRunner*® System. Fitting has a black finish and is made from metal. Attachment hardware is included.	(1 pc.) FRBC6X4YL	1	5

*FiberGuide is a registered trademark of ADC Telecommunications, Inc.
**Lightpaths is a registered trademark of Warren & Brown Technologies Pty Ltd.
***WaveTrax is a registered trademark of Telect, Inc.

Table continues on page J.28

Adapters to Other Systems (continued)



FRNWT12



FRNWT128



FRTYT68



FTDNS4X4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
Adapter from 12x4 *FiberRunner*® System to Various 12x4 System Channels				
FRNWT12	Fitting that transitions from Tyton 12x4 Lightguide* Channel, Newton** 12x4 Channel, or Ditel 12x4 Lightrax*** Channel to 12x4 *FiberRunner*® System. Fitting has a black finish and is made from metal. Attachment hardware is included.	(1 pc.) FRBC12X4YL	1	—
Adapter from 12x4 *FiberRunner*® System to Various 8x4 System Channels				
FRNWT128	Fitting that transitions from Tyton 8x4 Lightguide* Channel, Newton** 8x4 Channel, or Ditel 8x4 Lightrax*** Channel to 12x4 *FiberRunner*® System. Fitting has a black finish and is made from metal. Attachment hardware is included.	(1 pc.) FRBC12X4YL	1	—
Adapter from 6x4 *FiberRunner*® System to Various 8x4 System Channels				
FRTYT68	Fitting that transitions from Tyton 8x4 Lightguide* Channel, Newton** 8x4 Channel, or Ditel 8x4 Lightrax*** Channel to 6x4 *FiberRunner*® System. Fitting has a black finish and is made from metal. Attachment hardware is included.	(1 pc.) FRBC6X4YL	1	5
Adapter from 4x4 *Fiber-Duct*™ System to Various 4x4 Systems				
FTDNS4X4YL	Fitting that transitions from various 4x4 systems to 4x4 *Fiber-Duct*™ System. Attachment hardware is included.	—	1	5

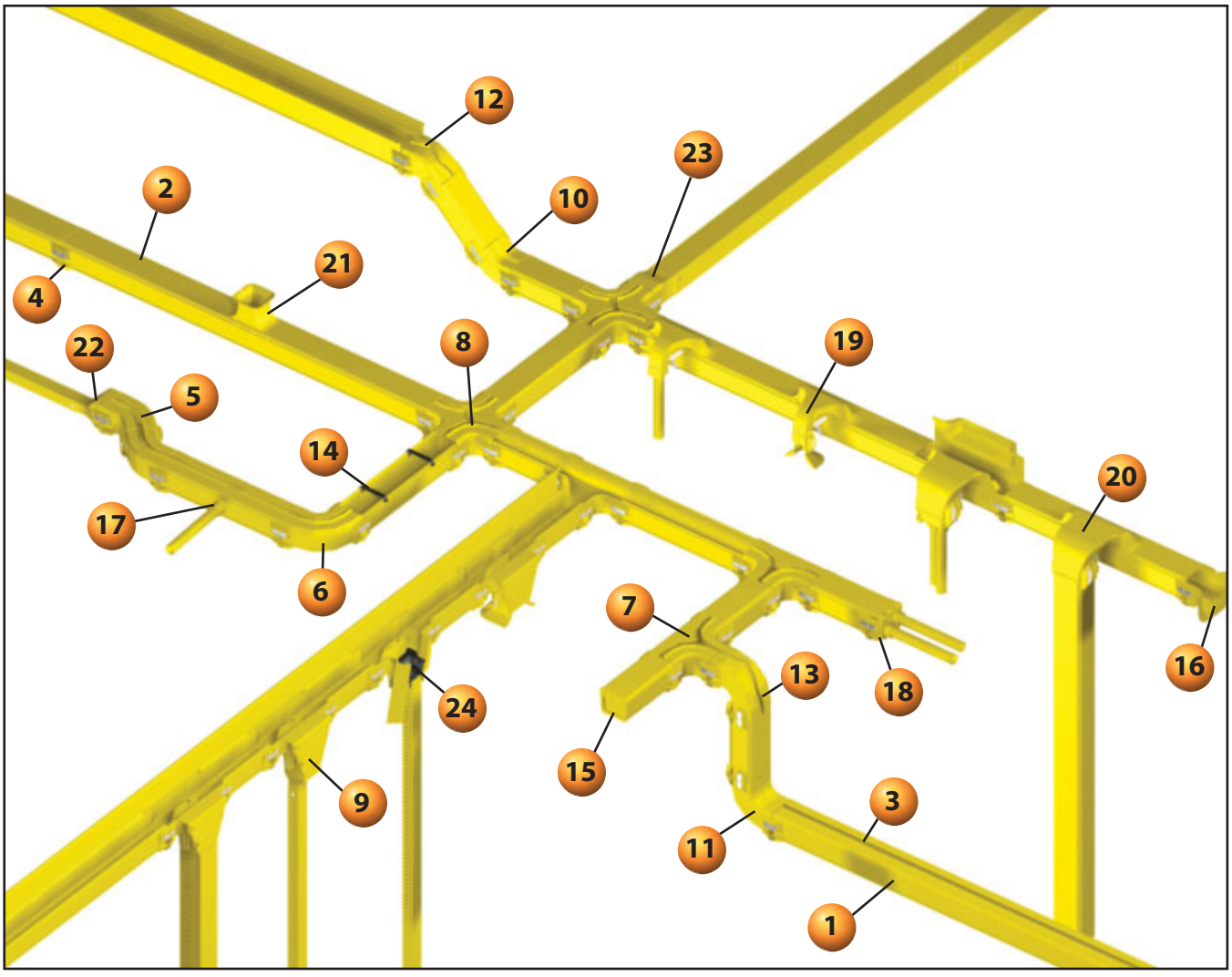
*Lightguide is a trademark of the Hellerman Tyton Corporation.
**Newton is a tradename of Newton Instrument Company, Inc.
***Lightrax is a trademark of Tyco Electronics Corporation.

Order number of pieces required, in multiples of Standard Package Quantity.

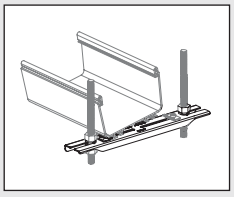
Prime items appear in **BOLD**.

NOTES

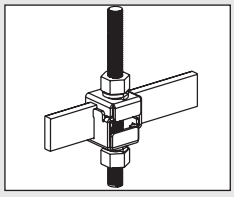
4x4 Routing System Roadmap



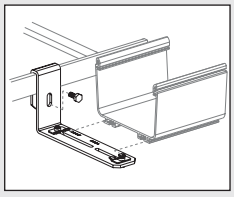
4x4 and 6x4 *FiberRunner*® Mounting Brackets



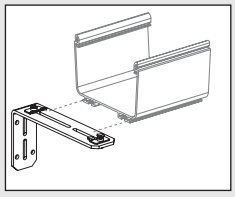
FR6TB38 – Trapeze *QuikLock*™ Bracket (page J.25)



F2PCLB – Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1 1/2" – 2" Ladder Rack (page J.25)

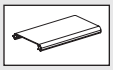


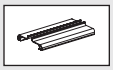
FR6LRB – Ladder Rack *QuikLock*™ Bracket (page J.26)



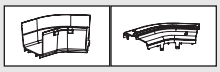
FR6LB – "L" Wall Mount *QuikLock*™ Bracket (page J.26)

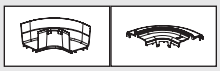

1. FR4X4**6 – 4x4 *FiberRunner*® Channel (page J.32)

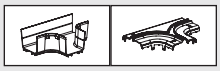

2. FRHC4**6 – 4x4 Snap-On Hinged Cover (page J.32)

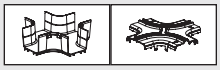

3. FRSHC4**6 – 4x4 Split Hinged Cover (page J.32)


4. FRBC4X4** – 4x4 *QuikLock*™ Coupler (page J.33)


5. FRH454X4** – 4x4 Horizontal 45° Angle Fitting and FRH45SC4** Optional Split Cover (page J.33)


6. FRRA4X4** – 4x4 Horizontal Right Angle Fitting and FRRASC4** – Optional Split Cover (page J.33)

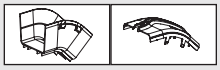

7. FRT4X4** – 4x4 Horizontal Tee Fitting and FRTSC4** – Optional Split Cover (page J.34)


8. FRFWC4X4** – 4x4 4-Way Cross Fitting and FRFWCSC4** – Optional Split Cover (page J.34)


9. FRVT4X4** – 4x4 *QuikLock*™ Vertical Tee (page J.36)


10. FRIV454X4** – 4x4 Inside Vertical 45° Angle Fitting (page J.34)

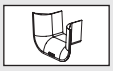

11. FRIVRA4X4** – 4x4 Inside Vertical 90° Angle Fitting (page J.34)

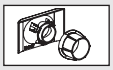

12. FROV454X4** – 4x4 Outside Vertical 45° Angle Fitting and FROV45SC4** – Optional Split Cover (pages J.34 and J.35)


13. FROVRA4X4** – 4x4 Outside Vertical Right Angle Fitting and FROVRASC4** – Optional Split Cover (page J.35)

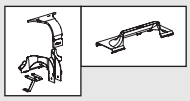

14. FRCR4BL-X – Cable Retainer for 4x4 System (page J.32)

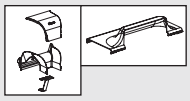

15. FREC4X4** – 4x4 End Cap Fitting (page J.34)


16. FRTR4X4** – 3-Sided BRC Trumpet Spillout for 4x4 *FiberRunner*® Exit (page J.38)


17. FR1.5IDE** – 1-Port Spillout Side Exit to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.38)


18. FRIDT4X4** – 2-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.38)


19. FRSP** – Spill-Over Junction with 2x2 Exit and FRSP4C** – Optional Cover for 4x4 System (page J.37)


20. FRSP4** – Spill-Over Junction with 4x4 Exit and FRSP44C** – Optional Cover for 4x4 System (pages J.37 and J.38)


21. FRUPS4X4** – 4x4 Up Spout (page J.38)


22. FRRF4FD2** – 4x4 *FiberRunner*® System to 2x2 Reducer Fitting with Cover (page J.35)


23. FRRF4FD4** – 4x4 *FiberRunner*® System to 4x4 *Fiber-Duct*™ Reducer Fitting with Cover (page J.35)


24. FRLPR42BL – Low Profile Reducer 4x4 to 2x2 for Vertical Tee (page J.36)

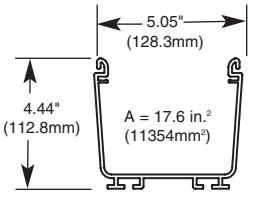
**Available colors include: YL (Yellow), OR (Orange), and BL (Black).
Note: Additional 6x4 and 4x4 bracket applications, see page J.14.

4x4 *FiberRunner*® Routing System

Cable Fills for 4x4 *FiberRunner*® Cable Routing System

The maximum amounts may vary according to the cable fill installation methods, straightness of cables, etc.





4x4 *FiberRunner*® Cable Routing System							
Fill/Pile Up	Internal Area in²	Diameter .063" 1.6mm	Diameter .079" 2.0mm	Diameter .118" 3.0mm	Category 6A Diameter .298" 7.57mm	Fiber Optic Ribbon Interconnect Cable Diameter .205" 5.20mm	Category 6 Diameter .25" 6.35mm
40% Fill							
2" Pile Up	8.9	1142	731	325	51	108	73
3" Pile Up	13.58	1743	1116	496	78	165	111
4" Pile Up	17.6	2259	1446	643	101	213	143
50% Fill							
2" Pile Up	8.9	1428	914	406	64	135	91
3" Pile Up	13.58	2179	1394	620	97	206	138
4" Pile Up	17.6	2824	1807	803	126	267	179
60% Fill							
2" Pile Up	8.9	1714	1097	487	77	162	109
3" Pile Up	13.58	2615	1673	744	117	247	166
4" Pile Up	17.6	3389	2169	964	151	320	215

Channel cutting instructions: For optimum results, use a miter box and saw. For larger quantities use a plastic cutting saw blade for clean, burr-free cuts. Recommend: Carbide 80T and 100T; .090" thickness, .125" kerf.

4x4 *FiberRunner*® Routing System – Channel and Covers

- Robust 4x4 system ideal for use with smaller cable counts
- Multiple spillout options provide versatility to mate to various equipment and rack configurations
- *QuikLock*™ Couplers and Brackets reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Compatible with all sizes of *PANDUIT*® *FiberRunner*® and *PANDUIT*® *Fiber-Duct*™ Routing Systems, cable management, and racks
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS) Level 3



FR4X4



FRHC4



FRSHC4



FRCR4BL-X

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
4x4 *FiberRunner*® Channel			
FR4X4YL6	Used to carry the cables horizontally throughout the system. Accepts hinged cable retainers FRCR4BL-X, hinged cover FRHC4YL6, or split hinged cover FRSHC4YL6. Use *QuikLock*™ Coupler FRBC4X4YL to attach channel and/or fittings.	6	36
4x4 Snap-On Hinged Cover			
FRHC4YL6	Optional snap-on hinged cover for channel FR4X4YL6. Hinge feature enables positioning of cover at angles between 30° to 90°.	6	36
4x4 Split Hinged Cover			
FRSHC4YL6	Optional split hinged cover for the channel FR4X4YL6. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables. Snap-on hinge feature enables positioning of cover at angles between 30° and 90°.	6	36
Cable Retainer for 4x4 System			
FRCR4BL-X	Cable retainer holds cable in the channel when cover is not used. Install anywhere on channel, near the coupler or every 18" (457mm). Black color only.	10	100

For other colors replace YL (Yellow) with OR (Orange) or BL (Black).
Order number of feet required, in multiples of standard 6' length increments.
Order number of cable retainers required, in multiples of Standard Package Quantity.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

4x4 *FiberRunner*® *QuikLock*™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FRBC4X4YL	Pre-assembled coupler quickly joins two sections of channel and/or fittings. Mechanically attaches without tightening bolts. Bolts release using 3/8" nut driver to allow coupler to be removed if necessary.	1	5

For a bulk package of 20 couplers, order FRBC4X4YL-E.
For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

4x4 *FiberRunner*® System Fittings

- Minimum 2" (50.8mm) bend radius control fittings
- Protects against signal loss and performance degradation
- Assemble using FRBC *QuikLock*™ Couplers
- Optional split covers snap onto each fitting
- Covers feature 3/4" (19mm) gap to allow cable to be laid in



FRRA4X4



FRRASC4



FRH454X4



FRH45SC4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
4x4 Horizontal Right Angle Fitting				
FRRA4X4YL	Attaches to 4x4 channel and/or fitting to create a 90° horizontal turn from a straight horizontal run. Accepts optional split cover FRRASC4YL.	(2 pcs.) FRBC4X4YL	1	5
Split Cover for 4x4 Horizontal Right Angle Fitting				
FRRASC4YL	Optional split cover for the horizontal right angle fitting FRRA4X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
4x4 Horizontal 45° Angle Fitting				
FRH454X4YL	Attaches to 4x4 channel and/or fittings to create a 45° horizontal turn from a straight horizontal run. Accepts optional split cover FRH45SC4YL.	(2 pcs.) FRBC4X4YL	1	5
Split Cover for 4x4 Horizontal 45° Angle Fitting				
FRH45SC4YL	Optional split cover for the horizontal 45° angle fitting FRH454X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Table continued on page J.34

4x4 *FiberRunner*® System Fittings (continued)


FRT4X4


FRTSC4


FRFWC4X4


FRFWCSC4


FREC4X4


FRIVRA4X4


FRIV454X4


FROV454X4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
4x4 Horizontal Tee Fitting				
FRT4X4YL	Attaches to 4x4 channel and/or fittings to create a 90° horizontal branch from straight horizontal runs. Accepts optional split cover FRTSC4YL.	(3 pcs.) FRBC4X4YL	1	5
Split Cover for 4x4 Horizontal Tee Fitting				
FRTSC4YL	Optional split cover for the horizontal tee fitting FRT4X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
4x4 Four Way Cross Fitting				
FRFWC4X4YL	Attaches to 4x4 channel and/or fittings to create a horizontal four way cross intersection. Accepts optional split cover FRFWCSC4YL.	(4 pcs.) FRBC4X4YL	1	5
Split Cover for 4x4 Four Way Cross Fitting				
FRFWCSC4YL	Optional split cover for the four way cross fitting FRFWC4X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
4x4 End Cap Fitting				
FREC4X4YL	Used for closing off open ends of the channel or fittings. No coupler required. Push-on installation.	—	1	5
4x4 Inside Vertical 90° Angle Fitting				
FRIVRA4X4YL	Attaches to 4x4 channel and/or fittings to create a 90° upward angle from a straight horizontal run. Used with outside vertical 90° angle fitting FROVRA4X4YL to change level of a straight horizontal run. Includes split cover.	(2 pcs.) FRBC4X4YL	1	5
4x4 Inside Vertical 45° Angle Fitting				
FRIV454X4YL	Attaches to 4x4 channel and/or fittings to create a 45° upward angle from a horizontal run. Used with outside vertical 45° angle fitting FROV454X4YL to change level of a straight horizontal run. Includes split cover.	(2 pcs.) FRBC4X4YL	1	5
4x4 Outside Vertical 45° Angle Fitting				
FROV454X4YL	Attaches to 4x4 channel and/or fittings to create a 45° downward angle from a horizontal run. Used with inside vertical 45° angle fitting FRIV454X4YL to change level of a straight horizontal run. Accepts optional split cover FROV45SC4YL.	(2 pcs.) FRBC4X4YL	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

4x4 *FiberRunner*® System Fittings (continued)



FROV45SC4



FROVRA4X4



FROVRASC4



FRRF6FR4



FRRF6FR4SC



FRRF4FD2



FRRF4FD4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
Split Cover for 4x4 Outside Vertical 45° Angle Fitting				
FROV45SC4YL	Optional split cover for the outside vertical 45° angle fitting FROV454X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
4x4 Outside Vertical Right Angle Fitting				
FROVRA4X4YL	Attaches to 4x4 channel and/or fittings to create a 90° vertical turn down from a straight horizontal run. Accepts optional split cover FROVRASC4YL.	(2 pcs.) FRBC4X4YL	1	5
Split Cover for 4x4 Outside Vertical Right Angle Fitting				
FROVRASC4YL	Optional split cover for the outside vertical right angle fitting FROVRA4X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
6x4 to 4x4 *FiberRunner*® Reducer Fitting				
FRRF6FR4YL	Attaches any 6x4 *FiberRunner*® Fitting or Channel to any 4x4 *FiberRunner*® Fitting or Channel. Accepts split cover FRRF6FR4SCYL.	(1 pc.) FRBC6X4YL (1 pc.) FRBC4X4YL	1	5
Split Cover for 6x4 to 4x4 *FiberRunner*® Reducer Fitting				
FRRF6FR4SCYL	Optional split cover for the 6x4 *FiberRunner*® to 4x4 *FiberRunner*® Reducer Fitting FRRF6FR4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 3/4" (19mm) opening for easy access to add or remove cables.	—	1	5
4x4 *FiberRunner*® to 2x2 Reducer Fitting with Cover				
FRRF4FD2YL	Attaches any 4x4 *FiberRunner*® Fitting or Channel to the 2x2 *Fiber-Duct*™ Channel, S2X2YL6 or E2X2YL6 or 2x2 *FiberRunner*® Channel, HS2X2YL6 or H2X2YL6. Note: Attachment to 2x2 *FiberRunner*® Channel requires a *QuikLock*™ Coupler FBC2X2YL. Includes solid cover.	(1 pc.) FRBC4X4YL	1	5
4x4 *FiberRunner*® to 4x4 *Fiber-Duct*™ Reducer Fitting with Cover				
FRRF4FD4YL	Attaches any 4x4 *FiberRunner*® Fitting or Channel to the 4x4 *Fiber-Duct*™ Channel, S4X4YL6 or E4X4YL6. Includes solid cover.	(1 pc.) FRBC4X4YL	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

4x4 *FiberRunner*® System Spillouts

- Spill-overs allow safe transition from horizontal to vertical runs
- 2" (50.8mm) bend radius control
- Transition to channel, slotted channel, and corrugated loom tubing
- Spill-over junction fittings can be retro-fitted to existing horizontal runs



FRVT4X4



FTR4X4



FIDT4X4BL



FRHD4KT



TRC4HDBL



FRLPR42BL

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
4x4 *QuikLock*™ Vertical Tee				
FRVT4X4YL	Attaches to 4x4 channel and/or fittings to create a 90° vertical drop from a horizontal run. Hinged door included. Accepts FTR4X4YL, FIDT4X4BL, S4X4YL6 or E4X4YL6 directly. Accepts optional snap-on cover FRHC4YL6 in conjunction with channel.	(2 pcs.) FRBC4X4YL	1	5
3-Sided Vertical Tee Trumpet Spillout				
FTR4X4YL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from a 4x4 or 6x4 *FiberRunner*® Vertical Tee and 4x4 *Fiber-Duct*™ Fittings.	—	1	5
2-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FIDT4X4BL	Used to route cable into one or two pieces of 1.5" (38mm) diameter split corrugated tubing. Used with FRVT6X4YL, FRVT4X4YL, or FVT4X4YL. Securely holds corrugated split tubing to ensure system integrity and easy access to add or remove cables. Black color only.	—	1	5
4x4 Hinged Duct Vertical Cable Manager Kit				
FRHD4KTYL	Provides secure, accessible route for cables spilling out from vertical tee to rack mounted equipment. Kit includes 6' length of 4x4 capacity hinged duct, 6' length of 4x4 hinged duct cover, one end cap for 4x4 hinged duct, three FZBA1.5X4 adjustable "Z" brackets, an adapter fitting, six WR4-C wire retainers and all required mounting hardware. Attaches directly to 6x4 and 4x4 vertical tee exit or FRLPR64 low profile reducer.	—	1	—
4x4 Hinged Duct Bend Radius Control Trumpet				
TRC4HDBL	Bend radius control trumpet for exiting at the sidewall of 4" wall heights of type H hinged cover wiring duct channels. Maintains 1" (25.4mm) bend radius control. Black color only.	—	1	—
Low Profile Reducer 4x4 to 2x2 for Vertical Tee				
FRLPR42BL	Assembled into the 6x4 vertical tee FRVT6X4YL or 4x4 vertical tee FRVT4X4YL with an audible snap, the FRLPR42BL allows for the transition to 2x2 *FiberRunner*® or 2x2 *Fiber-Duct*™ Channel with minimal space required. No tools required for assembly. Black color only.	—	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

4x4 *FiberRunner*® System Spillouts (continued)



FRSP



FRSP4C



FTR2X2



FIDT2X2



FRHD2KT



TRC2HDBL



FRSP4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
Spill-Over Junction with 2x2 Exit				
FRSPYL	Assembles onto 4x4, 6x4, or 12x4 *FiberRunner*® Channel, spilling over the side into a 2x2 vertical channel, fitting, or corrugated tube. Mounts directly to existing installation with no alteration required. Mounting hardware provided for secure attachment.	—	1	—
Cover for Spill-Over Junction with 2x2 Exit for 4x4 Channel				
FRSP4CYL	Used to fully enclose 4x4 channel in conjunction with the spill-over junction FRSPYL. Cover snaps onto the channel base. Hinged feature allows easy access to add or remove cables.	—	1	5
3-Sided BRC Trumpet Spillout for 2x2 Exit				
FTR2X2YL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from a *FiberRunner*® Spill-Over FRSPYL or from 2x2 *Fiber-Duct*™ Channel.	(1 pc.) FBC2X2YL	1	5
1-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FIDT2X2YL	Used to route cable into one piece of 1.5" (38mm) diameter split corrugated tubing. Used with *FiberRunner*® Spill-Over FRSPYL, 2x2 *Fiber-Duct*™ Fittings, and the 2x2 *FiberRunner*® Hinged Channel. Securely holds split corrugated tubing to ensure system integrity and easy access to add or remove cables.	(1 pc.) FBC2X2YL	1	5
2x2 Hinged Duct Vertical Cable Manager Kit				
FRHD2KTYL	Provides secure, accessible route for cables spilling out from a vertical tee or spill-over junction to rack mounted equipment. Kit includes 6' length of 2x2 *FiberRunner*® Hinged Channel H2X2YL6, 6' length of 2x2 snap-on hinged cover HC2YL6, four adjustable "Z" brackets FZBA1.5X4, one *FiberRunner*® 2x2 End Cap FHDEC2X2YL, six hinged duct 2" wire retainers WR2H-C and all required mounting hardware. Attaches to 2x2 vertical tee exit or spill-over junction with a 2x2 exit with a 2x2 *QuikLock*™ Coupler FBC2X2YL. Also attaches directly to 4x4 or 6x4 vertical tee exits with low profile reducer FRLPR42BL. Yellow and orange colors only.	—	1	—
2x2 *FiberRunner*® Bend Radius Control Trumpet				
TRC2HDBL	Bend radius control trumpet for exiting at the sidewall of 2" wall heights of type H hinged cover wiring duct channels. Maintains 1" (25.4mm) bend radius control. Black color only.	—	1	10
Spill-Over Junction with 4x4 Exit				
FRSP4YL	Assembles onto 4x4, 6x4, or 12x4 *FiberRunner*® Channel, spilling over the side into a 4x4 vertical exit. Requires coupler to attach 4x4 *FiberRunner*® Channel and Fittings to the vertical exit. Mounts directly to existing installation with no alteration required. Mounting hardware provided for secure attachment.	(1 pc.) FRBC4X4YL	1	—

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Table continued on page J.38

4x4 *FiberRunner*® System Spillouts (continued)



FRSP44C



FRTR4X4



FRIDT4X4



FR1.5IDE



FRUPS4X4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
Cover for Spill-Over Junction with 4x4 Exit for 4x4 Channel				
FRSP44CYL	Used to fully enclose the 4x4 channel in conjunction with the spill-over junction FRSP4YL. Cover snaps onto the channel base. Hinged feature allows easy access to add or remove cables.	—	1	5
3-Sided BRC Trumpet Spillout for 4x4 *FiberRunner*® Exit				
FRTR4X4YL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from 4x4 *FiberRunner*® Channel or a 4x4 *FiberRunner*® Horizontal Tee.	(1 pc.) FRBC4X4YL	1	5
2-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FRIDT4X4YL	Used to route cable into one or two pieces of 1.5" (38mm) diameter split corrugated tubing. Requires coupler to be used with 4x4 *FiberRunner*® Fitting. Used with any 4x4 *FiberRunner*® Fitting. Securely holds corrugated split tubing to ensure system integrity and easy access to add or remove cables.	(1 pc.) FRBC4X4YL	1	5
1-Port Spillout Side Exit to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FR1.5IDEYL	Used to route cable into 1.5" (38mm) diameter split corrugated tubing directly through a hole cut in the side wall of the 4x4, 6x4, and 12x4 *FiberRunner*® Channel or 4x4 *Fiber-Duct*™ Channel. Provides 1" (25.4mm) bend radius control at the exit. Securely holds split corrugated tubing to ensure system integrity and easy access to add or remove cables. Includes drilling template.	—	1	5
4x4 Up Spout				
FRUPS4X4YL	Allows cable to be directed upward out of the channel deployed directly below racks and cabinets in underfloor installations. Provides 2" (50.8mm) bend radius. Snaps directly onto the channel and can be positioned to allow cables to be laid in. A 1" (25.4mm) top bezel is included. Other fittings can be installed for specific applications including FTR4X4YL and FIDT4X4BL.	—	1	5

For other colors replace suffix YL (Yellow) with OR (Orange) or BL (Black).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

FiberRunner® Accessories


FR38DR


FR716DR


FR516DR


FRUIB-X


FRSSM2


FRSTRCLIP


FRTBKT-X

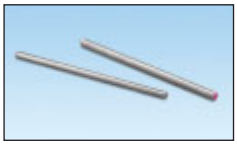
Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
3/8" Nut Driver				
FR38DR	Used to disassemble 4x4, 6x4, and 12x4 *FiberRunner*® *QuikLock*™ Couplers when required.	—	1	10
7/16" Nut Driver				
FR716DR	Used to assemble *QuikLock*™ Bracket slide clamps.	—	1	10
5/16" Nut Driver				
FR516DR	Used to disassemble 2x2 *FiberRunner*® *QuikLock*™ Couplers when required.	—	1	10
Universal Innerduct Bracket				
FRUIB-X	Used to secure any size corrugated tubing or inner-duct to any surface including equipment racks and channel or fittings. Two 1/4" (6.3 mm) holes must be drilled through to secure brackets.	—	10	100
Slack Spool Manager with 2.37" Bend Radius Diameter				
FRSSM2	The slack spool manager can be mounted in 12x4, 6x4, and 4x4 *FiberRunner*® Channels and in 4x4 *Fiber-Duct*™ Channel to create an in-channel slack management. It can be deployed in a vertical or horizontal channel run and can withstand a 20 lb. load without pulling away from the base. Mounting fasteners are included.	—	1	5
Strut Clip Kit				
FRSTRCLIP	Strut mounting clip assembly allows *FiberRunner*® Channel to be attached directly to standard 1 5/8" wide strut structures. Contains two clips and all hardware for assembly. Bolts release with 7/16" nut driver.	—	1	10
1/4" T-Bolt Kit				
FRTBKT-X	T-bolts can be used for additional attachment when securing *FiberRunner*® Channel to mounting brackets. For example, a T-bolt can be inserted thru a 12x4 mounting bracket and positioned within the center rib structure on the underside of 12x4 channel. By tightening the nut, the 12x4 channel is more securely fastened to the mounting bracket.	—	10	100

Table continued on page J.40

FiberRunner® Accessories (continued)



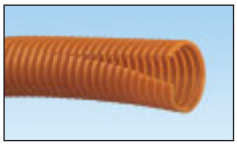
FRQMC-X



TR1-12-X
TR1-58-X



TRC18FR-X8



CLT150F-X3

Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
FiberRunner® Quick Mount Clips				
FRQMC-X	Used wherever additional *FiberRunner*® Slide Clamps would be helpful. For example, use on 12x4 *FiberRunner*® *QuikLock*™ Brackets to accommodate dual runs of 6x4 or 4x4 *FiberRunner*® Channel.	—	10	100
Threaded Rod in One Foot Lengths				
TR1-12-X	Threaded rod can be used with various mounting brackets. Length = 12" (305mm).	1/2"	10	—
TR1-58-X	Threaded rod can be used with various mounting brackets. Length = 12" (305mm).	5/8"	10	—
Threaded Rod Cover				
TRC18FR-X8	Used to protect cabling from threaded rod. Vertical slit allows easy installation. Material meets UL 94V-0 specifications. For indoor use only. Available in 18" lengths.	1/2" – 5/8"	10	100
Slit Corrugated Loom Tubing				
CLT150F-X3*	Slit corrugated loom tubing provides a vertical pathway as cables transfer from the *FiberRunner*® Fitting to the equipment below. Inside diameter is 1.5" (38.1mm) and outside diameter 1.7" (43.2mm). Sold in 10' rolls.	—	1	—

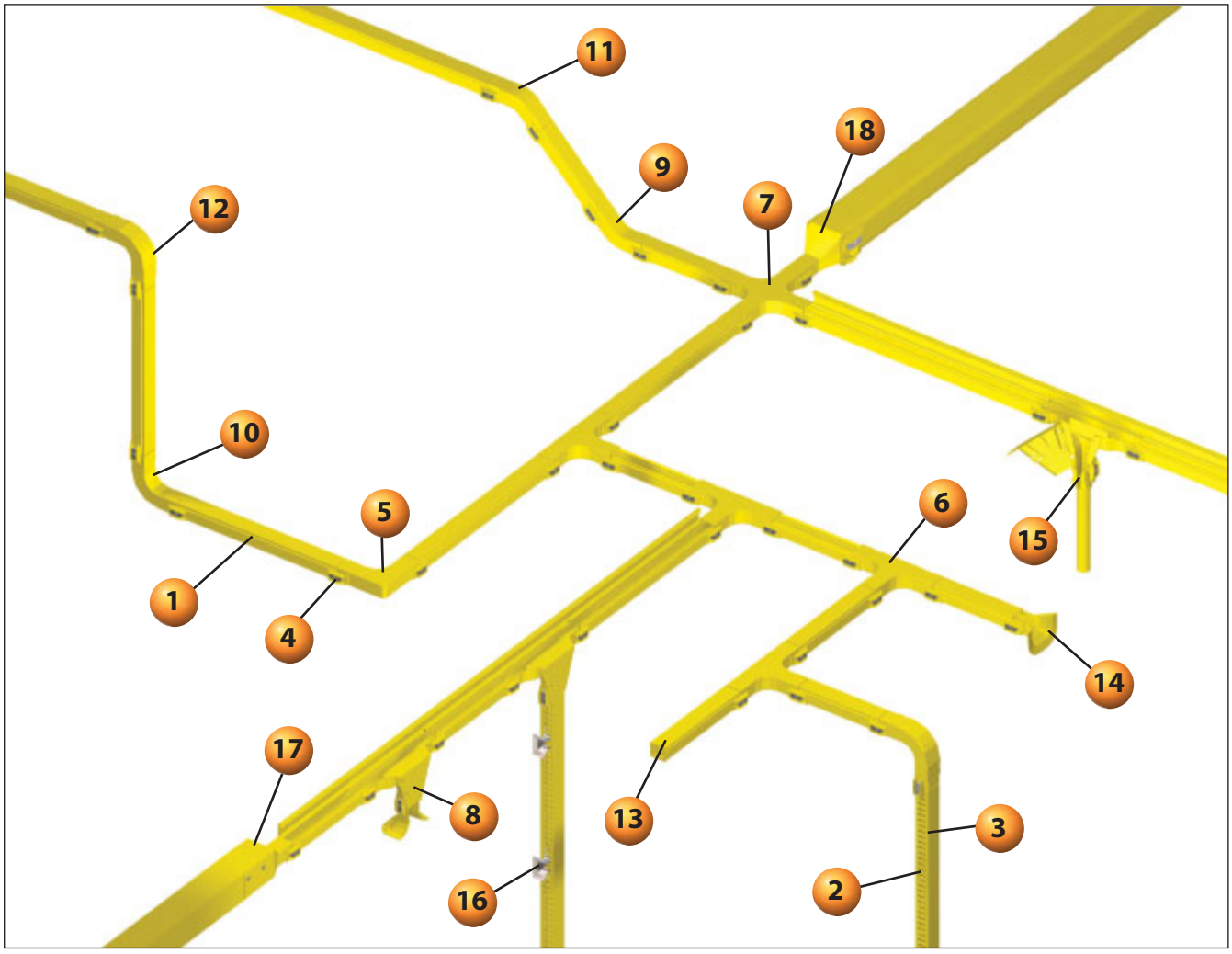
*For other colors replace suffix X3 (Orange) with X4 (Yellow) or X20 (Black).

Order number of pieces required, in multiples of Standard Package Quantity.

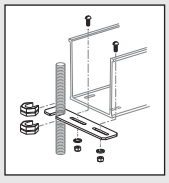
Prime items appear in **BOLD**.

NOTES

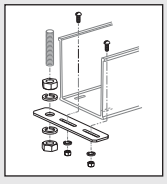
2x2 Routing System Roadmap



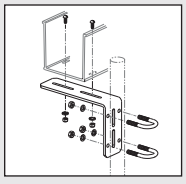
FIBER-DUCT™ Mounting Brackets



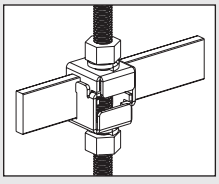
FTRBE12 – Existing Threaded Rod Bracket (page J.55)



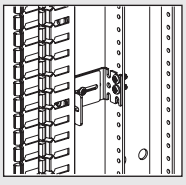
FTRBN12 – New Threaded Rod Bracket (page J.55)



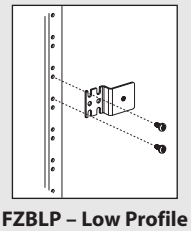
FUSB – Underfloor Pedestal Bracket (page J.55)



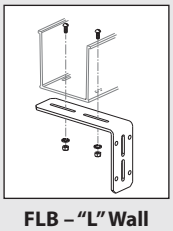
F2PCLB12 – Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1 1/2" – 2" Ladder Rack (page J.56)



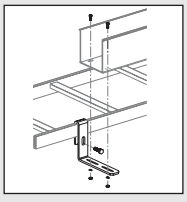
FZBA1.5X4 – Adjustable "Z" Bracket (page J.56)



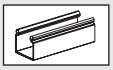
FZBLP – Low Profile "Z" Bracket (page J.56)

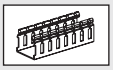


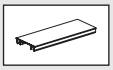
FLB – "L" Wall Mount Bracket (page J.55)



FLRB – Ladder Rack Bracket (page J.55)


1 HS2X2**6 – 2x2 *FiberRunner*® Hinged Channel (page J.44)

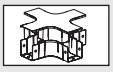

2 H2X2**6 – 2x2 *FiberRunner*® Hinged Slotted Channel (page J.44)

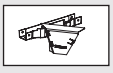

3 HC2**6 – 2x2 *FiberRunner*® Snap-On Hinged Cover (page J.44)


4 FBC2X2** – 2x2 *QuikLock*™ Coupler (page J.45)

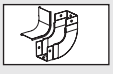

5 FRA2X2** – 2x2 Horizontal Right Angle Fitting (page J.52)


6 FT2X2** – 2x2 Horizontal Tee Fitting (page J.52)

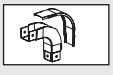

7 FFWC2X2** – 2x2 4-Way Cross Fitting (page J.52)


8 FVTHD2X2** – 2x2 Vertical Tee (page J.46)

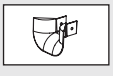

9 FIV452X2** – 2x2 Inside Vertical 45° Angle Fitting (page J.52)

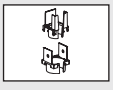

10 FIVRA2X2** – 2x2 Inside Vertical Right Angle Fitting (page J.52)


11 FOV452X2** – 2x2 Outside 45° Angle Fitting (page J.52)


12 FOVRA2X2** – 2x2 Outside Vertical Right Angle Fitting (page J.52)


13 FHDEC2X2** – 2x2 End Cap Fitting (page J.45)


14 FTR2X2** – 3-Sided BRC Trumpet Spillout for 2x2 Exit (page J.46)


15 FIDT2X2** – 1-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.46)


16 TRC2HDBL – 2x2 Hinged Channel 1" Bend Radius Control Trumpet (page J.46)


17 FRF42** – 4x4 to 2x2 *Fiber-Duct*™ Reducer Fitting (page J.52)

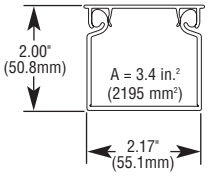

18 FRRF4FD2** – 4x4 *FiberRunner*® to 2x2 Reducer Fitting (page J.35)

**Available colors include: YL (Yellow), OR (Orange), BL (Black) and LG (Light Gray).

2x2 *FiberRunner*® Routing System

Cable Fills for 2x2 *FiberRunner*® Cable Routing System





The maximum amounts may vary according to the cable fill installation methods, straightness of cables, etc.

2x2 *FiberRunner*® Cable Routing System							
Fill/Pile Up	Internal Area in²	Diameter .063" 1.6mm	Diameter .079" 2.0mm	Diameter .118" 3.0mm	Category 6A Diameter .298" 7.57mm	Fiber Optic Ribbon Interconnect Cable Diameter .205" 5.20mm	Category 6 Diameter .25" 6.35mm
40% Fill							
2" Pile Up	3.4	436	279	124	19	41	28
50% Fill							
2" Pile Up	3.4	546	349	155	24	52	35
60% Fill							
2" Pile Up	3.4	655	419	186	29	62	42

Channel cutting instructions: For optimum results, use a miter box and saw. For larger quantities use a plastic cutting saw blade for clean, burr-free cuts. Recommend: Carbide 80T and 100T; .090" thickness, .125" kerf.

2x2 *FiberRunner*® Routing System – Channels and Cover

- 2x2 system ideal for use with smaller cable counts
- Multiple spillout options provide versatility to mate to various equipment and rack configurations
- *QuikLock*™ Couplers reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Compatible with all sizes of *PANDUIT*® *FiberRunner*® and *PANDUIT*® *Fiber-Duct*™ Routing Systems, cable management, and racks
- 2x2 *FiberRunner*® Hinged and Slotted Channels can be used with 2x2 *Fiber-Duct*™ fittings (see page J.52) and brackets (see pages J.55 and J.56)
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS) Level 3



HS2X2



H2X2



HC2



WR2H-C

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
2x2 *FiberRunner*® Hinged Channel			
HS2X2YL6NM	Used to carry the cables throughout the system. Accepts hinged cover HC2YL6. Use *QuikLock*™ Coupler FBC2X2YL to attach channel and/or fittings.	6	120
2x2 *FiberRunner*® Hinged Slotted Channel			
H2X2YL6	Used to carry the cables vertically to the front or the back of equipment racks throughout the system. Accepts hinged cover HC2YL6. Extra supports required when used in horizontal applications. Use *QuikLock*™ Coupler FBC2X2YL to attach channel and/or fittings.	6	120
2x2 Snap-On Hinged Cover			
HC2YL6	Optional snap-on cover for hinged channel HS2X2YL6 or H2X2YL6. The innovative cover can hinge open to 90° from either side of the channel and be removed completely if desired.	6	120
Cable Retainer for 2x2 System			
WR2H-C	Cable retainer can be installed between the slotted channel (H2X2YL6) fingers to retain cables. It can be used with cover and installs anywhere on channel. One retainer should be used approximately every 18" (457mm). Black color only.	100	1000

NOTE: Available with mounting holes. To order, delete NM from the part number.
For other colors replace YL (Yellow) with OR (Orange), BL (Black), or LG (Light Gray).
Order number of feet required, in multiples of standard 6' length increments.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

2x2 *FIBERRUNNER*® *QUIKLOCK*™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FBC2X2YL	Pre-assembled coupler quickly joins two sections of hinged channel and/or fittings. Mechanically attaches without tightening bolts. Bolts release using 5/16" nut driver to allow coupler to be removed if necessary.	1	5

For other colors replace suffix YL (Yellow) with OR (Orange), BL (Black), or LG (Light Gray).

2x2 *FIBERRUNNER*® System Fitting



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FHDEC2X2YL	Used for closing off open ends of the hinged channel or fittings. No coupler required. Push-on installation.	1	5

For other colors replace suffix YL (Yellow) with OR (Orange), BL (Black), or LG (Light Gray).

2x2 *FiberRunner*® System Spillouts

- Spill-overs allow safe transition from horizontal to vertical runs
- 2" bend radius control
- Transition to channel, slotted channel, and corrugated loom tubing



FVTHD2X2



FTR2X2



FIDT2X2



FRHD2KT



TRC2HDBL

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
2x2 Vertical Tee				
FVTHD2X2YL	Attaches to 2x2 channel to create a 90° vertical drop from a horizontal run. Hinged door included. Accepts channel cover in conjunction with channel. Use *QuikLock*™ Coupler FBC2X2YL with HS2X2YL6 or H2X2YL6 channels. Use snap rivets NR2WH-L or bolts F14PN-L with S2X2YL6 or E2X2YL6 channels. Also accepts FIDT2X2YL.	(2 pcs.) FBC2X2YL	1	5
3-Sided BRC Trumpet Spillout for 2x2 Exit				
FTR2X2YL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from a *FiberRunner*® Spill-Over FRSPYL or from 2x2 *Fiber-Duct*™ Channel.	(1 pc.) FBC2X2YL	1	5
1-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FIDT2X2YL	Used to route cable into one piece of 1.5" (38mm) diameter split corrugated tubing. Used with *FiberRunner*® Spill-Over FRSPYL, 2x2 *Fiber-Duct*™ Fittings, and the 2x2 *FiberRunner*® Hinged Channel. Securely holds split corrugated tubing to ensure system integrity and easy access to add or remove cables.	(1 pc.) FBC2X2YL	1	5
2x2 Hinged Duct Vertical Cable Manager Kit				
FRHD2KTYL	Provides secure, accessible route for cables spilling out from a vertical tee or spill-over junction to rack mounted equipment. Kit includes 6' length of 2x2 *FiberRunner*® Hinged Channel H2X2YL6, 6' length of 2x2 snap-on hinged cover HC2YL6, four adjustable "Z" brackets FZBA1.5X4, one *FiberRunner*® 2x2 End Cap FHDEC2X2YL, six hinged duct 2" wire retainers WR2H-C and all required mounting hardware. Attaches to 2x2 vertical tee exit or spill-over junction with a 2x2 exit with a 2x2 *QuikLock*™ Coupler FBC2X2YL. Also attaches directly to 4x4 or 6x4 vertical tee exits with low profile reducer FRLPR42BL. Yellow and orange colors only.	—	1	—
2x2 *FiberRunner*® Bend Radius Control Trumpet				
TRC2HDBL	Bend radius control trumpet for exiting at the sidewall of 2" wall heights of type H hinged cover wiring duct channels. Maintains 1" (25.4mm) bend radius control. Black color only.	—	1	10

For other colors replace suffix YL (Yellow) with OR (Orange), BL (Black), or LG (Light Gray).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

FIBER-DUCT™ ROUTING SYSTEMS

PANDUIT provides leading solutions for cable routing. These routing products are compatible with our cable management solutions increasing your ability to maintain an orderly and clean work environment, implement quick and easy moves, adds, and changes, and maintain the integrity of your fiber and copper cabling plant in order to maximize long-term performance.

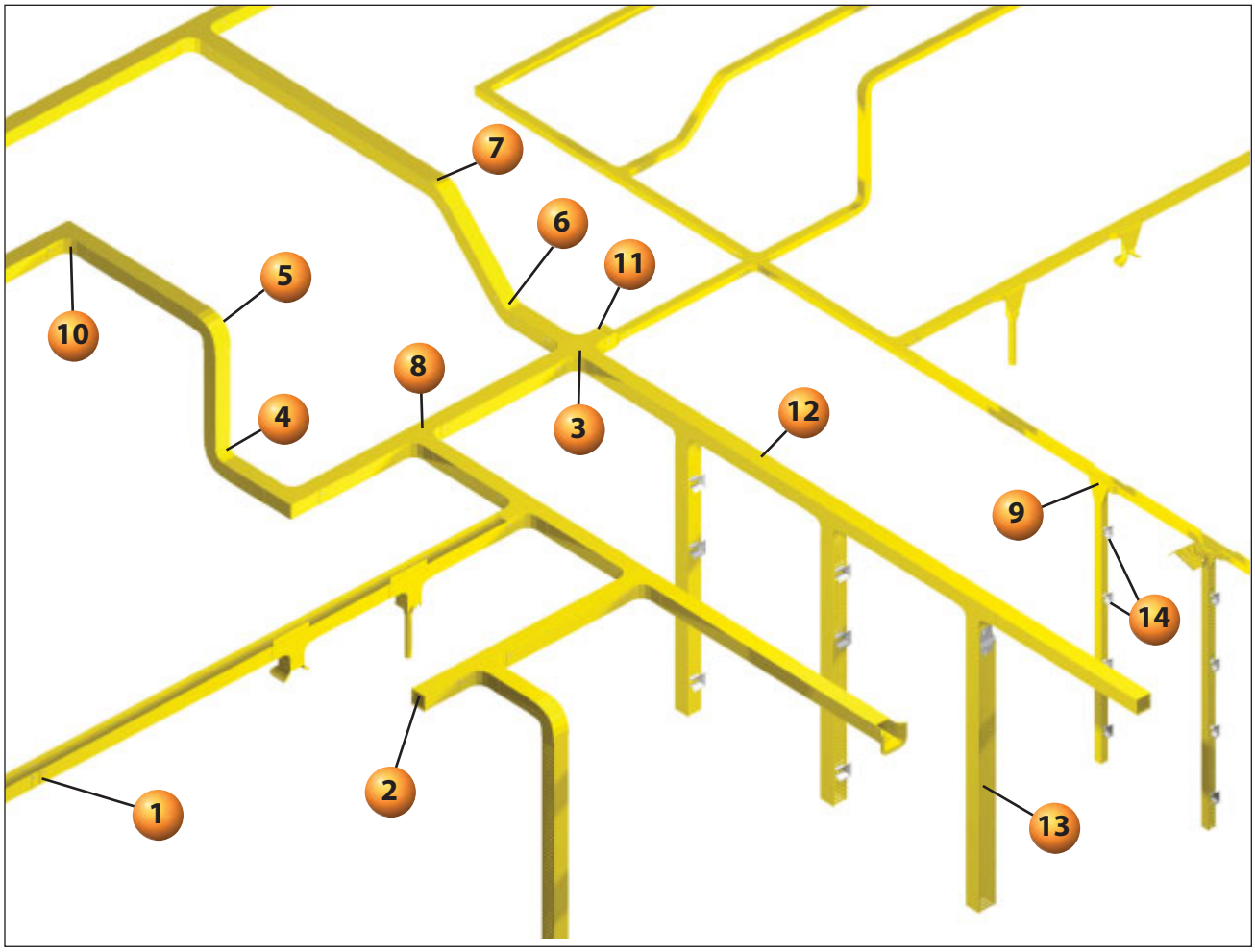


- **Two system sizes available: 4x4 and 2x2**
- **Minimum 2" (50.8mm) bend radius fittings protect against signal loss due to excessive cable bends**
- **Optimized for use with *PAN-NET*® Network Solutions**
- **Snap-on non-slip covers**
- **Compatible with *PANDUIT*® *FIBERRUNNER*® 12x4, 6x4, 4x4 and 2x2 Routing Systems**

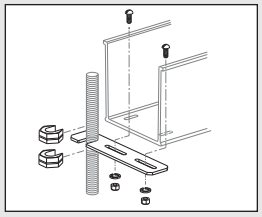
The 2x2 and 4x4 *FIBER-DUCT*™ Routing Systems are comprised of channel, fittings, and brackets designed to segregate, route, and protect fiber optic and copper cabling to and between racks within the telecommunications room.

As part of the *PANDUIT* Data Center Solution, *FIBER-DUCT*™ Routing Systems offers secure, reliable system integration and risk management within the physical infrastructure.

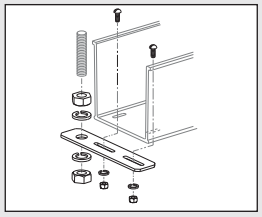
2x2 and 4x4 *FIBER-DUCT*™ Routing Systems Roadmap



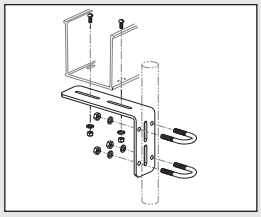
FIBER-DUCT™ Mounting Brackets



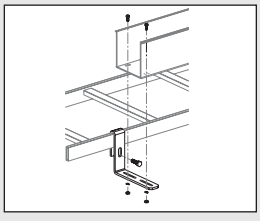
FTRBE12 – Existing Threaded Rod Bracket (page J.55)



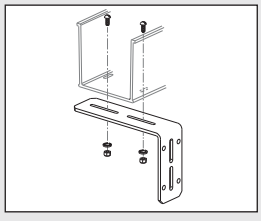
FTRBN12 – New Threaded Rod Bracket (page J.55)



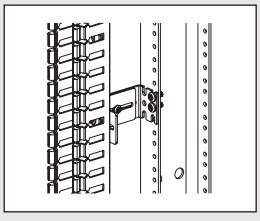
FUSB – Underfloor Pedestal Bracket (page J.55)



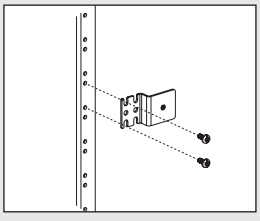
FLRB – Ladder Rack Bracket (page J.55)



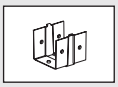
FLB – "L" Wall Mount Bracket (page J.55)

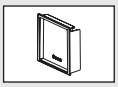


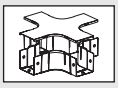
FZBA1.5X4 – Adjustable "Z" Bracket (page J.56)

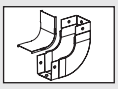


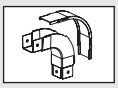
FZBLP – Low Profile "Z" Bracket (page J.56)


1. FCF2X2** and FCF4X4 – Coupler Fitting (page J.52)

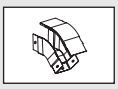

2. FEC2X2** and FEC4X4** – End Cap Fitting (page J.52)

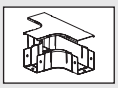

3. FFWC2X2** and FFWC4X4** – 4-Way Cross Fitting (page J.52)

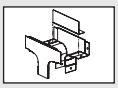

4. FIVRA2X2** and FIVRA4x4** – Inside Vertical Right Angle (page J.52)


5. FOVRA2X2** and FOVRA4X4** – Outside Vertical Right Angle (page J.52)

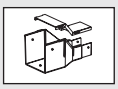

6. FIV452X2** and FIV454X4** – Inside Vertical 45° Angle (page J.52)

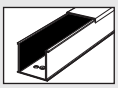

7. FOV452X2** and FOV454X4** – Outside Vertical 45° Angle (page J.52)

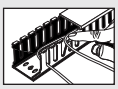

8. FT2X2** and FT4X4** – Horizontal Tee Fitting (page J.52)

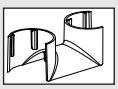

9. FVT4X4** – 4x4 Vertical Tee (page J.53)


10. FRA2X2** – FRA4X4** – Right Angle Fitting (page J.52)


11. FRF42** – 4x4 to 2x2 *Fiber-Duct*™ Reducer Fitting (page J.52)


12. S2X2**6NM and S4X4**6NM *Fiber-Duct*™ Channel (page J.51)


13. E2X2**6 and E4X4**6 *Fiber-Duct*™ Slotted Channel (page J.51)

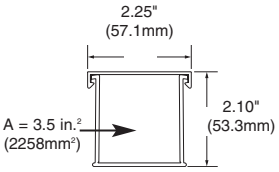

14. TRC2BL and TRC4BL – Bend Radius Control Trumpet (page J.54)

**Available colors include: YL (Yellow), OR (Orange), BL (Black), and LG (Light Gray).

2x2 and 4x4 *FIBER-DUCT*™ Routing Systems

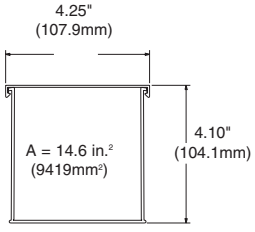
Cable Fills for 2x2 and 4x4 *FIBER-DUCT*™ Cable Routing Systems

The maximum amounts may vary according to the cable fill installation methods, straightness of cables, etc.



2x2 *FIBER-DUCT*™ Cable Routing System							
Fill/Pile Up	**Internal Area in²**	**Diameter .063" 1.6mm**	**Diameter .079" 2.0mm**	**Diameter .118" 3.0mm**	**Category 6A Diameter .298" 7.57mm**	**Fiber Optic Flat Ribbon Interconnect Cable .205" 5.20mm**	**Cat. 6 Diameter .250" 6.35mm**
40% Fill							
2" Pile Up	3.5	449	288	128	20	42	29
50% Fill							
2" Pile Up	3.5	562	359	160	25	53	36
60% Fill							
2" Pile Up	3.5	674	431	192	30	64	43

Channel cutting instructions: For optimum results, use a miter box and saw. For larger quantities use a plastic cutting saw blade for clean, burr-free cuts. Recommend: Carbide 80T and 100T; .090" thickness, .125" kerf.



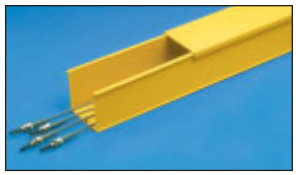
4x4 *FIBER-DUCT*™ Cable Routing System							
Fill/Pile Up	**Internal Area in²**	**Diameter .063" 1.6mm**	**Diameter .079" 2.0mm**	**Diameter .118" 3.0mm**	**Category 6A Diameter .298" 7.57mm**	**Fiber Optic Flat Ribbon Interconnect Cable .205" 5.20mm**	**Cat. 6 Diameter .250" 6.35mm**
40% Fill							
2" Pile Up	7.60	976	624	277	44	92	62
3" Pile Up	11.30	1450	928	413	65	137	92
4" Pile Up	14.60	1874	1199	533	84	177	119
50% Fill							
2" Pile Up	7.60	1219	780	347	54	115	77
3" Pile Up	11.30	1813	1160	516	81	171	115
4" Pile Up	14.60	2343	1499	666	105	221	149
60% Fill							
2" Pile Up	7.60	1463	936	416	65	138	93
3" Pile Up	11.30	2176	1392	619	97	205	138
4" Pile Up	14.60	2811	1799	800	126	265	178

Channel cutting instructions: For optimum results, use a miter box and saw. For larger quantities use a plastic cutting saw blade for clean, burr-free cuts. Recommend: Carbide 80T and 100T; .090" thickness, .125" kerf.

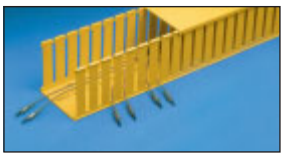
Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

2x2 and 4x4 *FIBER-DUCT*™ Routing Systems

- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Snap-on non-slip covers
- Compatible with *PANDUIT*® *FIBERRUNNER*® 2x2, 4x4, 6x4 and 12x4 Routing Systems



S2X2
S4X4



E2X2
E4X4



C2
C4

Part Number	Part Description	System Size	Std. Pkg. Qty.	Std. Ctn. Qty.
***FIBER-DUCT*™ Channel**				
S2X2YL6NM	Used to carry the cables throughout the *FIBER-DUCT*™ Routing System. Accepts cover C2YL6. Cover sold separately.	2x2	6	120
S4X4YL6NM	Used to carry the cables throughout the *FIBER-DUCT*™ Routing System. Accepts cover C4YL6. Cover sold separately.	4x4	6	60
***FIBER-DUCT*™ Slotted Channel**				
E2X2YL6	Used to carry the cables vertically to the front or the back of equipment racks throughout the system. Accepts cover C2YL6. Extra supports required when used in horizontal applications. Cover sold separately.	2x2	6	120
E4X4YL6	Used to carry the cables vertically to the front or the back of equipment racks throughout the system. Accepts cover C4YL6. Extra supports required when used in horizontal applications. Cover sold separately.	4x4	6	60
***FIBER-DUCT*™ Cover**				
C2YL6	Cover for *FIBER-DUCT*™ Channel and *FIBER-DUCT*™ Slotted Channel. Non-slip cover design incorporates integral high friction lining to inhibit cover movement.	2x2	6	120
C4YL6	Cover for *FIBER-DUCT*™ Channel and *FIBER-DUCT*™ Slotted Channel. Non-slip cover design incorporates integral high friction lining to inhibit cover movement.	4x4	6	120

NOTE: Available with mounting holes. To order, delete NM from the part number.
For fastest installation use NR2WH-L or NR4BL-L snap rivets.
For other colors replace YL (Yellow) with OR (Orange), BL (Black), or LG (Light Gray).
Order number of feet required, in multiples of standard 6' length increments.

FIBER-DUCT™ System Fittings



FCF2X2
FCF4X4



FRA2X2
FRA4X4



FT2X2
FT4X4



FFWC2X2
FFWC4X4



FEC2X2
FEC4X4



FIV452X2
FIV454X4



FOV452X2
FOV454X4



FIVRA2X2
FIVRA4X4



FOVRA2X2
FOVRA4X4



FRF42

Part Number	Part Description	System Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Coupler Fitting				
FCF2X2YL	Used to join two sections of duct together. *FIBER-DUCT*™ Coupler is not required at each fitting connection.	2x2	1	5
FCF4X4YL		4x4	1	5
Horizontal Right Angle Fitting				
FRA2X2YL	Attaches to channel to create a 90° horizontal turn from a straight horizontal run. Cover included.	2x2	1	5
FRA4X4YL		4x4	1	5
Horizontal Tee Fitting				
FT2X2YL	Attaches to channel to create a 90° horizontal branch from a straight horizontal run. Cover included.	2x2	1	5
FT4X4YL		4x4	1	5
Four Way Cross Fitting				
FFWC2X2YL	Attaches to channel to create a horizontal four way cross intersection. Cover included.	2x2	1	5
FFWC4X4YL		4x4	1	5
End Cap Fitting				
FEC2X2YL	Used for closing off open ends of the channel. No coupler required. Push-on installation.	2x2	1	5
FEC4X4YL		4x4	1	5
Inside Vertical 45° Angle Fitting				
FIV452X2YL	Attaches to channel to create a 45° upward angle from a straight horizontal run. Used with outside vertical 45° angle fitting FOV452X2YL or FOV454X4YL to change level of straight horizontal runs. Cover included.	2x2	1	5
FIV454X4YL		4x4	1	5
Outside Vertical 45° Angle Fitting				
FOV452X2YL	Attaches to channel to create a 45° downward angle from a straight horizontal run. Used with inside vertical 45° angle fitting FIV452X2YL or FIV454X4YL to change level of straight horizontal runs. Cover included.	2x2	1	5
FOV454X4YL		4x4	1	5
Inside Vertical Right Angle Fitting				
FIVRA2X2YL	Attaches to channel to create a 90° upward angle from a straight horizontal run. Used with outside vertical 90° angle fitting FOVRA2X2YL or FOVRA4X4YL to change level of straight horizontal runs. Cover included.	2x2	1	5
FIVRA4X4YL		4x4	1	5
Outside Vertical Right Angle Fitting				
FOVRA2X2YL	Attaches to channel to create a 90° downward angle from a straight horizontal run. Used with inside vertical 90° angle fitting FIVRA2X2YL or FIVRA4X4YL to change level of straight horizontal runs. Cover included.	2x2	1	5
FOVRA4X4YL		4x4	1	5
4x4 to 2x2 *FIBER-DUCT*™ Reducer Fitting				
FRF42YL	Joins any 4x4 *FIBER-DUCT*™ Fitting to the 2x2 *FIBER-DUCT*™ Channel, S2X2YL6 or E2X2YL6. Includes cover.	2x2 4x4	1	5

For other colors replace suffix YL (Yellow) with OR (Orange), BL (Black), or LG (Light Gray).
Fittings include 5/16" assembly holes for fast mechanical fastening.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

FIBER-DUCT™ Spillouts



FVTHD2X2



FTR2X2



FIDT2X2



FVT4X4



FTR4X4



FIDT4X4BL

Part Number	Part Description	System Size	Std. Pkg. Qty.	Std. Ctn. Qty.
2x2 Vertical Tee				
FVTHD2X2YL	Attaches to 2x2 channel to create a 90° vertical drop from a horizontal run. Hinged door included. Accepts channel cover in conjunction with channel. Use *QUIKLOCK*™ Coupler FBC2X2YL with HS2X2YL6 or H2X2YL6 channels. Use snap rivets NR2WH-L or bolts F14PN-L with S2X2YL6 or E2X2YL6 channels. Also accepts FIDT2X2YL.	2x2	1	5
3-Sided BRC Trumpet Spillout for 2x2 Exit				
FTR2X2YL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from a *FIBERRUNNER*® Spill-Over FRSPYL or from 2x2 *FIBER-DUCT*™ Channel.	2x2	1	5
1-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FIDT2X2YL	Used to route cable into one piece of 1.5" (38mm) diameter split corrugated tubing. Used with *FIBERRUNNER*® Spill-Over FRSPYL, 2x2 *FIBER-DUCT*™ Fittings, and the 2x2 *FIBERRUNNER*® Hinged Channel. Securely holds split corrugated tubing to ensure system integrity and easy access to add or remove cables.	2x2	1	5
4x4 Vertical Tee				
FVT4X4YL	Attaches to channel to create a 90° vertical drop from a horizontal run. Accepts FIDT4X4BL, FTR4X4YL, S4X4YL6 or E4X4YL6 directly.	4x4	1	5
3-Sided Vertical Tee Trumpet Spillout				
FTR4X4YL	Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from a 4x4 or 6x4 *FIBERRUNNER*® Vertical Tee and 4x4 *FIBER-DUCT*™ Fittings.	4x4	1	5
2-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing				
FIDT4X4BL	Used to route cable into one or two pieces of 1.5" (38mm) diameter split corrugated tubing. Used with FRVT6X4YL, FRVT4X4YL, or FVT4X4YL. Securely holds corrugated split tubing to ensure system integrity and easy access to add or remove cables. Black color only.	4x4	1	5

For other colors replace suffix YL (Yellow) with OR (Orange), BL (Black), or LG (Light Gray).

FIBER-DUCT™ Bend Radius Control Trumpets

- Provide method to transition cabling into rack system
- Maintain 1" (25.4mm) bend radius control



TRC2BL



TRC4BL

Part Number	Part Description	System Size	Std. Pkg. Qty.	Std. Ctn. Qty.
TRC2BL	Bend radius control trumpet for exiting at the sidewall of 2" wall heights of type G, FS or E *FIBER-DUCT*™ Channels.	2x2	1	10
TRC4BL	Bend radius control trumpet for exiting at the sidewall of 4" wall heights of type G, FS or E *FIBER-DUCT*™ Channels.	4x4	1	10

FIBER-DUCT™ Accessories



NR2
NR4



F14PWN-L



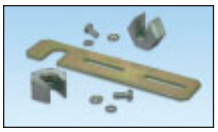
F14PN-L

Part Number	Part Description	System Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Snap Rivets				
NR2WH-L	Snap rivet fastens channel and fittings together for added strength and rigidity. Snap rivet mounts flush to surfaces.	2x2	50	500
NR4BL-L		4x4	50	500
Plastic Bolts and Nuts				
F14PWN-L	1/4" plastic bolts and wing nuts fastens channel and fittings together for added strength and rigidity.	2x2 4x4	50	500
F14PN-L	1/4" plastic bolts and hex nuts fastens channel and fittings together for added strength and rigidity.	2x2 4x4	50	500

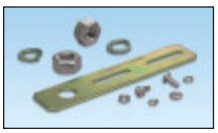
Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

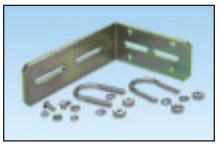
FIBER-DUCT™ Mounting Brackets



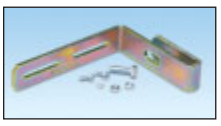
FTRBE12/FTRBE12M
FTRBE58



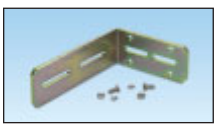
FTRBN12/FTRBN12M
FTRBN58



FUSB



FLRB

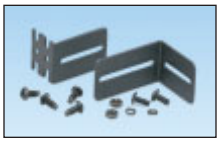


FLB

Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Existing Threaded Rod Bracket for *FIBER-DUCT*™ System				
FTRBE12	Used for supporting the 2x2 and 4x4 *FIBER-DUCT*™ Systems from existing threaded rod installations. Bracket is secured to threaded rod with two split nuts. Contains hardware for attaching to threaded rods and hardware for mounting channel to bracket.	1/2"	1	10
FTRBE12M		12mm	1	10
FTRBE58		5/8"	1	10
New Threaded Rod Bracket for *FIBER-DUCT*™ System				
FTRBN12	Used for supporting the 2x2 and 4x4 *FIBER-DUCT*™ Systems from new threaded rod installations. Bracket is secured to threaded rod with two nuts. Contains hardware for attaching to threaded rods and hardware for mounting channel to bracket.	1/2"	1	10
FTRBN12M		12mm	1	10
FTRBN58		5/8"	1	10
Underfloor Pedestal Bracket for *FIBER-DUCT*™ System				
FUSB	Used to support the 2x2 and 4x4 *FIBER-DUCT*™ Systems by attaching to underfloor pedestal (not included). Use on pedestals up to 1" in diameter. Bracket contains hardware to attach to pedestal and hardware for mounting channel to bracket.	—	1	10
Ladder Rack Bracket for *FIBER-DUCT*™ System				
FLRB	Used to support the 2x2 and 4x4 *FIBER-DUCT*™ Systems attaching directly to any 3/8" (9.5mm) x 1 1/2" (38.1mm) or 3/8" (9.5mm) x 2" (50.8mm) ladder rack rail. No threaded rod required. Contains hardware for mounting channel to bracket.	—	1	10
"L" Wall Mount Bracket for *FIBER-DUCT*™ System				
FLB	Used to support 2x2 and 4x4 *FIBER-DUCT*™ Systems by attaching to a wall or the front or back of an equipment rack. Contains hardware for mounting channel to bracket.	—	1	10

Table continued on page J.56

FIBER-DUCT™ Mounting Brackets (continued)



FZBA1.5X4



FZBLP



F2PCLB12
F2PCLB58



FRAFC58

Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Adjustable "Z" Bracket				
FZBA1.5X4	Bracket used to offset *FIBER-DUCT*™ System from mounting surface, adjustable from 1.5" (38mm) to 4" (101mm). Typically used on the front of an equipment rack.	—	1	10
Low Profile "Z" Bracket				
FZBLP	Bracket used to offset 2x2 or 4x4 *FIBER-DUCT*™ System and hinged duct from the front face of an equipment rack. Bracket provides a secure mounting surface .67" (17mm) from the front of an equipment rack.	—	1	10
Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1 1/2" – 2" Ladder Rack				
F2PCLB12	Two-piece bracket attaches to 3/8" (9.5mm) wide x 1 1/2" (38.1mm) or 3/8" (9.5mm) wide x 2" (50.8mm) ladder rack rail. Bracket halves slide into position and clamp together on the ladder rack rail, which allows for a one-handed assembly of the threaded rod (not included). Contains bracket and hardware for attaching bracket to ladder rack.	1/2"	1	10
F2PCLB58		5/8"	1	10
Two-Piece Framing Clip for Attaching 5/8" Threaded Rod to 2" x 9/16" C-Channel Auxiliary Framing Bars				
FRAFC58	Two-piece framing clip attaches to auxiliary framing bars. Framing clip halves slide into position and interlock on the auxiliary framing bars, allowing easier assembly of the threaded rod to bars. Contains two-piece framing clip and hardware for attaching framing clip to auxiliary framing bars (5/8" threaded rod not included).	5/8"	1	10

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

GridRunner™ Underfloor Cable Routing System

PANDUIT provides an end-to-end solution for the physical layer infrastructure. The *GridRunner*™ Underfloor Cable Routing System is a high capacity, versatile, underfloor cable pathway. It is designed to route and manage copper cables, fiber optic trunk cables, and power cables beneath a raised floor system within data centers and service provider facilities.

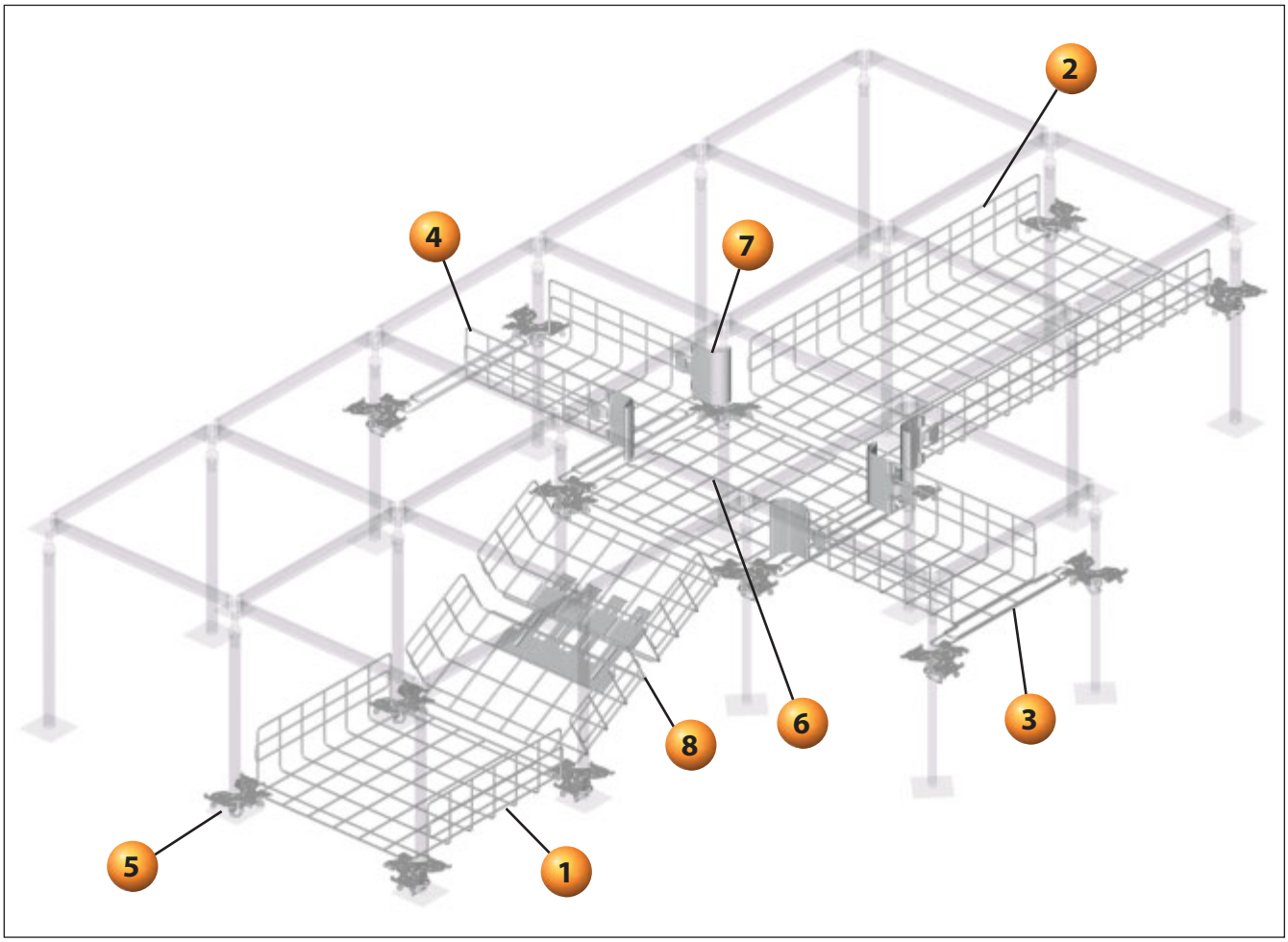


- **Drop-in wire baskets are supplied in either 24" (600mm) or 48" (1200 mm) nominal lengths and require no cutting or deburring of sharp edges**
- **Drop-in wire baskets display all rounded edges, eliminating the opportunity for cables to get damaged during the initial installation and preventing risk of injury to the installer**
- **Pedestal bracket allows fast installation to raised floor pedestals (both round and square tube) with the use of a single tool and a single captured fastener**
- **Pedestal bracket allows for infinite height adjustability during installation**
- **Universal intersection component eliminates the need to field fabricate directional changes speeding specification and implementation**
- **Snap-in bend radius sidewalls provide bend radius control and are easily attached to the wire basket pathway**
- **Unique, adjustable, level change component allows the fast installation of vertical rises and descents without field modification or specification of special fittings**
- **Integral bonding feature of the *GridRunner*™ System ensures that all components are electrically bonded to each other as they are installed**

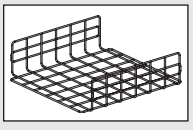
The *GridRunner*™ Underfloor Cable Routing System ensures maximum network reliability and reduced cost of ownership. Robust, highly engineered components provide a strong pathway that supports maximum cable capacity over the lifetime of the data center, providing optimum cable protection and assuring network performance. Fast and easy to deploy, this scalable underfloor cable pathway solution reduces installation costs and speeds implementation of new services.

As part of the *PANDUIT* Data Center Solution, *GridRunner*™ Underfloor Cabling Routing System offers secure, reliable system integration and risk management within the physical infrastructure.

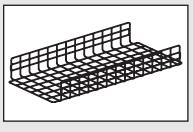
GridRunner™ Underfloor Cable Routing System Roadmap



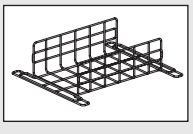
Additional sizes and accessories are available. See pages J.60 through CJ.61.



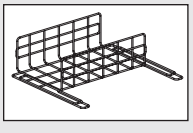
1 **GR21X6X24PG – *GridRunner*™**
21" Wide x 24" Long
Wire Basket Section
(page J.59)



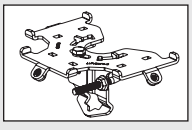
2 **GR21X6X48PG – *GridRunner*™**
21" Wide x 48" Long
Wire Basket Section
(page J.59)



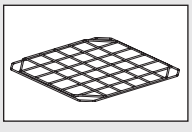
3 **GR12X6X24PG – *GridRunner*™**
12" Wide x 24" Long
Wire Basket Section
(page J.60)



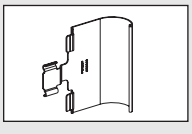
4 **GR12X6X24OSPG – *GridRunner*™**
12" Wide x 24" Long
Offset Wire Basket Section
(page J.60)



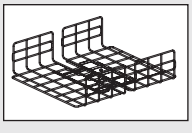
5 **GRPBPG – *GridRunner*™**
Pedestal Bracket
(page J.61)



6 **GRFWC21PG – *GridRunner*™**
Universal Intersection
(page J.61)



7 **GRBRC6PG – *GridRunner*™**
Bend Radius Control
Corner 6" High
(page J.61)

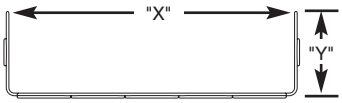


8 **GR21X6X24PG – *GridRunner*™**
21" Wide
Level Change Section
(page J.59)

GRIDRUNNER™ Underfloor Cable Routing System

NEW!

Cable Fills for GRIDRUNNER™ Underfloor Cable Routing System

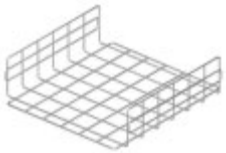


"X"	"Y"	Internal Area In.²	Category 6A Diameter .298" 7.57mm	Fiber Optic Distribution Cable Diameter .500" 12.7mm	Category 6 Diameter .250" 6.35mm
			50% Fill	50% Fill	50% Fill
12.0	4.0	48.0	344	122	489
12.0	6.0	72.0	516	183	733
21.7	4.0	86.8	602	221	885
21.7	6.0	130.3	903	332	1327

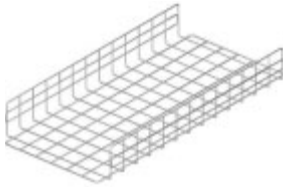
*AWG dimensions represent typical outer cable diameter.

GRIDRUNNER™ Wire Baskets

- Drop-in wire basket sections are supplied in two widths (21" and 12"), two depths (4" and 6"), and two lengths (24" and 48")
- Feature all rounded edges
- Require no cutting or deburring of sharp edges
- Accommodate 24" x 24" and 600mm x 600mm raised floor grids
- Made from pre-galvanized steel wire



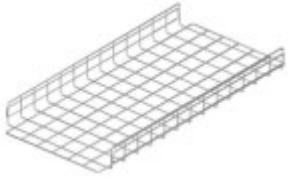
GR21X6X24PG



GR21X6X48PG



GR21X4X24PG



GR21X4X48PG

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
21" Wide Wire Basket Sections			
GR21X6X24PG	21"W x 6"D x 24"L section used to carry cables horizontally throughout the system. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	—	2
GR21X6X48PG	21"W x 6"D x 48"L section used to carry cables horizontally throughout the system. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	—	2
GR21X4X24PG	21"W x 4"D x 24"L section used to carry cables horizontally throughout the system. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	—	2
GR21X4X48PG	21"W x 4"D x 48"L section used to carry cables horizontally throughout the system. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	—	2

Table continues on page J.60

GRIDRUNNER™ Wire Baskets (continued)



GR12X6X24PG



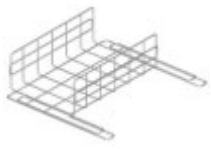
GR12X6X48PG



GR12X4X24PG



GR12X4X48PG



GR12X6X24OSPG



GR12X6X48OSPG



GR12X4X24OSPG



GR12X4X48OSPG

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
12" Wide Wire Basket Sections			
GR12X6X24PG	12"W x 6"D x 4"L section used to carry cables horizontally throughout the system. Centers the basket between pedestal supports. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	—	2
GR12X6X48PG	12"W x 6"D x 48"L section used to carry cables horizontally throughout the system. Centers the basket between pedestal supports. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	—	2
GR12X4X24PG	12"W x 4"D x 24"L section used to carry cables horizontally throughout the system. Centers the basket between pedestal supports. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	—	2
GR12X4X48PG	12"W x 4"D x 48"L section used to carry cables horizontally throughout the system. Centers the basket between pedestal supports. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	—	2
12" Wide Offset Wire Basket Sections			
GR12X6X24OSPG	12"W x 6"D x 24"L section used to carry cables horizontally throughout the system. Offsets 12" basket towards one side. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	—	2
GR12X6X48OSPG	12"W x 6"D x 48"L section used to carry cables horizontally throughout the system. Offsets 12" basket towards one side. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	—	2
GR12X4X24OSPG	12"W x 4"D x 24"L section used to carry cables horizontally throughout the system. Offsets 12" basket towards one side. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	—	2
GR12X4X48OSPG	12"W x 4"D x 48"L section used to carry cables horizontally throughout the system. Offsets 12" basket towards one side. Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor pedestal.	—	2

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

GRIDRUNNER™ Pedestal Bracket

- Allows the wire basket sections to be supported on three sides of a single support bracket
- Forms a mechanical electrical bond to the raised floor pedestal
- Optimized for use with both 7/8" square and 1" diameter raised floor pedestals
- Made from pre-galvanized steel



GRPBPG



GRCLAMPPG-X

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Pedestal Bracket			
GRPBPG	Pre-assembled bracket quickly attaches to all 7/8" square and 1" diameter raised floor pedestals. Provides secure mounting point on three sides of the pedestal for all basket sections and an electrical bond to the pedestal. Use 7/16" nut driver to assemble to pedestal. Requires use of pedestal clamp GRCLAMPPG-X to attach wire baskets, universal intersection, and level change sections to pedestal bracket.	1	10
Pedestal Clamp			
GRCLAMPPG-X	Used in conjunction with pedestal bracket GRPBPG to fasten wire basket sections to the pedestal.	10	100

GRIDRUNNER™ Accessories



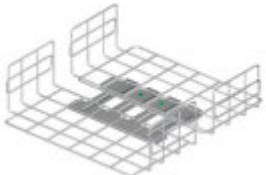
GRFWC21PG



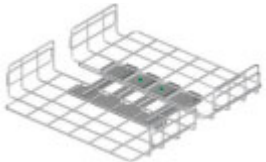
GRBRC6PG



GRBRC4PG



GRLC21X6PG



GRLC21X4PG

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Universal Intersection			
GRFWC21PG	Mounts to GRPBPG pedestal bracket. Use to create four way cross, horizontal tee, right angles and transitions to other size basket sections. Use 7/16" nut driver to assemble.	1	—
Bend Radius Control Corners			
GRBRC6PG	Bend radius control corner for 6" deep basket sections. Device snaps into corners to provide 1.5" (38mm) bend radius control. Sheet metal construction.	1	10
GRBRC4PG	Bend radius control corner for 4" deep basket sections. Device snaps into corners to provide 1.5" (38mm) bend radius control. Sheet metal construction.	1	10
21" Wide Level Change Sections			
GRLC21X6PG	21"W x 6"D level change section used to create vertical offsets up to 12". Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor support pedestal.	1	—
GRLC21X4PG	21"W x 4"D level change section used to create vertical offsets up to 12". Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor support pedestal.	1	—

NOTES

Surface Raceway

Pan-Way® Surface Raceway Systems offer a wide variety of metal and non-metallic surface raceway solutions. All are designed for routing, protecting, and concealing high performance copper, voice, video, fiber optic and power cabling. *Pan-Way®* Surface Raceway Systems provide:







- **Aesthetically pleasing profiles and colors to match your cabling needs**
- **Tamper resistant designs to prevent unauthorized access**
- **Fully compliant bend radius control fittings to insure maximum cable performance**
- **Ease of installation, modification, and additions for the overall lowest installed cost**

PANDUIT surface raceway provides you with a variety of choices when selecting your data and electrical terminations. All raceway systems accept an assortment of faceplates including NEMA standard 70mm screw-on faceplates or superior *PANDUIT* snap-on faceplates.

As part of the *PANDUIT* Connected Building Solution, *PanWay®* Surface Raceway offers safe and secure routing integration within the physical infrastructure.

PANDUIT® PAN-WAY®

METAL SURFACE RACEWAY SOLUTIONS

PAN-WAY® Metal Raceway is a series of single and multi-channel solutions for routing, protecting, concealing and terminating power wire and high performance copper, voice, video or fiber optic cable. *PANDUIT* metal raceway is designed with labor saving features and lower installed cost while incorporating benefits of increased safety and cable protection.



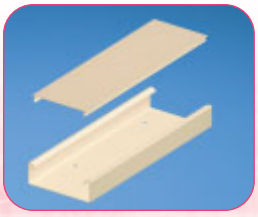
PAN-WAY® PMR5 / PMR7 Metal Raceway System features a patent pending design that provides full continuity of the ground path between fittings and channel for increased electrical safety. This single channel raceway system incorporates an innovative snap-mount assembly method for fast installations and measurable contractor savings. In addition, fittings and mounts can be attached using various types and sizes of fasteners, eliminating the requirements of using only flathead style screws.
(Pages C2.8 – C2.14)*





PANDUIT offers a complete assortment of metal fittings, junction boxes, faceplates and accessories for a variety of choices when selecting power and data termination options. They are available in white or almond to match any décor and most popular electrical outlets.
(Pages C2.15 – C2.17)*





PAN-WAY® PMR40 Metal Raceway System offers an offset snap-on faceplate and divider wall design that locates data terminations outside the data channel for increased data cable capacity. This multi-channel fully compliant TIA/EIA-568-B and 569-B solution maintains a two inch bend radius throughout the system for routing high performance 10 Gigabit copper and fiber cable, accepts NEMA standard double gang faceplates for increased termination options, and fitting covers overlap raceway covers for a finished appearance.
(Pages C2.2 – C2.7)*



As part of the *PANDUIT* Connected Building Solution, *PANWAY®* Metal Surface Raceway offers safe and secure routing integration within the physical infrastructure.

*Page numbers above reference the Electrical Solutions Catalog, SA-ELCB10.

PANDUIT® PAN-WAY®

NON-METALLIC SURFACE RACEWAY SOLUTIONS











PAN-WAY® Non-Metallic Surface Raceway is available in single channel and multi-channel versions, providing maximum flexibility for routing, protecting, concealing and terminating high performance copper, voice, video, fiber optic and power cabling. They are aesthetically pleasing, lightweight, tamper resistant and offer bend radius control fittings. *PANDUIT* non-metallic raceways provide a variety of choices when selecting data and power terminations, accept NEMA standard 70mm faceplates, and work with all *PANDUIT*® MINI-COM® Modules for complete connectivity possibilities.

PAN-WAY® Single Channel Raceway includes LD, LDPH, LDS and OFR which are available in low voltage and/or power rated versions. All single channel raceways include a full complement of fittings for standard, bend radius control, and power rated applications. Office Furniture Raceway also includes a full complement of fittings, accessories, and termination options creating a cost effective furniture routing solution. (Pages C2.68 – C2.74 / C2.76 – C2.82 and C2.93 – C2.102)*

PAN-WAY® Multi-Channel Raceway includes TG-70, T-70/Twin-70, T-45, LD2P10 and Cove. All multi-channel raceways provide solutions for routing power and data cabling, offer 1 inch bend radius control fittings (TG-70 offers a 1.6 bend radius control), accept NEMA standard 70mm faceplates for multiple termination options and transition to other *PANDUIT* non-metallic surface raceways. (Pages C2.19 – C2.50 / C2.64 – C2.67 and C2.75)*

PAN-WAY® Snap-On Faceplates mount directly to Cove, TG-70, T-70, Twin-70, PAN-WAY® FAST-SNAP™ Boxes and PAN-POLE™ Power and Communication Poles and install faster than conventional screw-on faceplates. They install without the use of screws providing faster installation and superior aesthetics. Snap-on communication faceplates are available in horizontal or vertical sloped outlet configurations and the snap-on electrical faceplates are available in 106 duplex and rectangular styles. (Pages C2.51 – C2.61)*

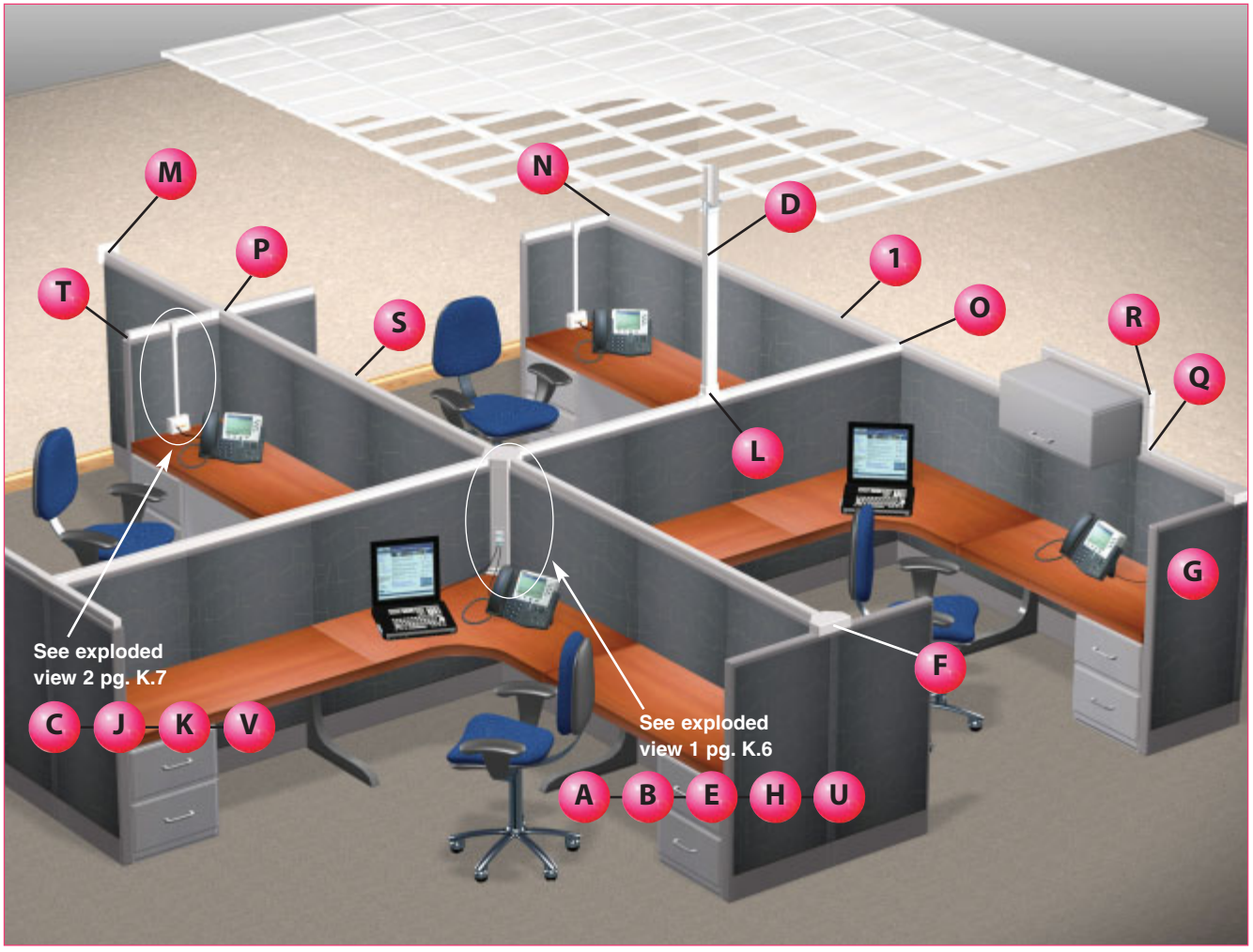
PAN-WAY® Surface Mount Outlet Boxes are available for both power and communication applications. FAST-SNAP™ Boxes assemble without the use of screws and accept PAN-WAY® Snap-On Faceplates. All surface mount boxes are compatible with PAN-WAY® LD, LDPH, LD2P10 and T-45 Raceway Systems. (Pages C2.51 – C2.61)*

PAN-POLE™ Power and Communication Poles provide industry-leading solutions for cable routing in the open office environment. They are available with pre-terminated electrical outlets with divided channel for power and communication applications or as an open channel communication pole. PAN-POLE™ Power and Communication Poles accept NEMA standard 70mm screw-on faceplates or superior PAN-WAY® Snap-On Faceplates. (Pages C2.103 – C2.112)*

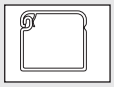
As part of the *PANDUIT* Connected Building Solution, PANWAY® Non-Metallic Surface Raceway offers safe and secure routing integration within the physical infrastructure.

*Page numbers above reference the Electrical Solutions Catalog, SA-ELCB10.

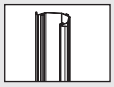
Office Furniture Raceway Roadmap



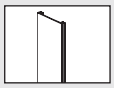
Note: Office furniture raceway is designed to blend with its environment. Shown in white on office slate furniture for illustration purposes only.



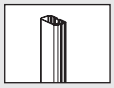
1 **OFR20**6 – Office Furniture Raceway (page K.8)**



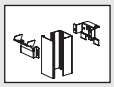
A **OFCR70**6 – Corner Raceway Base (page K.8)**



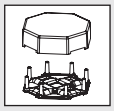
B **OFCRC70**6 – Corner Raceway Cover (page K.8)**



C **OFVR5**6 – Vertical Raceway (page K.8)**



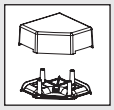
D **OFR20CP**8 – Communication Pole (page K.9)**



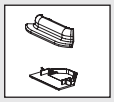
E **OFR20OFCR70**4 – Four Cubicle Drop Fitting (page K.9)**



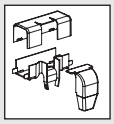
F **OFR20OFCR70**2 – Two Cubicle Drop Fitting (page K.9)**



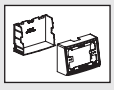
G **OFR20OFCR70**1 – One Cubicle Drop Fitting (page K.9)**



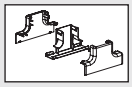
H **OFCR70EC** – End Cap Fitting (page K.10)**



J **OFR20SO** – Spill-Over Fitting (page K.10)**



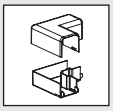
K **OFR20DMB** – Desk Mount Box (page K.10)**



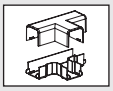
L **OFR20MPT** – Mid Panel Tee Fitting (page K.10)**



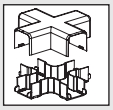
M **OFR20WE** – Wall Entrance Fitting (page K.10)**



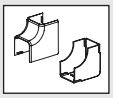
N **OFR20RA** – Right Angle Fitting (page K.10)**



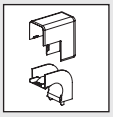
O **OFR20T** – Tee Fitting (page K.10)**



P **OFR20CR** – Cross Fitting (page K.10)**



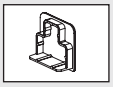
Q **OFR20IC** – Inside Corner Fitting (page K.11)**



R **OFR20OC** – Outside Corner Fitting (page K.11)**



S **OFR20CC** – Coupler Fitting (page K.11)**



T **OFR20EC** – End Cap Fitting (page K.11)**



U **OF70FV4** – Vertical Sloped Communication Snap-On Faceplate (page K.11)**

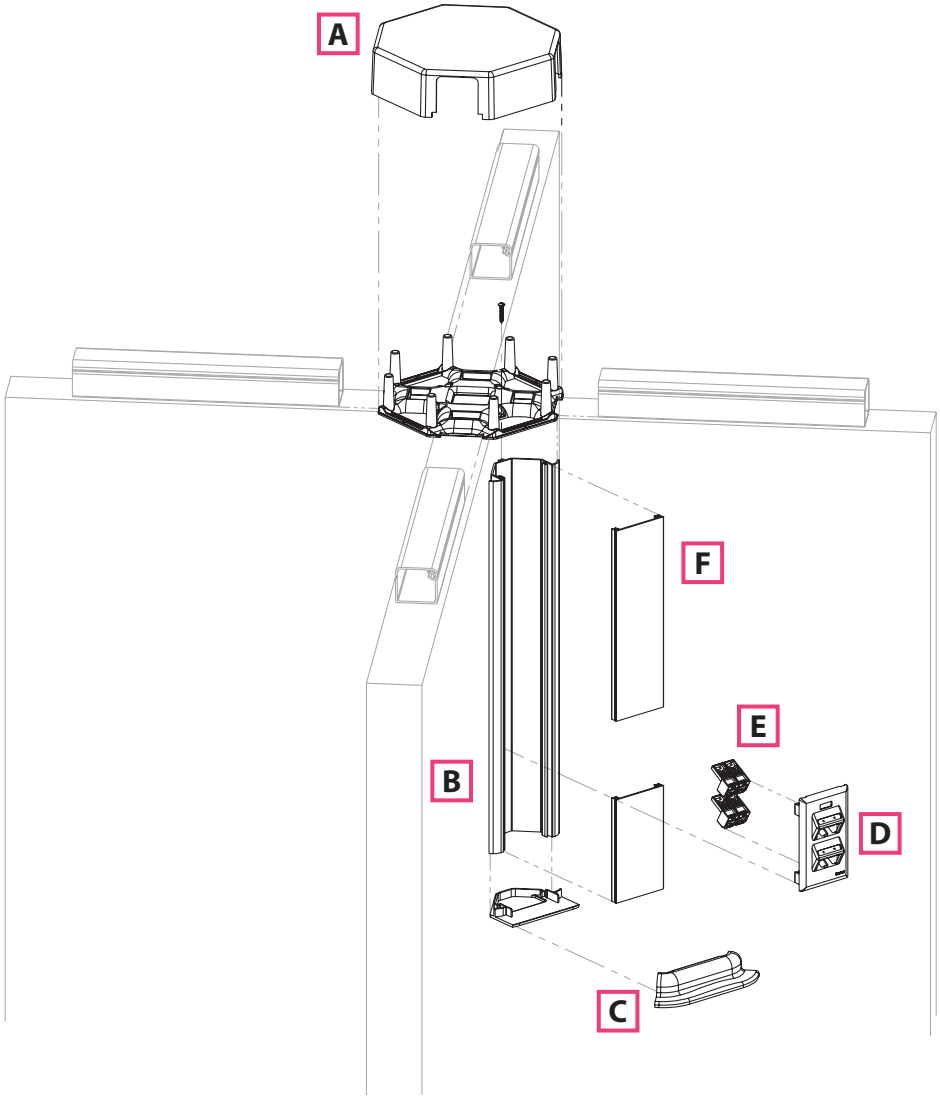


V **OF70FH4** – Horizontal Sloped Communication Snap-On Faceplate (page K.11)**

Office Furniture Configurations

Exploded View 1

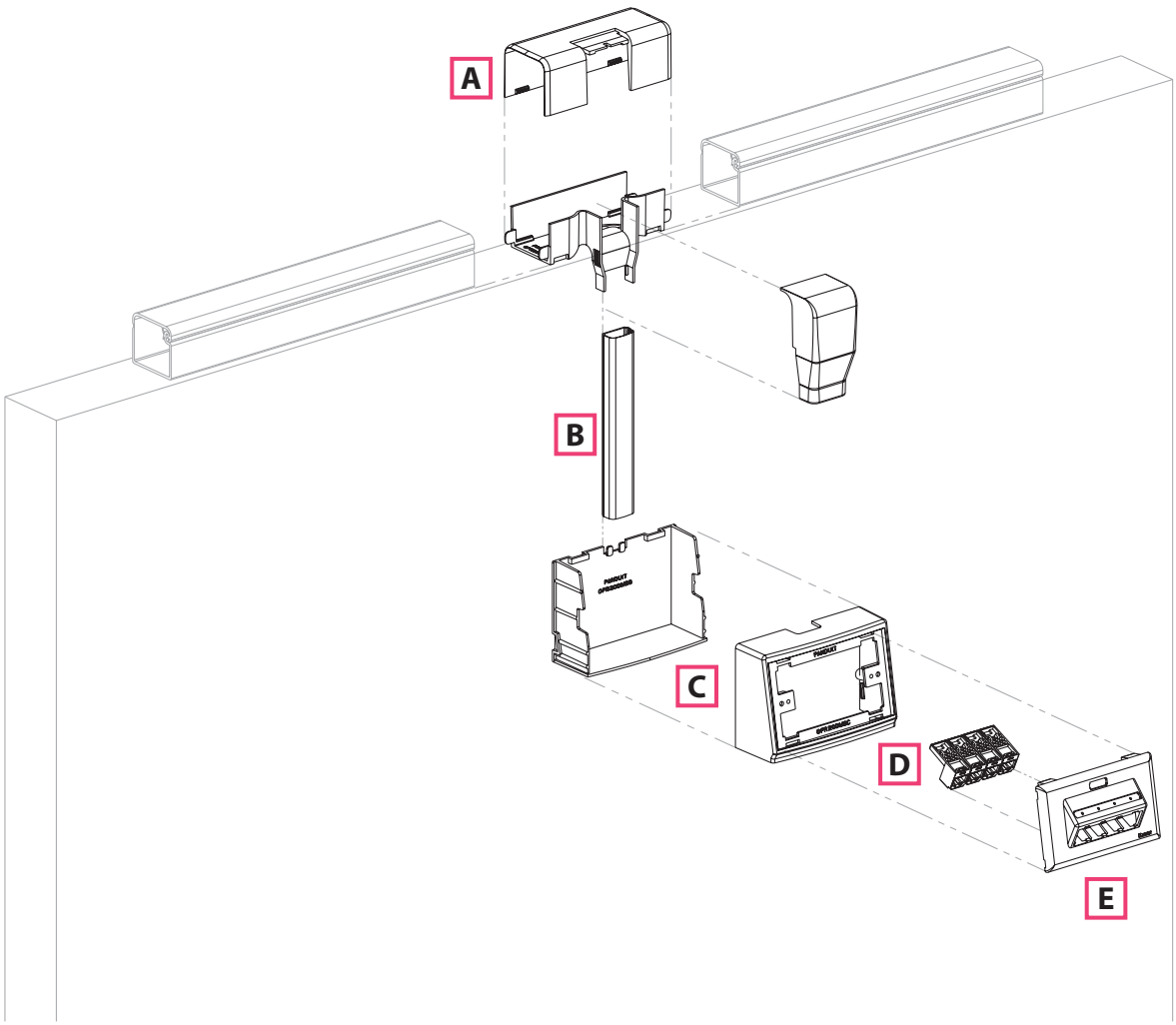
	Components Required	See page
A.	OFR20OFCR70**4 = Four Cubicle Drop Fitting.	K.9
B.	OFCR70**6 = Corner Raceway Base.	K.8
C.	OFCR70EC = End Cap Fitting.	K.10
D.	OF70FV4 = Vertical Sloped Communication Snap-On Faceplate.	K.11
E.	*Mini-Com*® Modules.	Section B2
F.	OFCRC70**6 = Corner Raceway Cover.	K.8



Office Furniture Configurations (continued)

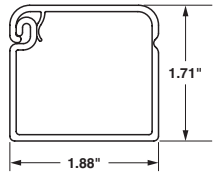
Exploded View 2

	Components Required	See page
A.	OFR20SO** = Spill-Over Fitting.	K.10
B.	OFVR5**6 = Vertical Raceway.	K.8
C.	OFR20DMB = Desk Mount Box.	K.10
D.	*Mini-Com*® Modules.	Section B2
E.	OF70FH4** = Horizontal Sloped Communication Snap-On Faceplate.	K.11

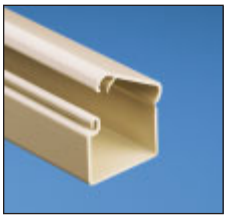


PAN-WAY® Office Furniture Raceway System

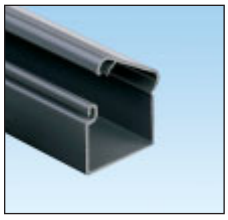
- UL listed in accordance with UL-5C requirements for Class 2 Communication Cable Management Systems
- Maintains bend radius control throughout the entire office furniture raceway system as required by TIA/EIA-568-B and 569-B
- Faceplates are compliant with the labeling requirements of the TIA/EIA-606-A standard
- Robust design and tamper resistant closure increases product stability and prevents damage to cabling during and after installation
- Product supplied with adhesive backing for fast and easy installation
- Creates a virtually invisible solution for routing data cables on panels from all common manufacturers with a top cap width between 1.88" and 2.30"
- Designed for use with *PAN-NET*® Connectivity, also accepts all common manufacturers' connectivity with use of a NEMA standard 70mm faceplate or module frame



OFFICE FURNITURE RACEWAY
Internal Area = 2.31 Sq. In.


Office Beige (OB)


Office Gray (OG)


Office Slate (OS)


Medium Tone (MT)


OFR20

Part Number	Part Description	Raceway Size	Color‡	Length (Ft.)	Std. Pkg. Qty.	Std. Ctn. Qty.
OFR20OB6	One-piece single channel low voltage raceway with adhesive tape backing for data cable routing along top of modular furniture partitions. Available in 6' lengths.	1.88" x 1.71" (48.0mm x 44.0mm)	Office Beige	6	6	48
OFR20OB8	One-piece single channel low voltage raceway with adhesive tape backing for data cable routing along top of modular furniture partitions. Available in 8' lengths.	1.88" x 1.71" (48.0mm x 44.0mm)	Office Beige	8	8	64

‡For other colors, replace OB (Office Beige) with OS (Office Slate), OG (Office Gray), or MT (Medium Tone).
Order number of feet required in multiples of standard carton quantity.

PAN-WAY® Office Furniture Raceway Fittings

- Office furniture raceway fittings have been designed to maintain the TIA/EIA required 1" minimum bend radius for high performance copper and fiber optic cabling systems


OFCR70


OFCRC70

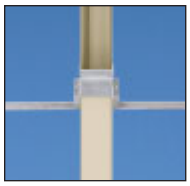

OFVR5

Part Number	Part Description	Labels Required	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
OFCR70OB6	Office furniture corner raceway base. Used to terminate low voltage data cabling in the corner at the intersection of modular office furniture panels. Accepts 70mm standard faceplates. Available in 6' lengths.	—	Office Beige	6	48
OFCRC70OB6	Office furniture corner raceway cover. Available in 6' lengths.	—	Office Beige	6	48
OFVR5OB6	Office furniture vertical raceway. One-piece single channel raceway used to connect OFR20**6 or OFR20**8 to desk mount box (OFR20DMB**) and must be used with OFR20SO** or OFR20DSO**. Available in 6' lengths.	—	Office Beige	6	120

‡For other colors, replace OB (Office Beige) with OS (Office Slate), OG (Office Gray), or MT (Medium Tone).
Computer printable labels found on pages O.7 and O.15.

Order number of pieces required, in multiples of Standard Package Quantity. Prime items appear in **BOLD**.

PAN-WAY® Office Raceway Fittings (continued)


OFR20CP


OFR20OFCR70**4


OFR20OFCR70**2


OFR20OFCR70**1


OFR20OFCR70**1P


OFR20OFCR70**2P


OFR20OFCR70**4P

Part Number	Part Description	Labels Required	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
OFR20CPOB8	Communication pole. Allows for data cable entry into office furniture raceway from suspended ceiling. 8' pole allows maximum 7' distance from top of furniture partition to ceiling. Must be used with OFR20MPT**. Note: Not intended for use at intersection of furniture panels.	—	Office Beige	1	—
OFR20OFCR70OB4	Four cubicle drop fitting. Allows the transition from office furniture raceway run horizontally along partition wall to office furniture corner raceway mounted vertically in four cubicles at the intersection of partitions. Fitting maintains 1" minimum bend radius of cabling. Supplied with adhesive tape.	—	Office Beige	1	10
OFR20OFCR70OB2	Two cubicle drop fitting. Allows the transition from office furniture raceway run horizontally along partition wall to office furniture corner raceway mounted vertically in two cubicles at the intersection of partitions. Fitting maintains 1" minimum bend radius of cabling. Supplied with adhesive tape.	—	Office Beige	1	10
OFR20OFCR70OB1	One cubicle drop fitting. Allows the transition from office furniture raceway run horizontally along partition wall to office furniture corner raceway mounted vertically in one cubicle at the intersection of partitions. Fitting maintains 1" minimum bend radius of cabling. Supplied with adhesive tape.	—	Office Beige	1	10
OFR20OFCR70OB1P	One cubicle drop bypass fitting. Allows the transition from office furniture raceway run horizontally along partition wall, around existing furniture pole, to office furniture corner raceway mounted vertically in one cubicle at the intersection of partitions. Fitting maintains 1" minimum bend radius of cabling. Supplied with adhesive tape.	—	Office Beige	1	10
OFR20OFCR70OB2P	Two cubicle drop bypass fitting. Allows the transition from office furniture raceway run horizontally along partition wall, around existing furniture pole, to office furniture corner raceway mounted vertically in two cubicles at the intersection of partitions. Fitting maintains 1" minimum bend radius of cabling. Supplied with adhesive tape.	—	Office Beige	1	10
OFR20OFCR70OB4P	Four cubicle drop bypass fitting. Allows the transition from office furniture raceway run horizontally along partition wall, around existing furniture pole, to office furniture corner raceway mounted vertically in four cubicles at the intersection of partitions. Fitting maintains 1" minimum bend radius of cabling. Supplied with adhesive tape.	—	Office Beige	1	10

‡For other colors, replace OB (Office Beige) with OS (Office Slate), OG (Office Gray), or MT (Medium Tone).
Computer printable labels found on pages O.7 and O.15.

Chart continues on page K.10

PAN-WAY® Office Raceway Fittings (continued)

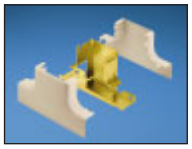
LISTED


OFRCR70EC


OFR20SO


OFR20DSO


OFR20DMB


OFR20MPT


OFR20WE


OFR20RA


OFR20T


OFR20CR

Part Number	Part Description	Labels Required	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
OFCR70ECOB	Corner raceway end cap fitting. Opening allows cord passage through fitting such as monitor and keyboard cables. Supplied with adhesive tape.	—	Office Beige	1	10
OFR20SOOB	Spill-over fitting. Allows transition from office furniture raceway run horizontally along partition wall to office furniture vertical raceway in one location. Adjustable fitting maintains 1" minimum bend radius of cabling and works with various panel widths between 1.88"–2.30" (47.7mm – 58mm). Supplied with adhesive tape.	—	Office Beige	1	10
OFR20DSOOB	Double spill-over fitting. Fitting is used to spill over both sides of the furniture partitions at the same location. Incorporates a built-in, yet removable end cap that eliminates the need for additional raceway and fittings to terminate the pathway.	—	Office Beige	1	10
OFR20DMBOB	Desk mount box. Box accepts office furniture snap-on faceplates as well as 70mm NEMA standard screw-on faceplates. Designed for use with OFVR5**6 raceway and OFR20SO**, OFR20DSO** spill-over fittings. Supplied with adhesive tape.	—	Office Beige	1	10
OFR20MPTOB	Mid-panel tee fitting. Used to connect communication pole to office furniture raceway run horizontally along partition wall. Supplied with adhesive tape. Note: not intended for use at intersection of furniture panels.	—	Office Beige	1	10
OFR20WEOB	Wall entrance fitting. Allows entry from wall to office furniture raceway run horizontally along partition walls. Fitting includes bend radius protection and trim plate to cover wall opening. Requires minimum wall opening of 4.5"W x 3.0"H (114.3mm x 76.2mm). Supplied with adhesive tape.	—	Office Beige	1	10
OFR20RAOB	Right angle fitting. Used to join sections of office furniture raceway at 90° flat junction. Supplied with adhesive tape.	—	Office Beige	1	10
OFR20TOB	Tee fitting. Used to create an undivided tee junction between sections of office furniture raceway. Supplied with adhesive tape.	—	Office Beige	1	10
OFR20CROB	Cross fitting. Used to join sections of office furniture raceway at four corners. Supplied with adhesive tape.	—	Office Beige	1	10

‡For other colors, replace OB (Office Beige) with OS (Office Slate), OG (Office Gray), or MT (Medium Tone).
Computer printable labels found on pages O.7 and O.15.

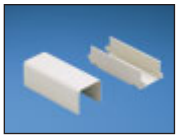
Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

PAN-WAY® Office Raceway Fittings (continued)


OFR20IC


OFR20OC


OFR20CC


OFR20LC


OFR20EC


OF70FH2


OF70FV2


OF70FH4


OF70FV4


OF70PG


OF70P

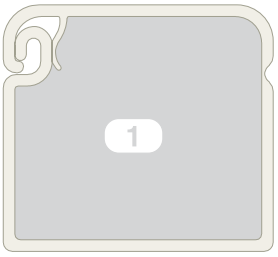

T70SDB-X

Part Number	Part Description	Labels Required	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
OFR20ICOB	Inside corner fitting. Used to join sections of office furniture raceway at inside corner. Supplied with adhesive tape.	—	Office Beige	1	10
OFR20OCOB	Outside corner fitting. Used to join sections of office furniture raceway at outside corner. Supplied with adhesive tape.	—	Office Beige	1	10
OFR20CCOB-X	Coupler fitting. For use with office furniture raceway.	—	Office Beige	10	100
OFR20LCOB	Long coupler fitting (with base). Used to bridge office furniture raceway between panel sections. Can also be used to fill void left by spill-over fitting, when furniture partitions are reconfigured. Supplied with adhesive tape.	—	Office Beige	1	10
OFR20ECOB	End cap fitting. Used to terminate office furniture raceway. Supplied with adhesive tape.	—	Office Beige	1	10
OF70FH2OB	Snap-on single gang horizontal sloped communication faceplate. Accepts up to two *PANDUIT*® *MINI-COM*® Modules (not included). No additional mounting hardware required. TIA/EIA-606-A compliant.	One 1-Port One 2-Port	Office Beige	1	10
OF70FV2OB	Snap-on single gang vertical sloped communication faceplate. Accepts up to two *PANDUIT*® *MINI-COM*® Modules (not included). No additional mounting hardware required. TIA/EIA-606-A compliant.	One 1-Port One 2-Port	Office Beige	1	10
OF70FH4OB	Snap-on single gang horizontal sloped communication faceplate. Accepts up to four *PANDUIT*® *MINI-COM*® Modules (not included). No additional mounting hardware required. TIA/EIA-606-A compliant.	One 1-Port One 4-Port	Office Beige	1	10
OF70FV4OB	Snap-on single gang vertical sloped communication faceplate. Accepts up to four *PANDUIT*® *MINI-COM*® Modules (not included). No additional mounting hardware required. TIA/EIA-606-A compliant.	One 1-Port One 4-Port	Office Beige	1	10
OF70PGOB	Snap-on single gang rectangular communication faceplate. In communication applications, covers one standard rectangular communication module frame. No additional mounting hardware required.	One 1-Port One 4-Port	Office Beige	1	—
OF70POB	Snap-on single gang 106 duplex communication faceplate. In communication applications, covers one standard 106 duplex communication module frame. No additional mounting hardware required.	One 1-Port One 4-Port	Office Beige	1	—
T70SDB-X	Standard faceplate bracket. Used to mount NEMA standard 70mm single gang screw-on faceplates. Can be used with T-70, Twin-70, TG-70 raceway and *PAN-POLE*™ Communication Pole.	One 1-Port One 4-Port	Gray	10	—

‡For other colors, replace OB (Office Beige) with OS (Office Slate), OG (Office Gray), or MT (Medium Tone).
Computer printable labels found on pages O.7 and O.15.

Cable Fill Capacities for Office Furniture

This information is to be used as a guide in selecting the proper size raceway. The maximum amounts may vary according to the cable installation methods, straightness of cables, etc.



A = 2.31 in.²

Cable fill #1: Open channel without devices

SPEC = 40% cable fill – The recommended design in cable capacity, leaves room for future moves, adds, and changes.

MAX for Data = 60% cable fill – The maximum cable quantity based on cable interweaving and packing factors.

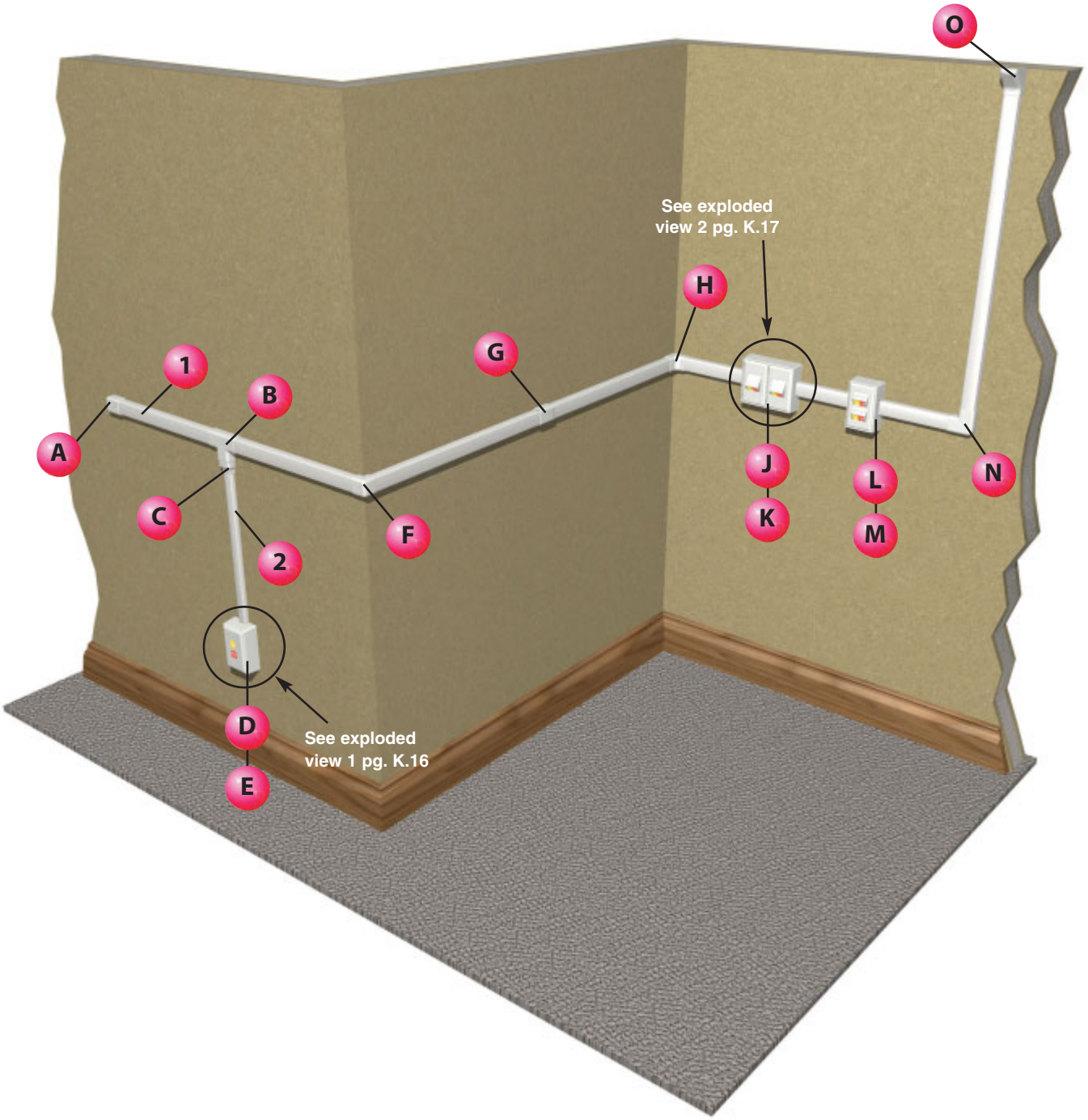
Raceway Type and Configuration	Fill Area (in²)	Electrical Cables			Data Grade Cables				Audio/Video		Fiber Optic Cable	
		14 AWG	12 AWG	10 AWG	24 AWG/UTP CM				RG6		2 Strand	
		THHN/T90			Cat. 6		Cat. 6A					
		0.111	0.130	0.164	DIA. = 0.250		DIA. = 0.298*		DIA. = 0.275		DIA. = 0.175	
		FILL			FILL		FILL		FILL		FILL	
		MAX	MAX	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX
		(UL Temp Rise Test)			40%	60%	40%	60%	40%	60%	40%	60%
OFR20	2.3	—	—	—	18	28	13	19	15	23	38	57

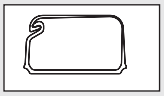
AWG dimensions represent typical outer cable diameter in inches.
*= .298 diameter cable can be used for riser applications.

NOTES

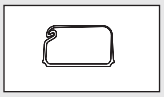
A. System Overview
B. Copper Systems
C. Fiber Optic Systems
D. Power over Ethernet
E. Zone Cabling
F. Wireless
G. Outlets
H. Media Distribution
I. Physical Infrastructure Management
J. Overhead & Underfloor Routing
K. Surface Raceway
L. Cabinets, Racks & Cable Management
M. Grounding & Bonding
N. Industrial
O. Labeling & Identification
P. Cable Management Accessories
Q. Index

LD Profile Raceway Roadmap

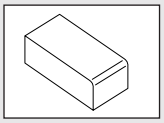




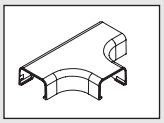
1 **LD10 Raceway**
(page K.18)



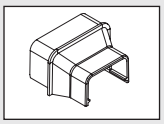
2 **LD5 Raceway**
(page K.18)



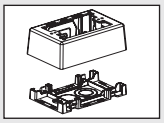
A **ECF10** – End Cap Fitting**
(page K.19)



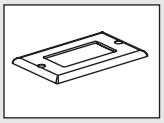
B **TF10** – Tee Fitting**
(page K.19)



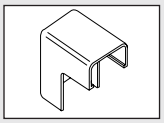
C **RF10X5** – Reducer Fitting**
(page K.19)



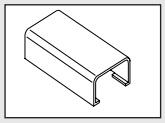
D **JBX3510** – Single Gang Two-Piece Snap-Together Box**
(page K.25)



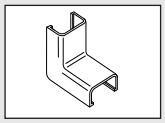
E **CPG** – Single Gang Rectangular Screw-On Faceplate**
(page K.23)



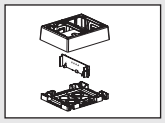
F **OCF10** – Outside Corner Fitting**
(page K.19)



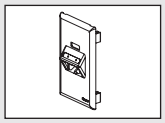
G **CF10** – Coupler Fitting**
(page K.19)



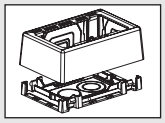
H **ICF10** – Inside Corner Fitting**
(page K.19)



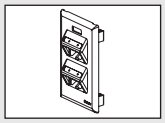
J **JBP2FS** – *FAST-SNAP*™ Double Gang Power Rated Surface Mount Outlet Box**
(page K.25)



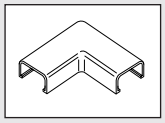
K **UIT70FV2** – *ULTIMATE ID*® Two-Position Sloped Vertical Snap-On Faceplates**
(page K.22)



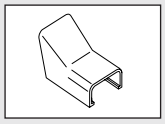
L **JB1FS** – *FAST-SNAP*™ Single Gang Surface Mount Outlet Box**
(page K.25)



M **UIT70FV4** – *ULTIMATE ID*® Four-Position Sloped Vertical Snap-On Faceplates**
(page K.22)



N **RAF10** – Right Angle Fitting**
(page K.19)

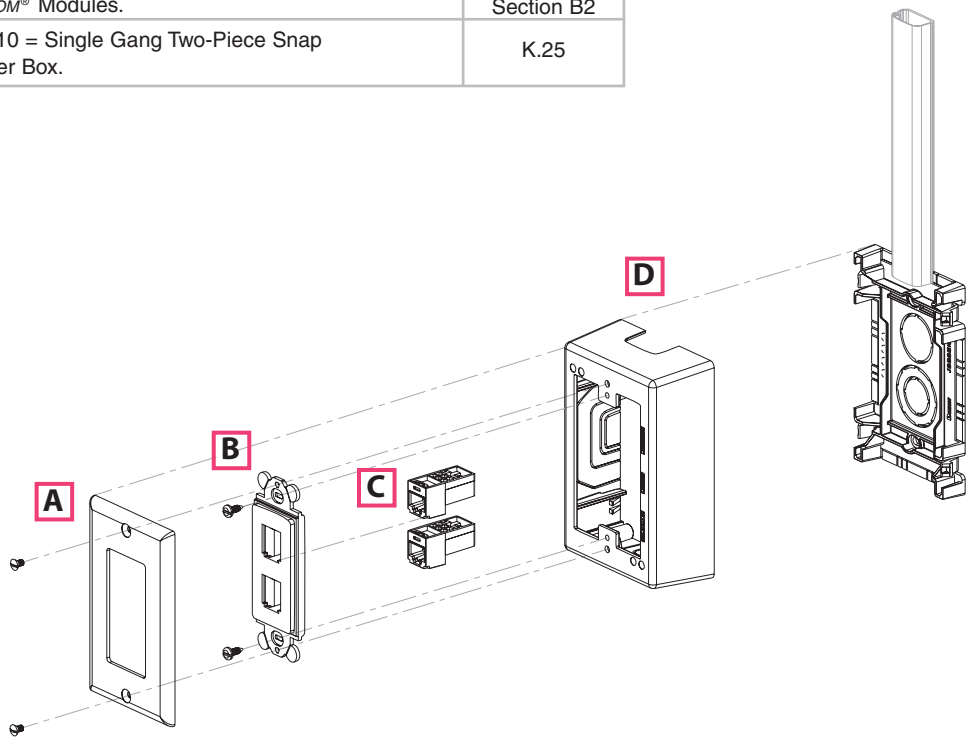


O **DCF10** – Drop Ceiling/Entrance End Fitting**
(page K.19)

LD Configurations

Exploded View 1

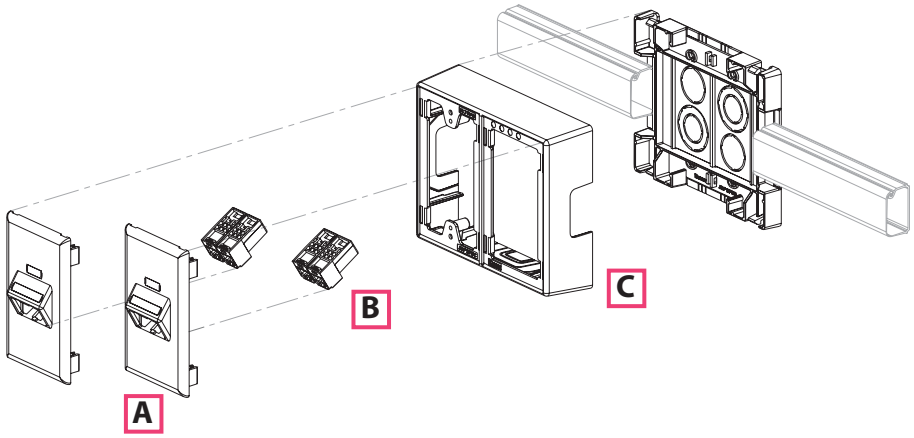
	Components Required	See page
A.	CPG = Single Gang Rectangular Screw-On Faceplate (screws included).	K.23
B.	CFG2 = *Mini-Com*® Module Frame – 2-Port.	B3.17
C.	*Mini-Com*® Modules.	Section B2
D.	JBX3510 = Single Gang Two-Piece Snap Together Box.	K.25



LD Configurations (continued)

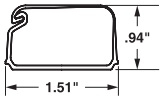
Exploded View 2

	Components Required	See page
A.	UIT70FV2 = *ULTIMATE ID*® Sloped Vertical Snap-On Faceplate – 2-Port.	K.22
B.	*MINI-COM*® Modules.	Section B2
C.	JBP2FS = *FAST-SNAP*™ Double Gang Power Rated Surface Mount Outlet Box.	K.25

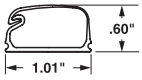


PAN-WAY® LD Surface Raceway System

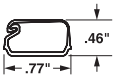
- For routing data and low voltage cabling
- One-piece hinged design allows cables to be laid in
- Factory applied adhesive backing speeds installation
- FT4 rated
- Terminates using surface mount outlet box solutions or PANDUIT® MINI-COM® Surface Mount Boxes



LD10
Internal Area = 1.00 Sq. In.



LD5
Internal Area = .38 Sq. In.



LD3
Internal Area = .21 Sq. In.


LD3


LD5


LD10

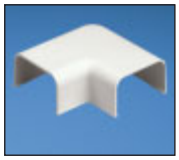
Part Number	Part Description	Raceway Size	Color‡	Length (Ft.)	Std. Ctn. Qty.
LD3 – Surface Raceway					
LD3IW6-A	One-piece latching surface raceway. Supplied with pre-applied adhesive backed tape. Available in 6', 8', and 10' lengths.	.77" x .46" (20.0mm x 12.0mm)	Off White	6	120
LD3IW8-A				8	160
LD3IW10-A				10	200
LD5 – Surface Raceway					
LD5IW6-A	One-piece latching surface raceway. Supplied with pre-applied adhesive backed tape. Available in 6', 8', and 10' lengths.	1.01" x .58" (26.0mm x 15.0mm)	Off White	6	120
LD5IW8-A				8	160
LD5IW10-A				10	200
LD10 – Surface Raceway					
LD10IW6-A	One-piece latching surface raceway. Supplied with pre-applied adhesive backed tape. Available in 6', 8', and 10' lengths.	1.51" x .94" (38.4mm x 24.0mm)	Off White	6	120
LD10IW8-A				8	160
LD10IW10-A				10	200

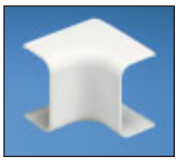
‡For other colors replace IW (Off White) with EI (Electric Ivory), IG (International Gray), or WH (White).
Order number of feet required in multiples of standard length increments.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

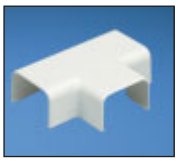
Standard Fittings for Low Voltage Applications


CF


RAF

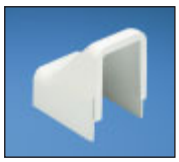

ICF


OCF

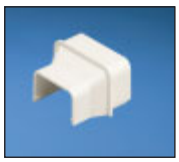

TF


ECF


CRFC


DCF


FBA


RF

Part Number	Part Description	Color‡	Std. Pkg. Qty.
CF3IW-E	Coupler fitting for use with LD3 raceway.	Off White	20
CF5IW-E	Coupler fitting for use with LD5 raceway.	Off White	20
CF10IW-X	Coupler fitting for use with LD10 raceway.	Off White	10
RAF3IW-E	Right angle fitting for use with LD3 raceway.	Off White	20
RAF5IW-E	Right angle fitting for use with LD5 raceway.	Off White	20
RAF10IW-X	Right angle fitting for use with LD10 raceway.	Off White	10
ICF3IW-E	Inside corner fitting for use with LD3 raceway.	Off White	20
ICF5IW-E	Inside corner fitting for use with LD5 raceway.	Off White	20
ICF10IW-X	Inside corner fitting for use with LD10 raceway.	Off White	10
OCF3IW-E	Outside corner fitting for use with LD3 raceway.	Off White	20
OCF5IW-E	Outside corner fitting for use with LD5 raceway.	Off White	20
OCF10IW-X	Outside corner fitting for use with LD10 raceway.	Off White	10
TF3IW-E	Tee fitting for use with LD3 raceway.	Off White	20
TF5IW-E	Tee fitting for use with LD5 raceway.	Off White	20
TF10IW-X	Tee fitting for use with LD10 raceway.	Off White	10
ECF3IW-E	End cap fitting for use with LD3 raceway.	Off White	20
ECF5IW-E	End cap fitting for use with LD5 raceway.	Off White	20
ECF10IW-X	End cap fitting for use with LD10 raceway.	Off White	10
CRFC5IW-X	Four way cross fitting for use with LD5, LDPH5, and LDS5 raceway.	Off White	10
DCF3IW-X	Drop ceiling/entrance end fitting for use with LD3 raceway.	Off White	10
DCF5IW-X	Drop ceiling/entrance end fitting for use with LD5 raceway.	Off White	10
DCF10IW-X	Drop ceiling/entrance end fitting for use with LD10 raceway.	Off White	10
FBA5IW-X	Fire box adapter for use with LD5/LDPH5 profile raceway. NOTE: For low voltage applications only.	Off White	10
FBA10IW-X	Fire box adapter for use with LD10/LDPH10 profile raceway. NOTE: For low voltage applications only.	Off White	10
RF5X3IW-E	Reducer fitting for LD raceway from size 5 to size 3. For use with LD5 and LD3 raceway. For in-line terminations, use with CF5**.	Off White	20
RF10X3IW-X	Reducer fitting for LD raceway from size 10 to size 3. For use with LD3 and LD10 raceway. For in-line terminations, use with CF10**.	Off White	10
RF10X5IW-X	Reducer fitting for LD raceway from size 10 to size 5. For use with LD5 and LD10 raceway. For in-line terminations, use with CF10**.	Off White	10

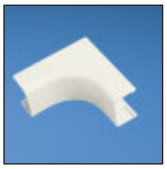
‡For other colors replace IW (Off White) with EI (Electric Ivory), IG (International Gray), or WH (White).

One Inch Bend Radius Fittings for TIA/EIA Compliance

- One inch bend radius fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fiber optic cabling systems


CFX


RAFC


ICFC


OCFX


TFC


CRFC5


ECFX


DCEFX


RAEFX


RFX

Part Number	Part Description	Color‡	Std. Pkg. Qty.
CFX3IW-X	Coupler fitting for use with LD3, LDPH3, and LDS3 raceway.	Off White	10
CFX5IW-X	Coupler fitting for use with LD5, LDPH5, and LDS5 raceway.	Off White	10
CFX10IW-X	Coupler fitting for use with LD10, LDPH10, and LD2P10 raceway.	Off White	10
RAFC3IW-X	Right angle fitting for use with LD3, LDPH3, and LDS3 raceway.	Off White	10
RAFC5IW-X	Right angle fitting for use with LD5, LDPH5, and LDS5 raceway.	Off White	10
RAFC10IW-X	Right angle fitting for use with LD10 and LDPH10 raceway.	Off White	10
ICFC3IW-X	Inside corner fitting for use with LD3, LDPH3, and LDS3 raceway.	Off White	10
ICFC5IW-X	Inside corner fitting for use with LD5, LDPH5, and LDS5 raceway.	Off White	10
ICFC10IW-X	Inside corner fitting for use with LD10 and LDPH10 raceway.	Off White	10
OCFX3IW-X	Outside corner fitting for use with LDPH3 and LDS3 raceway.	Off White	10
OCFX5IW-X	Outside corner fitting for use with LDPH5 and LDS5 raceway.	Off White	10
OCFX10IW-X	Outside corner fitting for use with LDPH10 and LD2P10 raceway.	Off White	10
TFC3IW-X	Tee fitting for use with LD3, LDPH3, and LDS3 raceway.	Off White	10
TFC5IW-X	Tee fitting for use with LD5, LDPH5, and LDS5 raceway.	Off White	10
TFC10IW-X	Tee fitting for use with LD10 and LDPH10 raceway.	Off White	10
CRFC5IW-X	Four way cross fitting for use with LD5, LDPH5, and LDS5 raceway.	Off White	10
ECFX3IW-X	End cap fitting for use with LDPH3 and LDS3 raceway.	Off White	10
ECFX5IW-X	End cap fitting for use with LDPH5 and LDS5 raceway.	Off White	10
ECFX10IW-X	End cap fitting for use with LDPH10 and LD2P10 raceway.	Off White	10
DCEFXIW-X	Drop ceiling/entrance end fitting for use with LD3, LDPH3, LDS3, LD5, LDPH5, LDS5, LD10 and LDPH10 raceway. Use CA3 or CA5 adapters for LD3 or LD5 profile raceway.	Off White	10
RAEFXIW-X	Right angle/entrance end fitting for use with LD3, LDPH3, LDS3, LD5, LDPH5, LDS5, LD10 and LDPH10 raceway. CA3 or CA5 adapters for LD3 or LD5 profile raceway.	Off White	10
RFX53IW-X	Reducer fitting for use with LD3, LDPH3, LDS3, LD5, LDPH5 and LDS5 raceway. For in-line terminations, use with CFX5**.	Off White	10
RFX103IW-X	Reducer fitting for use with LD3, LDPH3, LD10 and LDPH10 raceway. For in-line terminations, use with CFX10**.	Off White	10
RFX105IW-X	Reducer fitting for use with LD5, LDPH5, LDS5, LD10 and LDPH10 raceway. For in-line terminations, use with CFX10**.	Off White	10

‡For other colors replace IW (Off White) with EI (Electric Ivory), IG (International Gray), or WH (White).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Cable Fill Capacities for LD Raceway

This information is to be used as a guide in selecting the proper size raceway. The maximum amounts may vary according to the cable installation methods, straightness of cables, etc.



LD3	LD5	LD10
.21 in.²	**.38 in.²**	**1.00 in.²**

SPEC = 40% cable fill – The recommended design in cable capacity, leaves room for future moves, adds, and changes.

MAX for Data = 60% cable fill – The maximum cable quantity based on cable interweaving and packing factors.

Raceway Type and Configuration	Fill Area (in²)	Electrical Cables			Data Grade Cables				Audio/Video		Fiber Optic Cable	
		14 AWG	12 AWG	10 AWG	24 AWG/UTP CM				RG6		2 Strand	
		THHN/T90			Cat. 6		Cat. 6A					
		0.111	0.130	0.164	DIA. = 0.250		DIA. = 0.298*		DIA. = 0.298*		DIA. = 0.175	
		FILL			FILL		FILL		FILL		FILL	
		MAX	MAX	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX
		(UL Temp Rise Test)			(40%)	(60%)	(40%)	(60%)	(40%)	(60%)	(40%)	(60%)
LD3	0.21	—	—	—	1	2	1	1	1	2	3	5
LD5	0.38	—	—	—	3	4	2	3	2	3	6	9
LD10	1.00	—	—	—	8	12	5	8	6	10	16	24

AWG dimensions represent typical outer cable diameter in inches.

* = .298 diameter cable can be used for riser applications.

PANDUIT® MINI-COM® ULTIMATE ID® Sloped Snap-On Faceplates

- For use with *PANDUIT* raceway: LD, T-45, T-70, Twin-70, TG-70, *PAN-POLE*™ Outlet Pole and *FAST-SNAP*™ Outlet Boxes
- Snap into raceway channel or outlet box and requires no additional mounting hardware or adapters – greatly reducing installation time
- Meet stringent UL5A standard for non-metallic raceways
- Accept *MINI-COM*® Modules for STP and UTP fiber optic and coax, which snap in and out for easy moves, adds, and changes
- Can be clearly identified with the *PANTHER*™ LS8E or the *COUGAR*™ LS9 Hand-Held Thermal Transfer Printers
- Computer printable label sheets for desktop printers and write-on labels available
- Supplied with clear station and port label covers, labels sold separately
- Replacement label covers available
- Optional icons available
- *ULTIMATE ID*® components are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements; reference pages O.1 – O.18


UIT70FH2


UIT70FH4


UIT70FV2


UIT70FV4

Part Number	Part Description	Labels Required*	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
UIT70FH2IW	Single gang, horizontal sloped communication snap-on faceplate accepts up to two *MINI-COM*® Modules.	One 1-Port One 2-Port	Off White	1	10
UIT70FH4IW	Single gang, horizontal sloped communication snap-on faceplate accepts up to four *MINI-COM*® Modules.	One 1-Port One 4-Port	Off White	1	10
UIT70FV2IW	Single gang, vertical sloped communication snap-on faceplate accepts up to two *MINI-COM*® Modules.	One 1-Port One 2-Port	Off White	1	10
UIT70FV4IW	Single gang, vertical sloped communication snap-on faceplate accepts up to four *MINI-COM*® Modules.	One 1-Port Two 2-Port	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), or IG (International Gray).
*Computer printable labels found on pages O.1-O.18.

Component Labels for *MINI-COM*® *ULTIMATE ID*® Sloped Snap-On Faceplates for Use with *PANDUIT*® *MINI-COM*® Modules



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
UIT70FH2IW	UILJ2	—	UILS8BW	UILS8BW
UIT70FH4IW	UILJ4			
UIT70FV2IW	UILJ2			
UIT70FV4IW	UILJ4			

For complete labeling solutions and product information, reference pages O.1 and O.18.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

PAN-WAY® Classic Series Snap-On Faceplates for Use With *PANDUIT*® *MINI-COM*® Modules

- Can be used with *PAN-WAY*® Cove, TG-70, T-70, Twin-70, T-45 Raceway Systems, *FAST-SNAP*™ Outlet Boxes and *PAN-POLE*™ Aluminum Outlet Pole


T70FH2


T70FH4


T70FV2


T70FV4


T70P


T70PG


T70PS


T70PGS


CP106


CP106**-2G


CPG


CPG**-2G

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
T70FH2IW	Snap-on horizontal sloped communication faceplate. Accepts two *PANDUIT*® *MINI-COM*® Modules (not included). No additional mounting hardware required.	Off White	1	10
T70FH4IW	Snap-on horizontal sloped communication faceplate. Accepts four *PANDUIT*® *MINI-COM*® Modules (not included). No additional mounting hardware required.	Off White	1	10
T70FV2IW	Snap-on vertical sloped communication faceplate. Accepts two *PANDUIT*® *MINI-COM*® Modules (not included). No additional mounting hardware required.	Off White	1	10
T70FV4IW	Snap-on vertical sloped communication faceplate. Accepts four *PANDUIT*® *MINI-COM*® Modules (not included). No additional mounting hardware required.	Off White	1	10
T70PIW	Snap-on single gang 106 duplex electrical/communication faceplate. Used to cover one NEMA standard 106 duplex electrical outlet. In communication applications, covers one standard 106 duplex communication module frame.	Off White	1	10
T70PGIW	Snap-on single gang rectangular electrical/communication faceplate. Used to cover one NEMA standard rectangular electrical outlet. In communication applications, covers one standard rectangular communication module frame.	Off White	1	10
T70PSIW	Snap-on single gang 106 duplex communication faceplate. Used to cover one NEMA standard 106 duplex communication module frame. Module frame screw mounts directly to underside of snap-on faceplate. No mounting device needed. Supplied with one mounting screw. NOTE: Not for use with electrical devices.	Off White	1	10
T70PGSIW	Snap-on single gang rectangular communication faceplate. Used to cover one NEMA standard rectangular communication module frame. Module frame screw mounts directly to underside of snap-on faceplate. No mounting device needed. Supplied with two mounting screws. NOTE: Not for use with electrical devices.	Off White	1	10
CP106IW	Screw-on single gang 106 duplex faceplate. Covers one NEMA standard 106 duplex electrical outlet or one standard 106 communication module frame.	Off White	1	10
CP106IW-2G	Screw-on double gang 106 duplex faceplate. Covers two NEMA standard 106 duplex electrical outlets or two standard 106 communication module frames.	Off White	1	10
CPGIW	Screw-on single gang rectangular faceplate. Covers one NEMA standard rectangular electrical outlet or one standard rectangular communication module frame.	Off White	1	10
CPGIW-2G	Screw-on double gang rectangular faceplate. Covers two NEMA standard rectangular electrical outlets or two standard rectangular communication module frames.	Off White	1	10

‡For other colors replace IW (Off White) with EI (Electric Ivory), IG (International Gray), or WH (White).

Component Labels for *PAN-WAY*® Classic Series Snap-On Faceplates for Use with *PANDUIT*® *MINI-COM*® Modules



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
T70FH2IW	**C125X030FJJ**	**C125X030YPT**	**C125X030FJC**	**T031X000FJC-BK**
T70FV2IW				
T70FV4IW				
T70FH4IW	**C252X030FJJ**	**C252X030YPT**	**C252X030FJC**	**T031X000FJC-BK**
CP106IW	**C061X030FJJ**	**C061X030YPT**	**C061X030FJC**	**T031X000FJC-BK**
CP106IW-2G	**2 - C061X030FJJ**	**2 - C061X030YPT**	**2 - C061X030FJC**	**T031X000FJC-BK**
CPGIW	**C125X030FJJ**	**C125X030YPT**	**C125X030FJC**	**T031X000FJC-BK**
T70PGSIW				
CPGIW-2G	**2 - C125X030FJJ**	**2 - C1252X030YPT**	**2 - C125X030FJC**	**T031X000FJC-BK**
T70PGIW	**C261X030FJJ**	**T031X000FJT**	**C261X030FJC**	**T031X000FJC-BK**
T70PIW				
T70PSIW				

For complete labeling solutions and product information, reference pages O.1 and O.18.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

PAN-WAY® Low Voltage Surface Mount Outlet Boxes

- JBX3510 assembles without the use of screws for faster installation
- JBX3510, JB1, and JB1D are supplied with adhesive backing to speed installation
- JB1 and JB1D are a one-piece design requiring no assembly

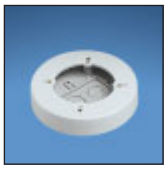

JBX3510


JB1


JB1D


JBP2


JBP2D


RJBX3510


JBA-X


JB1FS


JB1FSD


JBP2FS

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
JBX3510IW-A	Single gang two-piece snap together outlet box with adhesive backing. Box accepts *PAN-WAY*® Screw-On Faceplates or any NEMA standard single gang faceplate. For use with *PAN-WAY*® T45 or LD profile raceway. 5.00"L x 3.26"W x 1.62"H (127.1mm x 82.7mm x 41.1mm). Breakouts for 1/2", 3/4", or 1" diameter conduit.	Off White	1	10
JB1IW-A	Single gang one-piece outlet box with adhesive backing. Box accepts *PAN-WAY*® Screw-On Faceplates or any NEMA standard single gang faceplate. For use with *PAN-WAY*® LD profile raceway. 5.09"L x 3.34"W x 1.75"H (129.4mm x 85.0mm x 44.4mm). Breakouts for 1/2", 3/4", or 1" diameter conduit.	Off White	1	10
JB1DIW-A	Single gang one-piece deep outlet box with adhesive backing. Box accepts *PAN-WAY*® Screw-On Faceplates or any NEMA standard single gang faceplate. For use with *PAN-WAY*® LD profile raceway. 5.23"L x 3.48"W x 2.75"H (133.0mm x 88.5mm x 69.8mm). Breakouts for 1/2", 3/4", or 1" diameter conduit.	Off White	1	10
JBP2IW	Double gang two-piece screw together outlet box. Box accepts *PAN-WAY*® Screw-On Faceplates or any NEMA standard double gang faceplates. For use with *PAN-WAY*® LD profile raceway. 5.05" L x 5.05" W x 1.62"H (128.2mm x 128.2mm x 41.1mm). Breakouts for 1/2" or 3/4" diameter conduit.	Off White	1	10
JBP2DIW	Double gang two-piece screw together deep outlet box. Box accepts *PAN-WAY*® Screw-On Faceplates or any NEMA standard double gang faceplate. For use with *PAN-WAY*® T-45 or LD profile raceway. 5.19"L x 5.19"W x 2.75"H (131.9mm x 131.9mm x 69.8mm). Breakouts for 1/2", 3/4", or 1" diameter conduit.	Off White	1	10
RJBX3510IW	Single gang two-piece screw together round outlet box. Box accepts UL/CSA devices not to exceed 10lbs. (5lbs. per CSA). For use with *PAN-WAY*® LD profile raceway. Dia. = 5.48"D x 1.14"H (139.2mm x 29.0mm). Breakouts for 3/4" or 1" diameter conduit.	Off White	1	5
JBA-X	In-wall box adapter. Adapts single gang surface mount outlet boxes to in-wall conduit boxes.	—	10	100
JB1FSIW-A	Single gang two-piece snap together outlet box with adhesive backing. Box accepts *PAN-WAY*® Snap-On Faceplates. For use with *PAN-WAY*® T-45 or LD profile raceway. 5.00"L x 3.26"W x 1.62"H (127.1mm x 82.7mm x 41.1mm). Breakouts for 1/2", 3/4", or 1" diameter conduit.	Off White	1	10
JB1FSDIW-A	*FAST-SNAP*™ Single Gang Two-Piece Snap Together Deep Outlet Box with adhesive backing. Box accepts *PAN-WAY*® Snap-On Faceplates. For use with *PAN-WAY*® T-45 or LD profile raceway. 5.16"L x 3.41"W x 2.75"H (131.1mm x 86.7mm x 69.8mm). Breakouts for 1/2", 3/4", or 1" diameter conduit.	Off White	1	10
JBP2FSIW	Double gang power rated two-piece snap together outlet box. Box accepts *PAN-WAY*® Snap-On Faceplates. For use with *PAN-WAY*® T-45 or LD profile raceway. 5.00"L x 6.14"W x 1.62"H (127.1mm x 155.9mm x 41.1mm). Breakouts for 1/2", 3/4", or 1" diameter conduit.	Off White	1	10

‡For other colors replace IW (Off White) with EI (Electric Ivory), IG (International Gray), or WH (White).

A. System Overview
B. Copper Systems
C. Fiber Optic Systems
D. Power over Ethernet
E. Zone Cabling
F. Wireless
G. Outlets
H. Media Distribution
I. Physical Infrastructure Management
J. Overhead & Underfloor Routing
K. Surface Raceway
L. Cabinets, Racks & Cable Management
M. Grounding & Bonding
N. Industrial
O. Labeling & Identification
P. Cable Management Accessories
Q. Index

NOTES

CABINETS, RACKS, AND CABLE MANAGEMENT SOLUTIONS

PANDUIT provides leading edge cabinets, racks, and cable management solutions for telecommunications equipment rooms, data centers, and premise wiring applications. As the demand for system performance increases, it becomes essential to protect and manage cables to maintain system reliability and scalability. *PANDUIT* continues to provide innovative products that create end-to-end solutions for managing, protecting, and showcasing your network for the lowest cost of ownership.









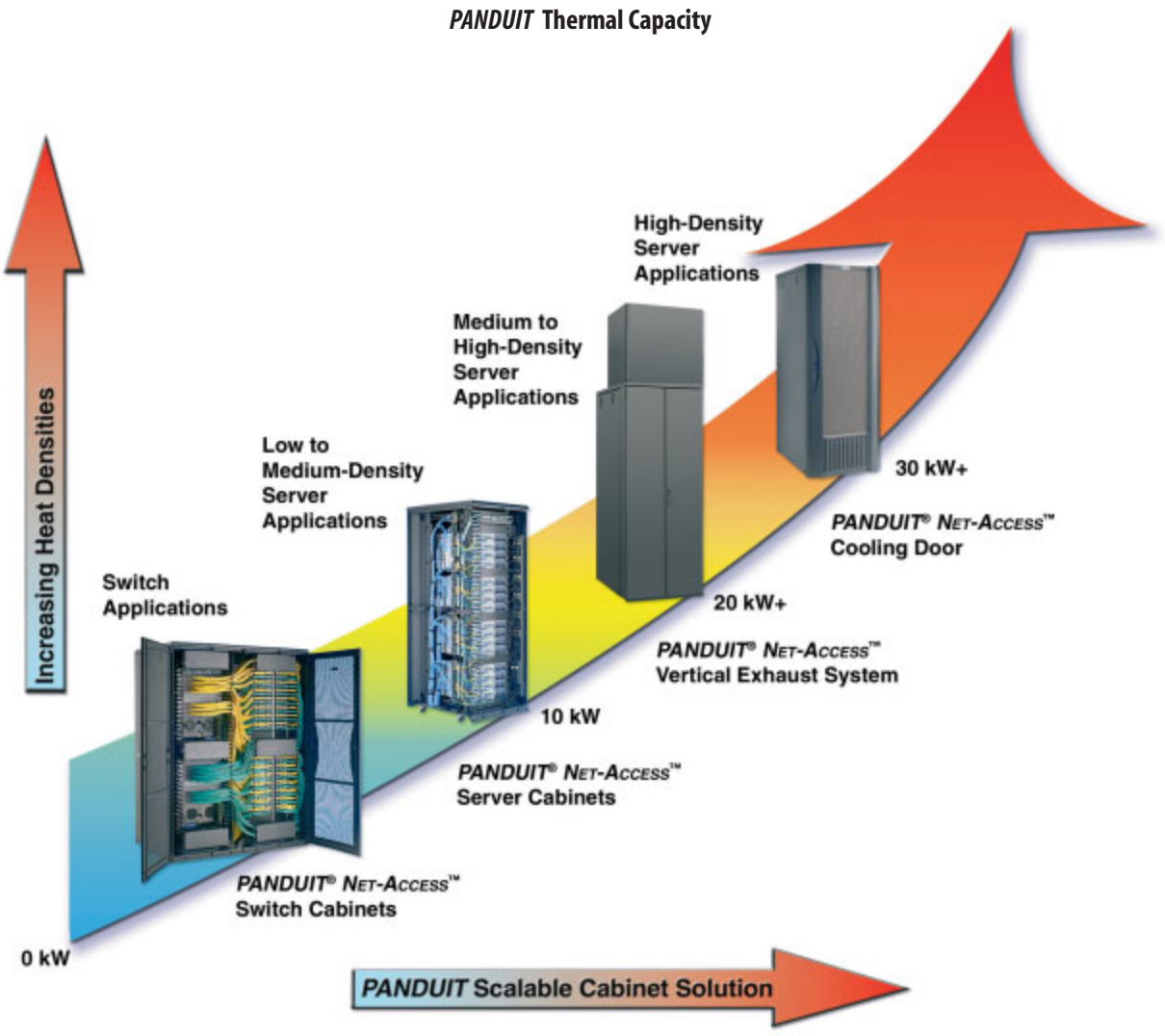


- *PANDUIT*® *NET-ACCESS*™ Switch and Server Cabinets combine the aesthetics and security of a cabinet with the accessibility of an open rack
- New *NET-ACCESS*™ Vertical Exhaust System directs the flow of hot exhaust air, reducing costs and noise levels
- New *NET-ACCESS*™ Cooling Door eliminates up to 20 kW of heat in server cabinets for high density applications
- *PANDUIT* rack systems allow complete flexibility for a wide range of cable and equipment combinations and are designed to maximize cable access
- Vertical cable managers allow increased cable density for maximum space utilization and organization
- New *PANDUIT*® *NETMANAGER*™ High Capacity Horizontal Cable Managers provide an efficient way to manage high performance copper, fiber, or coaxial cables
- *COOL BOOT*™ Raised Floor Air Sealing Grommet redirects a greater amount of conditioned air toward cooling network equipment, thus minimizing the risk associated with overheating
- *PANDUIT* cable management products and accessories maintain bend radius control and cable performance while bundling and securing cable to prevent snags and stress from overbending

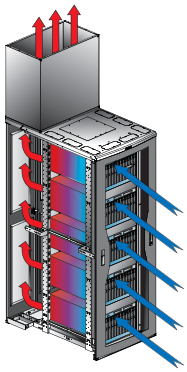
PANDUIT® NET-ACCESS™ CABINET SOLUTION

PANDUIT physical infrastructure solutions ensure seamless design, rapid implementation, and reliable operation in the data center.

Working with industry leaders such as Cisco and IBM, *PANDUIT* has developed its innovative NET-ACCESS™ cabinet system to meet data center challenges today and tomorrow. This system addresses switch and server applications in the data center to enable effective thermal management in a reliable and secure environment.







NET-ACCESS™ SYSTEM INNOVATION

Switch and Server Cabinets

NET-ACCESS™ Cabinets combine superior cable management, inset structural frame, and door perforation patterns to ensure proper heat dissipation for improved network performance and availability. The *NET-ACCESS*™ Switch Cabinet is designed to optimize the thermal performance of network switches requiring side-to-side airflow. The *NET-ACCESS*™ Server Cabinet provides scalable thermal management for low to high heat density applications.

Vertical Exhaust System (For heat density 8 – 20 kW+)

The *NET-ACCESS*™ Vertical Exhaust System channels hot air from within the cabinet directly into the data center plenum. This passive cabinet vent effectively and economically manages heat loads of 20 kW+/cabinet, eliminating data center hot spots generated by increased server densities.



Rear Door Heat Exchanger (For heat density 10 – 30 kW+)

The *NET-ACCESS*™ Cooling Door provides reliable and cost effective heat removal of up to 20 kW/cabinet. Developed with IBM, this cooling door enables data centers to scale to high server densities, reducing real estate costs and eliminating the need for additional CRAC units.



Versatile Cable Routing

The *NET-ACCESS*™ Overhead Cable Routing System is a high capacity data cable pathway used directly over the *NET-ACCESS*™ Cabinets. It eliminates the need for multiple infrastructure elements reducing installation time. The modular molded design provides integral bend radius control to cable inlets on the top of the cabinet.



COOL BOOT™ Raised Floor Air Sealing Grommet

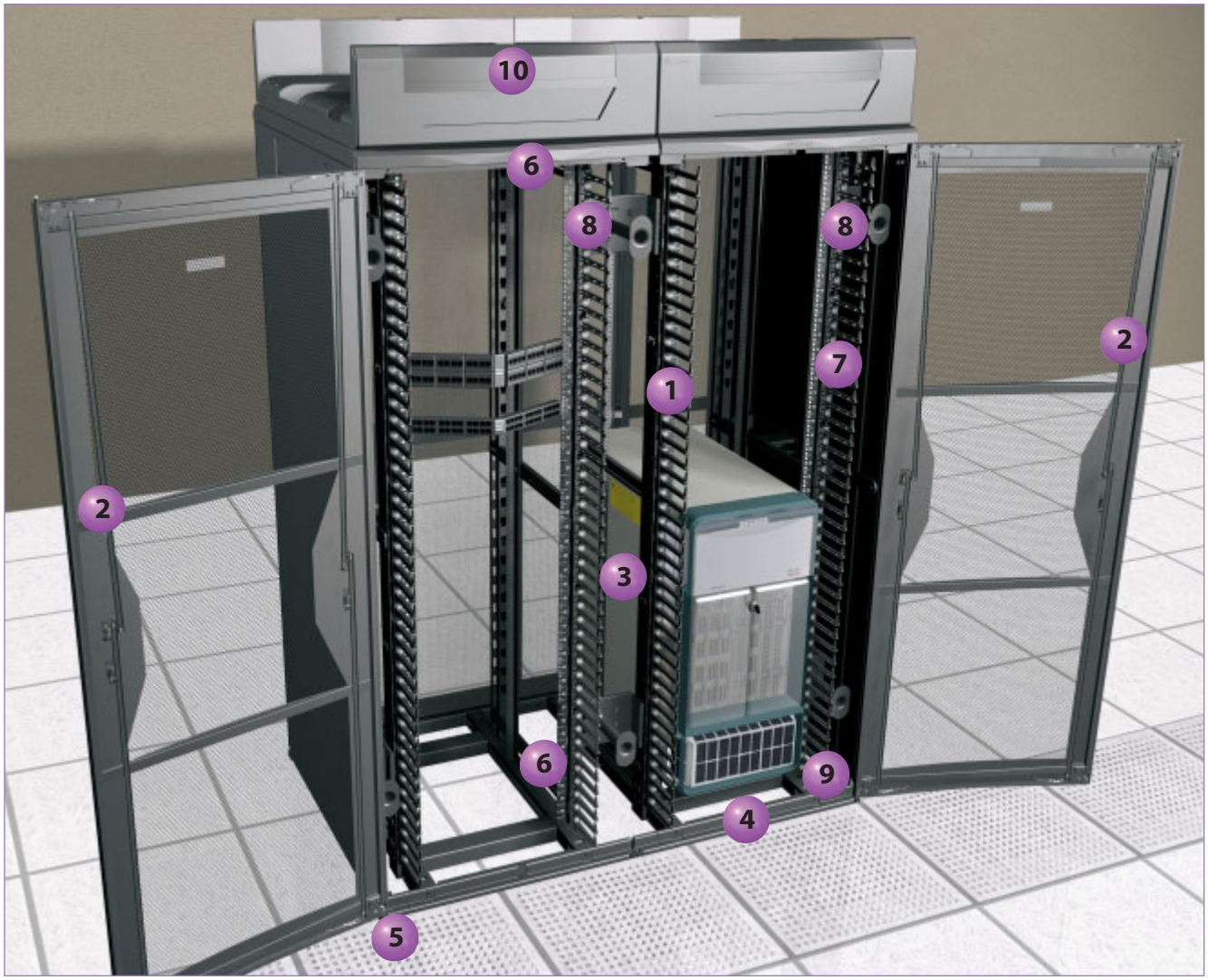
The *COOL BOOT*™ Raised Floor Air Sealing Grommet allows a greater amount of conditioned air to be redirected toward cooling network equipment within a hot aisle/cold aisle environment, thus minimizing the risk associated with overheating. The grommet safely routes and protects cables into racks and cabinets through a raised floor within a data center.

Integrated Grounding System

The *NET-ACCESS*™ Cabinet is electrically bonded and is compatible with the *PANDUIT*® *STRUCTUREDGROUND*™ Grounding System to maximize uptime, maintain system performance, and protect network equipment and personnel. Built-in grounding features include all welded construction, special bonded rail mounting, conductive door hinges and a unique side panel mounting system.

NET-ACCESS™ Switch Cabinets Roadmap

- Manages, protects, and showcases your network by combining the aesthetics and security of a cabinet with the accessibility of an open rack



Compatible

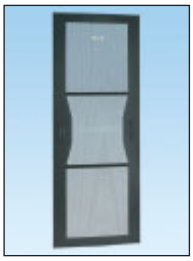
NET-ACCESS™ Switch Cabinets have tested compatible with Cisco MDS 9513 and Catalyst 6509.
Go to www.panduit.com/cisco1 for disclaimer.

Net-Access™ Switch Cabinets Roadmap (continued)

1 Cable Management – Vertical cable pathway design is optimized to provide unobstructed access; cable management finger sections can be located where needed on all four posts and align with rack spaces to ensure proper bend radius control



2 Dual Hinged Door – Door can be opened 180° to left or right enabling unobstructed access to adjacent cabinets and pathways



3 Thermal Management – Inset frame posts and cable management ensure clear pathways to provide proper heat dissipation; optional air ducts provide exhaust channels for high heat density applications



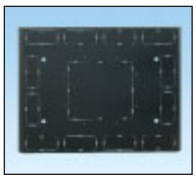
4 Grounding and Bonding – Entire cabinet is fully electrically bonded including equipment rails, doors and side panels; when combined with *StructuredGround*™ Grounding System, promotes protection of equipment and personnel



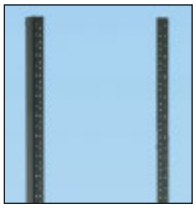
5 Easily Accessible Casters and Leveling Legs – Leveling legs can be safely and easily adjusted and can retract into the cabinet frame; optional casters mount to side of posts for safe, easy field installation



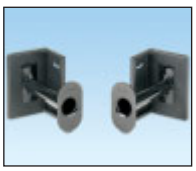
6 Routing Options for Overhead and Underfloor Cabling – Knockouts in the top allow multiple options for overhead cable routing; large bottom openings provide pathways for routing cables from underfloor



7 Adjustable Equipment Rails – Front and rear rails are fully adjustable to accommodate a variety of equipment and have printed rack space identification



8 Optional Slack Spools – Slack management spools organize and manage patch cord slack; spools are available in side mount for single cabinet or center mount for ganged application



9 *Cool Boot*™ Raised Floor Air Sealing Grommet – The raised floor air sealing grommet reduces bypass airflow and prevents debris from falling below the raised floor; grommets are available in different sizes for a variety of applications



10 Versatile Cable Routing – The *Net-Access*™ Overhead Cable Routing System is a high capacity data cable pathway used directly over the *Net-Access*™ Cabinets; eliminates the need for multiple infrastructure elements, reducing installation time



Cable Capacity Chart

Channel	No Slack Spool							With Slack Spool						
	Channel Area		Cable Capacity*					Channel Area		Cable Capacity*				
	In.²	cm²	Cat. 6A (.298")	Cat. 6A (.289")	Cat. 6 (.250")	Cat. 5e (.187")	Fiber (3mm)	In.²	cm²	Cat. 6A (.298")	Cat. 6A (.289")	Cat. 6 (.250")	Cat. 5e (.187")	Fiber (3mm)
End	42.2	272.3	242	257	343	614	1,540	32.4	209.0	185	197	264	471	1,182
Center	84.4	544.5	484	514	687	1,229	3,081	74.6	481.3	427	454	607	1,086	2,723

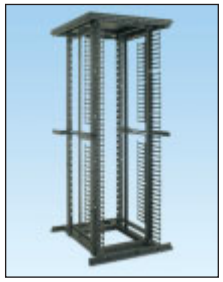
*Note: Capacities are based upon a fill rate of 40% to accommodate proper cable routing applications.
All dimensions represent typical outer cable diameter in inches (mm).

NET-ACCESS™ Switch Cabinets

- Inset frame posts create large and accessible vertical pathways for routing cables
- Modular cable management fingers easily mount to the front and/or back of all four cabinet posts
- Designed with the use of CFD (computational fluid dynamics) analysis and thermal lab testing to optimize the thermal performance of network switches requiring side-to-side airflow
- Accommodate equipment mounting depths up to 25.9" (658mm)
- Innovative, fully integrated, electrically bonded cabinet with a single ground connection to guard against EMI and ESD, and provide a safe current path to ground
- Four adjustable equipment mounting rails – available in cage nut or #12-24 threaded with printed rack space identification
- Equipment rails have printed rack space numbering that can be oriented numbers up or down
- Durable black polyester epoxy powder coat finish
- 2,500 lbs. (1134 kg) load rating
- Cabinet ships assembled, one per pallet
- For the complete grounding solution, see the STRUCTUREDGROUND™ Kits for Cabinets selection guide on pages M.10 – M.11


CN1


CN2


CN3


CN4

Part Number	Part Description	Std. Pkg. Qty.
NET-ACCESS® Switch Cabinets		
CN1	Cabinet frame with top panel. Dual hinge perforated front door opens to the left or right. Split perforated rear doors open in the middle to minimize door swing footprint. Solid side panels. Two sets of #12-24 threaded equipment mounting rails. 45 RU cable management on front and rear of front posts. Dimensions: 84.0"H x 31.5"W x 41.1"D (2134mm x 800mm x 1044mm)	1
CN2	Cabinet frame with top panel. Dual hinge perforated front door opens to the left or right. Split perforated rear doors open in the middle to minimize door swing footprint. Two sets of #12-24 threaded equipment mounting rails. 45 RU cable management on front and rear of front posts. Dimensions: 84.0"H x 31.5"W x 41.1"D (2134mm x 800mm x 1044mm)	1
CN3	Cabinet frame with top panel. Two sets of #12-24 threaded equipment mounting rails. 45 RU cable management on front and rear of front posts. Dimensions: 84.0"H x 31.5"W x 41.0"D (2134.0mm x 800.0mm x 1044.0mm)	1
CN4	Cabinet frame with top panel. Split perforated front and rear doors open in the middle to minimize door swing footprint. Solid side panels. Set of two #12-24 threaded equipment mounting rails. 45 RU cable management on front and rear of front posts. Dimensions: 84.0"H x 31.5"W x 40.0"D (2134mm x 800mm x 1017mm)	1

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

NET-ACCESS™ Switch Cabinets (continued)


CNPS


CNBRFK


CNAE1


CNSPE


CNSPC

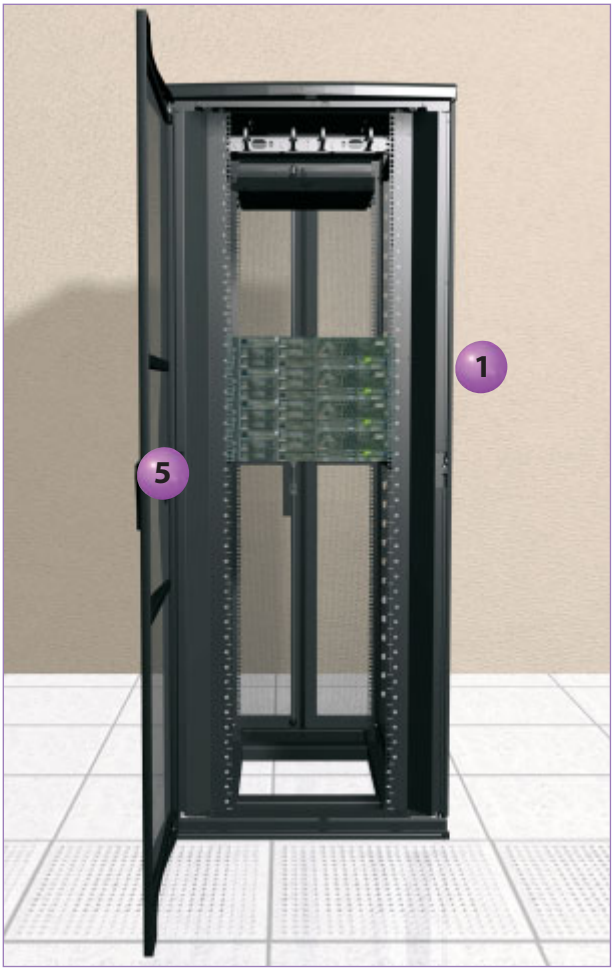

CNCSTR

Part Number	Part Description	Std. Pkg. Qty.
***NET-ACCESS*™ Switch Cabinet Options and Accessories**		
CNPS	Removable solid side panel with lockable push button latches.	1
CNBRFK	Network cabinet cable management finger kit, nine RU sections. Kit includes five left and five right finger sections to complete 45 RU on one side of post.	1
CNAE1	Network cabinet air exhaust duct for high heat density configurations. Designed for Cisco^ 6509 switch.	1
CNAE2	Network cabinet air exhaust duct for high heat density configurations. Designed for Cisco^ 9513 switch.	1
CNAE3	Network cabinet air exhaust duct for high heat density configurations. Designed for Cisco^ 6513 switch.	1
CNSPE	Network cabinet end channel slack spools. Package includes one left and one right slack spool and mounting brackets.	1
CNSPC	Network cabinet center channel slack spool. Package includes one center spool and mounting bracket.	1
CNCSTR	Network cabinet casters – set of four. Can be field installed without tipping cabinet.	1

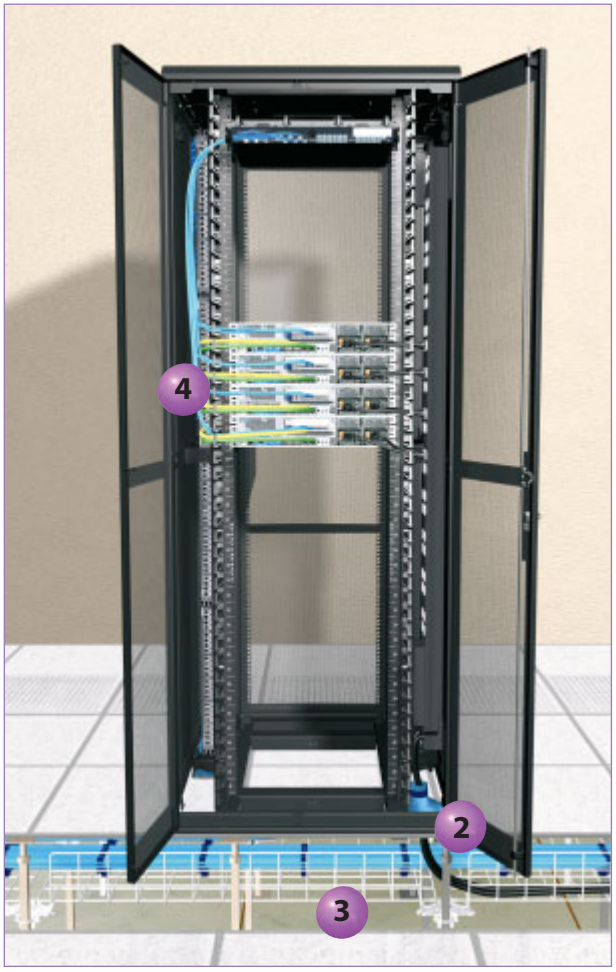
^Cisco is a registered trademark of Cisco Technology, Inc.

NET-ACCESS™ Server Cabinet System Roadmap

- The *NET-ACCESS*™ Server Cabinet provides scalable thermal management for low to high heat density applications. Superior cable management eliminates cable and power cord congestion behind the servers allowing server fans to more efficiently exhaust air from the cabinet. Air blocking features ensure that cold air is directed to the servers.



Front View



Rear View

1 ***NET-ACCESS***™ **Server Cabinet (page L.9)**



2 ***COOL BOOT***™ **Raised Floor Air Sealing Grommet (page L.25)**



3 ***GRIDRUNNER***™ **Underfloor Cable Routing System (page J.57)**



4 **Vertical Patch Panel Mounting (page L.9)**



5 **CNDSH Single Hinge Door (page L.9)**



Order number of pieces required, in multiples of Standard Package Quantity.

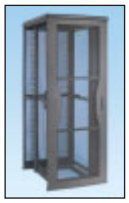
Prime items appear in **BOLD**.

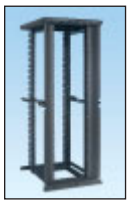
NET-ACCESS™ Server Cabinets

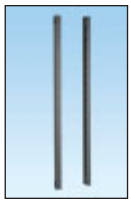
NEW!

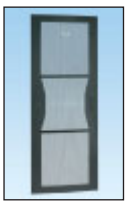
- Inset frame posts create large and accessible vertical pathways for routing cables and mounting vertical patch panels and Power Outlet Units
- Include vertical blanking panels to block bypass air and direct cold air through servers
- Modular cable management finger sections manage cables for greater routing flexibility
- Innovative, fully integrated, electrically bonded cabinet with a single ground connection to guard against EMI and ESD, and provide a safe current path to ground
- All welded frame construction
- Adjustable rear cage nut mounting rails
- Doors include keyed swing latches
- Side panels include keyed pushbutton latches
- Equipment mounting depths up to 29" (736.6mm)
- Durable black polyester epoxy powder coat finish
- UL Listed 2500 lbs. (1134 kg) load rating
- Cabinet ships assembled, one per pallet
- For the complete grounding solution, see the STRUCTUREDGROUND™ Kits for Cabinets

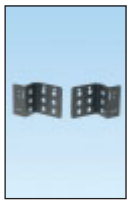

CS1


CS2


CS3


CSRCE


CNDSH


CVPDUB

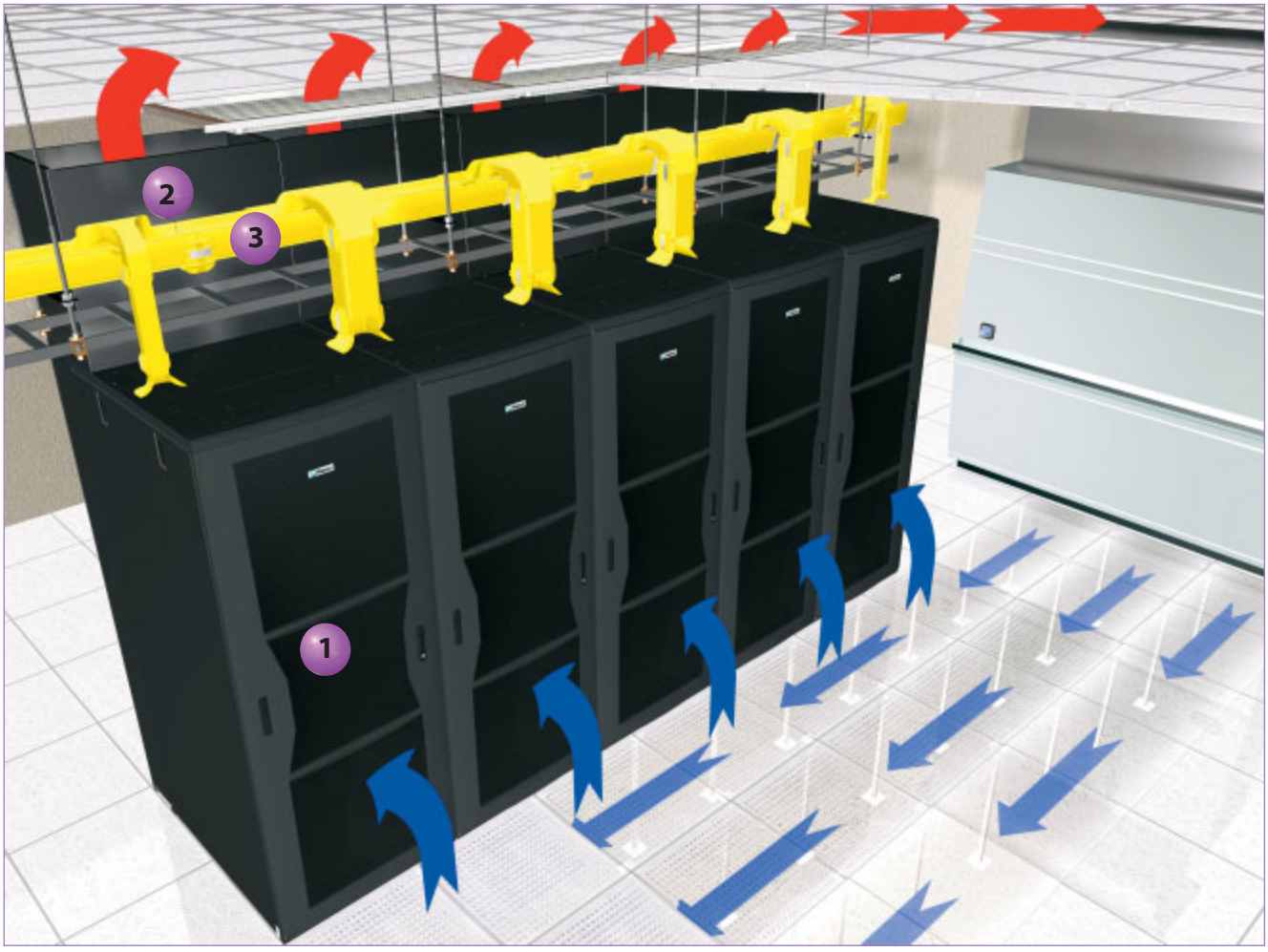

CVPPB


CNCSTR

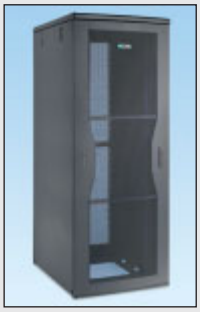
Part Number	Part Description	Std. Pkg. Qty.
NET-ACCESS® Server Cabinets		
CS1	Cabinet frame with top panel. Single hinge perforated front door. Split perforated rear doors open in the middle to minimize door swing footprint. Solid side panels. Two sets of cage nut equipment mounting rails. 45 RU cable management on rear of rear posts. One set of POU mounting brackets. Dimensions: 84.0"H x 31.5"W x 41.1"D (2134mm x 800mm x 1044mm)	1
CS2	Cabinet frame with top panel. Single hinge perforated front door. Split perforated rear doors open in the middle to minimize door swing footprint. Two sets of cage nut equipment mounting rails. 45 RU cable management on rear of rear posts. One set of POU mounting brackets. Dimensions: 84.0"H x 31.5"W x 41.1"D (2134mm x 800mm x 1044mm)	1
CS3	Cabinet frame with top panel. Two sets of cage nut equipment mounting rails. 45 RU cable management on rear of rear posts. One set of POU mounting brackets. Dimensions: 84.0"H x 31.5"W x 40.0"D (2134mm x 800mm x 1016mm)	1
NET-ACCESS® Server Cabinet Options and Accessories		
CSRCE	Extended front server cabinet cage nut equipment mounting rails, sold in pairs.	1
CNDSH	Single hinge door quickly reverses from left-hinging to right-hinging for increased data center design flexibility. Open perforated design enables optimum airflow to equipment.	1
CVPDUB	Bracket for vertical POU mounting to the side of the cabinet posts (kit of two).	1
CVPPB	Bracket to vertically mount 1 RU EIA 19" copper and fiber patch panels to the side of the cabinet posts.	1
CNCSTR	Network cabinet casters – set of four. Can be field installed without tipping cabinet.	1

NET-ACCESS™ Vertical Exhaust System Roadmap

- Innovative *NET-ACCESS*™ Vertical Exhaust System channels 20 kW+ of heat from server exhaust directly to the data center return plenum. By managing heat at the source the duct increases CRAC unit efficiency and significantly lowers operating expenses.



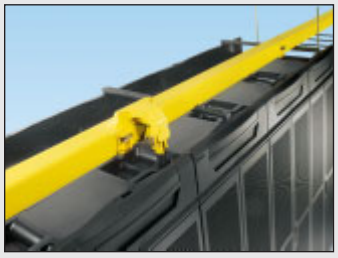
1 ***NET-ACCESS***™ **Server Cabinet (page L.9)**



2 **CVED32VE Variable Duct Extension (page L.11)**



3 ***FIBERRUNNER***® **Cable Routing System (page J.1)**



Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

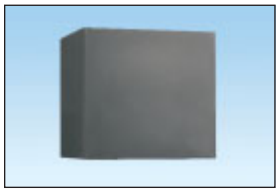
NET-ACCESS™ Vertical Exhaust Duct

NEW!

- For use with PANDUIT® NET-ACCESS™ Server Cabinet (CS Series)
- Engineered design minimizes required plenum area behind cabinet
- Cabinet extension adds 6.5" (165mm) to depth of cabinet
- Passive cooling system
- Directly vents up to 20 kW+ of the exhaust from servers into return plenum of data center



CVED32



CVED32VE

Part Number	Part Description	Std. Pkg. Qty.
CVED32	Vertical exhaust cabinet extension and solid rear split doors. Leveling legs and gasket kit included.	1
CVED32VE	Variable duct extension will telescope from 30.0" (762mm) to 60.0" (1524mm) in 1.0" (26mm) increments.	1

NET-ACCESS™ Cooling Door System Roadmap

The *NET-ACCESS*™ Cooling Door is placed directly at the heat source providing an effective and economical method of removing heat from the data center. When compared to hot aisle/cold aisle the *NET-ACCESS*™ Cooling Door contains fewer moving parts, consumes less energy, and provides a migration path to increased server density.

IBM cooling technology

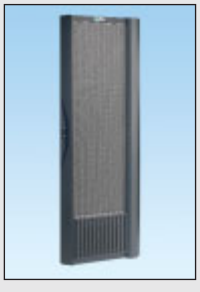
*IBM is a registered trademark of International Business Machines Corporation.
The IBM peel-back logo is owned by International Business Machines Corporation and is used under license from IBM.



1 ***NET-ACCESS***™ **Server Cabinet (page L.9)**



2 **Rear Door Heat Exchanger (page L.13)**



3 ***COOL BOOT***™ **Raised Floor Air Sealing Grommet**



4 ***GRIDRUNNER***™ **Underfloor Cable Routing System (page J.57)**



5 ***NET-ACCESS***™ **Overhead Cable Routing System (page L.13)**



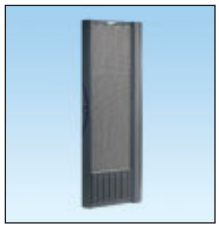
Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

NET-ACCESS™ Cooling Door

NEW!

- For use with *PANDUIT*® *NET-ACCESS*™ Server Cabinets (CS Series)
- Door adds 6.5" (165mm) to depth of cabinet
- Passive liquid cooling system
- Removes up to 20 kW of the input heat load
- 1,219 square inches of surface area for heat transfer
- Quick connect 3/4" couplers
- Door opens 110° for easy access to cabling and equipment



CRDHX



CRDHXA32

Part Number	Part Description	Std. Pkg. Qty.
CRDHX	Cooling door. Dimensions: 82.6"H x 28.1"W x 5.1"D (2098.04mm x 713.74mm x 129.54mm) Door weight without water is 70 lbs. (32 kg)	1
CRDHXA32	Cooling door adapter for 31.5" (800mm) cabinet. Dimensions: 84.0"H x 31.5"W x 1.75"D (2133.60mm x 800.10mm x 44.45mm) Adapter weight is 27 lbs. (12kg)	1

NET-ACCESS™ Overhead Cable Routing System

NEW!

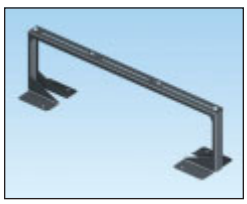
- Wide molded design provides a high capacity pathway that is self-supporting and does not need secondary mounting infrastructure
- Designed specifically for use with *NET-ACCESS*™ Switch and Server Cabinets
- Integral spillouts align with cable inlets on cabinet and provide" (75mm) bend radius control
- Clean, simple design complements *NET-ACCESS*™ Cabinets providing greater data center aesthetics



CRB6BL



CRBRDGBL



CRTB

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Base Unit			
CRB6BL	*NET-ACCESS*™ Overhead Cable Routing System base unit with 6" (150mm) high wall. Supplied with shroud and fasteners required for assembly to *NET-ACCESS*® Cabinets.	1	—
Bridge Insert			
CRBRDGBL	*NET-ACCESS*™ Overhead Cable Routing System bridge insert. Snaps into CRB6BL to cover unused cable spillouts and provide bend radius control for adjacent cabinet.	1	5
Trapeze Bracket			
CRTB	*NET-ACCESS*™ Overhead Cable Routing System trapeze bracket. Used to provide a mounting structure for integrating *FIBERRUNNER*® Cable Routing System to the base unit.	1	—

Rack Mount Power Outlet Units

- NEMA or IEC receptacles
- UL Listed and recognized per 60950
- Mounting brackets and screws included
- Circuit breakers to protect equipment from over-current conditions
- Power on indicator – green LED
- Models that include current monitor feature LED power meter to display AMPs, Volts, Watts, and Power Factor



CMRPSH15



CMRPSH20



RPSH163C13TL6

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
Horizontal			
CMRPSH15	19" horizontal power strip 15 Amp, 125 V, ten NEMA 5-15R receptacles, one 15 Amp thermal breaker, 10' power cord with NEMA 5-15P plug. UL and c-UL Recognized. Dimensions: 1.7"H x 19.0"W x 3.8"D (44mm x 483mm x 95mm)	1	1
CMRPSH20	19" horizontal power strip 20 Amp, 125 V, ten NEMA 5-20R receptacles, one 20 Amp thermal breaker, 10' power cord with NEMA 5-20P plug. UL and c-UL Recognized. Dimensions: 1.7"H x 19.0"W x 4.5"D (44mm x 483mm x 95mm)	1	1
CMRPSH20CM	19" horizontal power strip 20 Amp, 125 V, ten NEMA 5-20R receptacles, one 20 Amp thermal breaker, red LED current monitor, 10' power cord with NEMA 5-20P plug. UL and c-UL Recognized. Dimensions: 1.7"H x 19.0"W x 4.5"D (43mm x 483mm x 114mm)	1	1
RPSH163C13TL6	19" horizontal power strip 30 Amp, 250 V, sixteen IEC C-13 receptacles, four 15 Amp thermal breakers, 10' power cord with NEMA L6-30P twist lock plug. UL and c-UL Listed. Dimensions: 3.5"H x 19.0"W x 1.6"D (88mm x 483mm x 41mm)	2	1
RPSH163C13TL6M	Horizontal power strip 30 Amp, 250 V, sixteen IEC C-13 receptacles, four 15 Amp thermal breakers, red LED current monitor, and 10' power cord with NEMA L6-30P twist lock plug. UL and c-UL Listed. Dimensions: 3.5"H x 19"W x 1.6"D (88mm x 483mm x 41mm)	2	1

^One rack space = 1.75". (44.45mm).
All product color is black.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

c UL us Rack Mount Power Outlet Units (continued)

CMRPSV20



CMRPSVD20



RPSH103C13TL6M



RPSV243620TL6

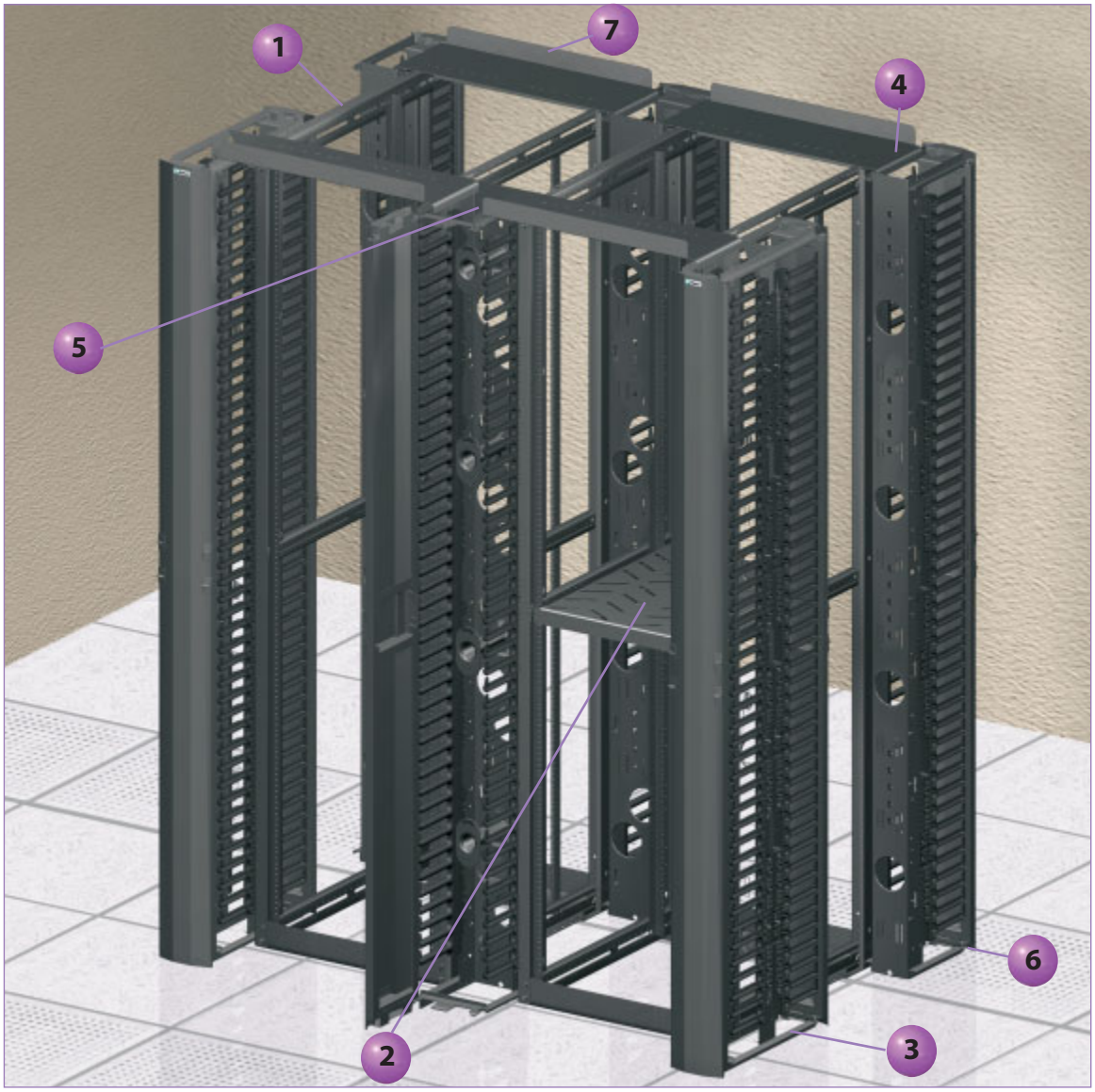


Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
Vertical			
CMRPSV20	Vertical power strip with a 20 Amp, 125 V, ten NEMA 5-20R receptacles, one 20 Amp thermal breaker, 10' power cord with NEMA 5-20P plug. UL and c-UL Recognized. Dimensions: 38.5"H x 1.9"W x 1.3"D (978mm x 47mm x 33mm)	—	1
CMRPSV20TL	Vertical power strip with a 20 Amp, 125 V, ten NEMA 5-20R receptacles, one 20 Amp thermal breaker, 10' power cord with NEMA 5-20P twist lock plug. UL and c-UL Recognized. Dimensions: 38.5"H x 1.9"W x 1.3"D (978mm x 47mm x 33mm)	—	1
CMRPSVD20	Vertical power strip with dual 20 Amp, 125 V circuits, ten NEMA 5-20R receptacles per circuit, two 20 Amp thermal breakers, two 15' power cords with NEMA 5-20P plugs. UL and c-UL Listed. Dimensions: 66.3"H x 1.9"W x 1.3"D (1683mm x 47mm x 33mm)	—	1
CMRPSVD20TL	Vertical power strip with dual 20 Amp, 125 V circuits, ten NEMA 5-20R receptacles per circuit, two 20 Amp thermal breakers, two 15' power cords with NEMA L5-20P twist lock plug. UL and c-UL Listed. Dimensions: 66.3"H x 1.9"W x 1.3"D (1683mm x 47mm x 33mm)	—	1
RPSH103C13TL6M	19" horizontal or vertical power strip 30 Amp, 250 V, ten IEC C-13 receptacles, four 15 Amp thermal breakers, red LED current monitor, 10' power cord with NEMA L6-30P twist lock plug. Mounts horizontal or vertical. UL and c-UL Listed. Dimensions: 43mm x 483mm x 41mm	1	1
RPSV243520TL5	Vertical power strip 30 Amp, 125 V, 24 NEMA 5-20R receptacles, two 20 Amp single pole magnetic breaker/switch with integral switch guard, 10' power cord with NEMA L5-30P twist lock plug. UL and c-UL Listed. Dimensions: 66.3"H x 2.0"W x 2.0"D (1683mm x 51mm x 51mm)	—	1
RPSV243620TL6	Vertical power strip 30 Amp, 250 V, 24 NEMA 6-20R receptacles, two 20 Amp double pole magnetic breaker/switch with integral switch guard, 10' power cord with NEMA L6-30P twist lock plug, UL and c-UL Listed. Dimensions: 66.3"H x 2.0"W x 2.0"D (1683mm x 51mm x 51mm)	—	1

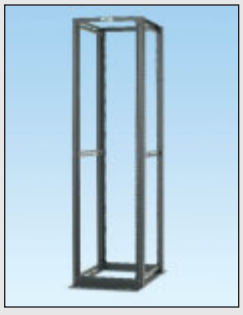
^One rack space = 1.75". (44.45mm).
All product color is black.

4 Post Rack System Roadmap

- Supports deep networking equipment; the rack combines the stability of a cabinet with the accessibility of an open rack to provide maximum flexibility



1 **CMR4P84 – 4 Post Rack 19" x 7', 45 RU (page L.17)**



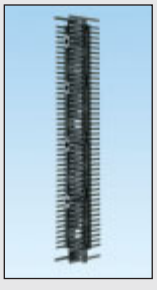
2 **NF4PSHLF19X23 – 4 Post Rack Shelf 19"W x 23"D (page L.18)**



3 **PRV6 – Vertical Cable Manager 6" Wide (page L.21)**

4 **PRVF6 – Vertical Cable Manager 6" Wide (page L.21)**

5 **PRVF8 – Vertical Cable Manager 8" Wide (page L.21)**



6 **RFG6X8 – *Cool Boot*™ Raised Floor Air Sealing Grommet (page L.25)**



7 **CMR4PWF (page L.18)**



Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

4 Post Cable Management Rack System and Accessories

- Independent adjustable front and rear mounting rails can be adjusted while the rack is secured to the floor
- Printed rack space identification on all equipment rails allows for quick location of rack spaces, speeding installation of rack mount items
- Rack is UL listed for 2,000 lbs. load rating
- Rear rail construction provides a clear ventilation path for side ventilated switches
- Multiple mounting holes in top flanges for securing ladder rack
- Weld nut construction eliminates the need for a second wrench increasing speed and ease of assembly
- Multiple mounting locations for vertical power strips on any of the four posts or on the adjustable mounting rails
- *PatchRunner*™ and *NetRunner*™ Vertical Cable Managers mount directly to the 4 post rack at any of the four corners to provide a flexible end-to-end cable management solution
- Paint piercing washers included to electrically bond rack for simplified grounding
- For the complete grounding solution, see the *StructuredGround*™ Kits for Racks selection guide on pages M.12 – M.13



CMR4P84
CMR4P84CN

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
7' 4 Post Rack				
CMR4P84	4 post EIA rack with #12-24 threaded rails. Dimensions: 84.0"H x 23.3"W x 30.2"D (2134mm x 591mm x 767mm)	45	1	—
CMR4P84NU	4 post EIA rack with #12-24 threaded rails, numbered up. Dimensions: 84.0"H x 23.3"W x 30.2"D (2134mm x 591mm x 767mm)	45	1	—
CMR4P84CN	4 post EIA rack with cage nuts. Includes 25 #12-24 cage nuts. Dimensions: 84.0"H x 23.3"W x 30.2"D (2134mm x 591mm x 767mm)	45	1	—
CMR4P84CNNU	4 post EIA rack with cage nuts numbered up. Includes 25 #12-24 cage nuts. Dimensions: 84.0"H x 23.3"W x 30.2"D (2134mm x 591mm x 767mm)	45	1	—
CMR4P84D23	4 post EIA rack with #12-24 threaded rails. Dimensions: 84.0"H x 23.3"W x 23.2"D (2134mm x 591mm x 584mm)	45	1	—
CMR4P84D23NU	4 post EIA rack with #12-24 threaded rails, numbered up. Dimensions: 84.0"H x 23.3"W x 23.3"D (2134mm x 591mm x 584mm)	45	1	—
CMR4P84D23CN	4 post EIA rack with #12-24 cage nuts. Dimensions: 84.0"H x 23.3"W x 23.2"D (2134mm x 591mm x 584mm)	45	1	—
CMR4P84D23CNNU	4 post EIA rack with cage nuts numbered up. Includes 25 #12-24 cage nuts. Dimensions: 84.0"H x 23.3"W x 23.3"D (2134mm x 591mm x 584mm)	45	1	—

^One rack space = 1.75" (44.45mm).
All product color is black.

Table continues on page L.18

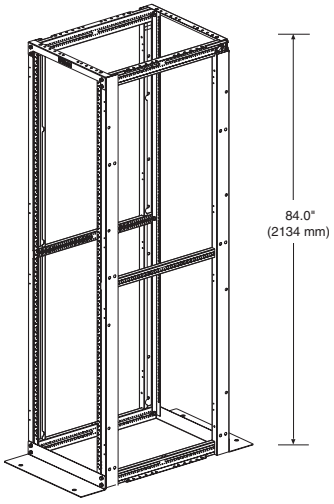
4 Post Cable Management Rack System and Accessories (continued)

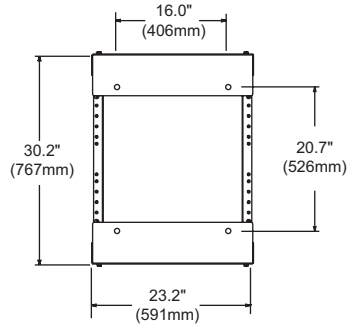


CMR4PWF

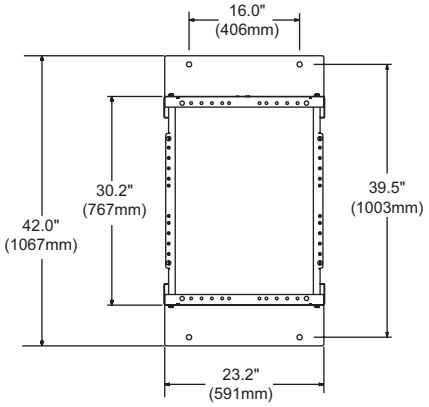
Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
8' 4 Post Rack				
CMR4P96	4 post EIA rack with #12-24 threaded rails. Dimensions: 96.1"H x 23.3"W x 30.2"D (2441mm x 591mm x 767mm)	52	1	—
CMR4P96CN	4 post EIA rack with cage nuts. Includes 25 #12-24 cage nuts. Dimensions: 96.1"H x 23.3"W x 30.2"D (2441mm x 591mm x 767mm)	52	1	—
4 Post Rack Accessories				
CMR4PWF	Optional top trough with waterfall creates pathway above rack. Dimensions: 1.9"H x 26.1"W x 8.5"D (50mm x 662mm x 216mm)	—	1	—
CNWS1224-C	#12-24 cage nut and screws.	—	100	1000
CNWSM5-C	M5 screw with cage nut.	—	100	1000
CNWSM6-C	M6 screw with cage nut.	—	100	1000
NF4PSHLF19	4 post rack mount shelf, 250 lbs. load rating. Dimensions: 1.7"H x 19.0"W x 32.0"D (44mm x 483mm x 816mm)	1	1	—
NF4PSHLF19X23	4 post rack mount shelf, 250 lbs. load rating. Dimensions: 1.7"H x 19.0"W x 23.0"D (44mm x 483mm x 587mm)	1	1	—

^One rack space = 1.75" (44.45mm).
All product color is black.





Floor Footprint with Base Angles Turned Inward



Floor Footprint with Base Angles Turned Outward for Extended Footprint

CMR4P84 and CMR4P84CN Rack Footprint

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

PATCHRUNNER™ Vertical Cable Management Rack System Roadmap

- Available in 7' and 8' versions



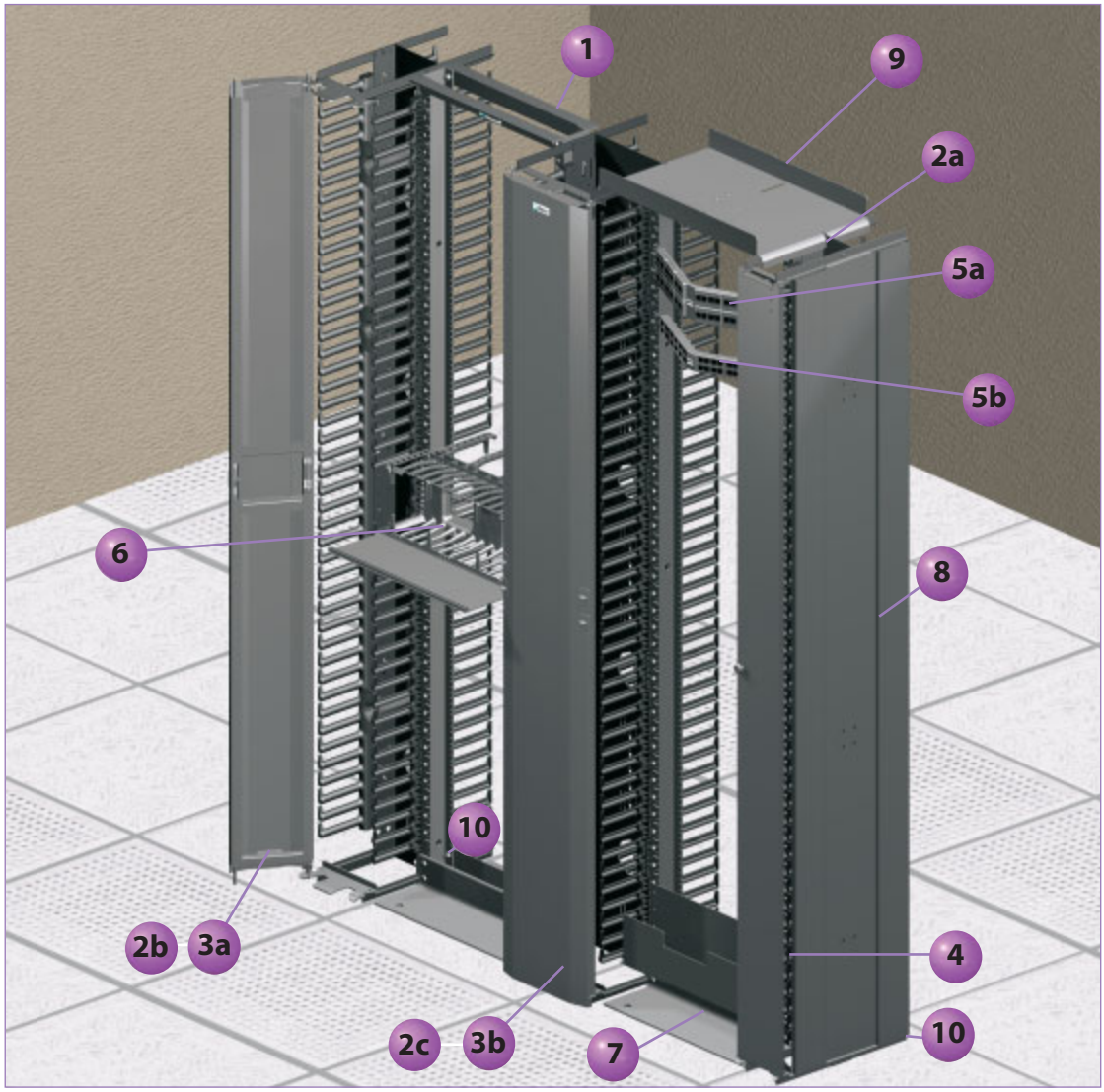
Cable Capacity Chart

	Front Channel with Spool					Front Channel No Spool					Rear Channel				
	Channel	Cable Capacity				Channel	Cable Capacity				Channel	Cable Capacity			
Part Number	Area (In.²)	Cat. 6A (.298")	Cat. 6A (.289")	Cat. 6 (.250")	Cat. 5e (.187")	Area (In.²)	Cat. 6A (.298")	Cat. 6A (.289")	Cat. 6 (.250")	Cat. 5e (.187")	Area (In.²)	Cat. 6A (.298")	Cat. 6A (.289")	Cat. 6 (.250")	Cat. 5e (.187")
PRV6* (front/rear)	28.2	—	—	—	(.187")	37.8	189	201	269	481	27.6	138	147	196	351
PRVF6* (front only)	28.2	—	—	—	—	37.8	189	201	269	481	—	—	—	—	—
PRV8* (front/rear)	44.7	224	238	318	569	54.3	272	289	387	691	39.0	195	207	277	496
PRVF8* (front only)	44.7	224	238	318	569	54.3	272	289	387	691	—	—	—	—	—
PRV10* (front/rear)	61.1	306	326	435	779	70.7	354	377	504	901	50.3	252	268	358	641
PRVF10* (front only)	61.1	306	326	435	779	70.7	354	377	504	901	—	—	—	—	—
PRV12* (front/rear)	77.6	389	414	553	988	87.2	437	465	621	1111	61.7	309	329	439	786
PRVF12* (front only)	77.6	389	414	553	988	87.2	437	465	621	1111	—	—	—	—	—
PRV15* (front/rear)	102.3	513	545	729	1303	111.9	561	596	797	1425	78.7	395	420	561	1003
PRVF15* (front only)	102.3	513	545	729	1303	111.9	561	596	797	1425	—	—	—	—	—

Note: Capacities are based upon a fill rate of 35% to accommodate proper cable routing techniques.
For comparison, multiply by 1.5 for a fill rate of 50%.
All dimensions represent typical outer cable diameter in inches (mm).
*For part numbers that fit 8' rack, add "96" to the end of the part number.

PatchRunner™ Vertical Cable Management Rack System Roadmap

- Vertical cable management system that can manage high-density network equipment and patch panels in up to half the number of racks required by traditional horizontal and vertical cable management systems



1 CMR19X84 – 19" Standard EIA Rack 19" x 7', 45 RU (page L.26)

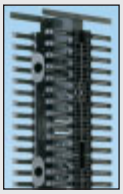


***PatchRunner*™ VERTICAL MANAGERS**

2a PRV6 – 6" wide (page L.21)

2b PRV8 – 8" wide (page L.21)

2c PRV12 – 12" wide (page L.21)

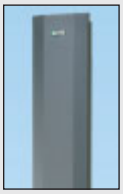


HINGED DOORS

3a PRD8 – Dual Hinge, 8" wide (page L.22)

3b PRD12 – Dual Hinge, 12" wide (page L.22)

4 PRSHD6 – Single Hinge, 6" wide (shown) (page L.22)



ANGLED MODULAR PATCH PANELS

5a CPPLA48WBLY – 2 RU, 48-Port (page B.56)



5b CPPA48HDWBLY – 1 RU, High Density 48-Port (page B.55)



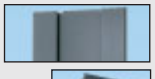
6 NM4 – Cable Pathway, 4 RU (page L.29)



7 CMT4 – Trough, 4 RU (page L.32)



8 PREP – End Panel (page L.22)



9 CRTW – Rack Top Trough (page L.22)



10 RFG6X8 – *Cool Boot*™ Raised Floor Air Sealing Grommet (page L.25)



Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

PATCHRUNNER™ Vertical Cable Management System

- High density minimizes area required for network layout, freeing up valuable floor space
- Curved cable management fingers support cables as they transition to the vertical pathway eliminating the need for horizontal managers
- Individual fingers can be removed without the use of a tool for routing of large cable bundles
- Fingers align with rack spaces simplifying cable routing
- Slack management spools organize and manage patch cord slack allowing standardization of patch cords
- Optional hinged doors provide easy access to vertical pathway; purchased separately from manager
- Available in 7' and 8' versions



PRV8



PRVF8

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
Vertical Manager – Manage Cable on Front and Rear of Rack*				
PRV15*	Vertical cable manager, includes four PRSP7 slack spools. Dimensions: 83.9"H x 15.0"W x 16.4"D (2131mm x 381mm x 417mm)	45	1	—
PRV12*	Vertical cable manager, includes four PRSP7 slack spools. Dimensions: 83.9"H x 12.0"W x 16.4"D (2131mm x 305mm x 417mm)	45	1	—
PRV10*	Vertical cable manager, includes four PRSP7 slack spools. Dimensions: 83.9"H x 10.0"W x 16.4"D (2131mm x 254mm x 417mm)	45	1	—
PRV8*	Vertical cable manager, includes four PRSP7 slack spools. Dimensions: 83.9"H x 8.0"W x 16.4"D (2131mm x 203mm x 417mm)	45	1	—
PRV6*	Vertical cable manager, spools are not included. Dimensions: 84"H x 6"W x 16.4"D (2133.6mm x 152.4mm x 416.6mm)	45	1	—
Vertical Manager – Manage Cable on Front of Rack Only*				
PRVF15*	Vertical cable manager, includes four PRSP7 slack spools. Dimensions: 83.9"H x 15.0"W x 9.7"D (2131mm x 381mm x 246mm)	45	1	—
PRVF12*	Vertical cable manager, includes four PRSP7 slack spools. Dimensions: 83.9"H x 12.0"W x 9.7"D (2131mm x 305mm x 246mm)	45	1	—
PRVF10*	Vertical cable manager, includes four PRSP7 slack spools. Dimensions: 83.9"H x 10.0"W x 9.7"D (2131mm x 254mm x 246mm)	45	1	—
PRVF8*	Vertical cable manager, includes four PRSP7 slack spools. Dimensions: 83.9"H x 8.0"W x 9.7"D (2131mm x 203mm x 246mm)	45	1	—
PRVF6*	Vertical cable manager, spools are not included. Dimensions: 83.9"H x 6.0"W x 9.7"D (2131mm x 152mm x 246mm)	45	1	—

^One rack space = 1.75" (44.45mm).
All product color is black.
*For part numbers that fit 8' rack, add "96" to end of part number. Overall height for managers is 95.5" (2426mm). Overall door height is 94.4" (2399mm).

Table continues on page L.22

PATCHRUNNER™ Vertical Cable Management System (continued)



PRD8



PRSHD8



PREP



PRSP7



CRTW

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
Doors				
PRD15*	Dual hinged metal door. Dimensions: 82.8"H x 15.1"W x 1.6"D (2104mm x 384mm x 40mm)	45	1	—
PRD12*	Dual hinged metal door. Dimensions: 82.8"H x 12.1"W x 1.6"D (2104mm x 308mm x 40mm)	45	1	—
PRD10*	Dual hinged metal door. Dimensions: 82.8"H x 10.1"W x 1.6"D (2104mm x 257mm x 40mm)	45	1	—
PRD8*	Dual hinged metal door. Dimensions: 82.8"H x 8.1"W x 1.6"D (2104mm x 206mm x 40mm)	45	1	—
PRD6*	Dual hinged metal door. Dimensions: 82.8"H x 6.1"W x 1.6"D (2104mm x 206mm x 40mm)	45	1	—
PRSHD12	Single hinged metal door. Dimensions: 80.7"H x 12.0"W x .8"D (2049mm x 305mm x 20mm)	45	1	—
PRSHD8	Single hinged metal door. Dimensions: 80.7"H x 8.0"W x .8"D (2049mm x 203mm x 20mm)	45	1	—
PRSHD6	Single hinged metal door. Dimensions: 80.7"H x 6.0"W x .8"D (2049mm x 152mm x 20mm)	45	1	—
Accessories				
PRSP7	Molded plastic slack spool, front only. Dimensions: 7.0"D x 1.3" dia. (178mm x 32mm)	—	1	10
PRSP5	Molded plastic slack spool, front or rear. Dimensions: 5.25"D x 1.3" dia. (133mm x 32mm)	—	1	10
PREP	End panel. Dimensions: 82.5"H x 14.5"W x .7"D (2095mm x 367mm x 18mm)	—	1	—
PREP96	End panel. Dimensions: 94.1"H x 14.5"W x .7"D (2390mm x 367mm x 18mm)	—	1	—
CRTW	Rack top trough with waterfall creates pathway above rack, for use with CMR19X84, PRV6, PRV8, PRV10, PRV12 and PRV15. Dimensions: 3.3"H x 23.4"W x 14.0"D (84mm x 594mm x 356mm)	—	1	—
WR5E-X	Snap-on finger cable retainers.	—	10	100

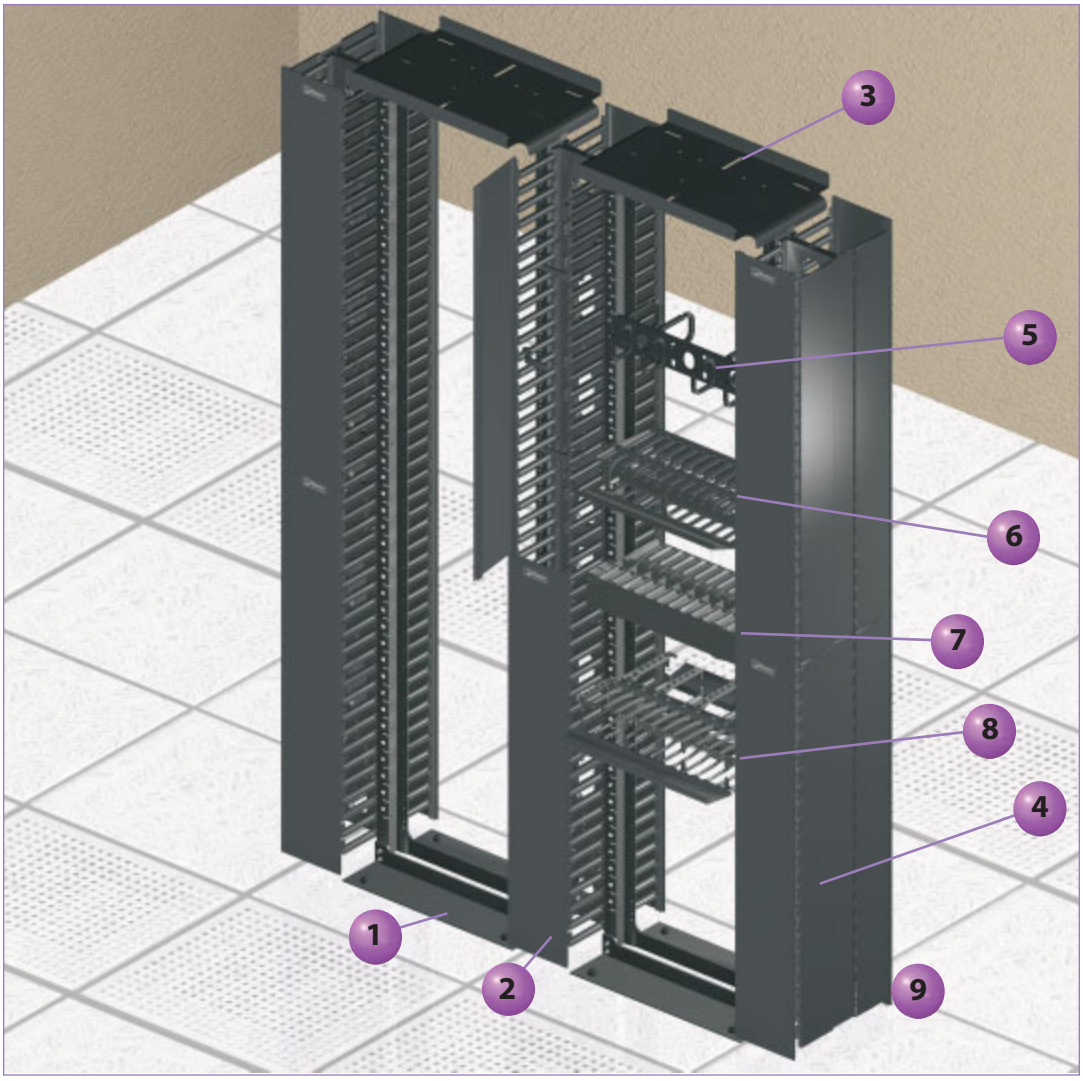
^One rack space = 1.75" (44.45mm).
All product color is black.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

NetRunner™ Vertical Cable Management Rack System Roadmap

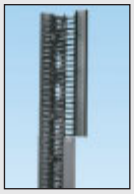
- Vertical cable managers designed for use on EIA standard, 3" channel racks. Used with horizontal cable managers to support low to mid-density patch panel applications.



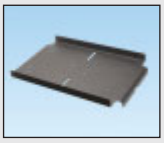
1. **CMR19X84 – 19" Standard EIA Rack, 19" x 7', 45 RU (page L.26)**



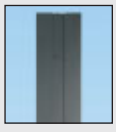
2. **WMPVHC45E (shown) – 6" Wide Front and Rear Vertical Manager – 45 RU**
   WMPV45E – 4" Wide Front and Rear Vertical Manager – 45 RU (page L.24)



3. **WMPV45ERTW – Rack Top Trough with Waterfall creates pathway above rack, for use with CMR19X84 and WMPV45E and WMPVHC45E (page L.24)**



4. **WMPVHC45EP (shown) – End Panel for WMPVHC45E**
   WMPV45EP – End Panel for WMPV45E (page L.24)



5. **CMPH2 – 2 RU *Open-Access*™ Horizontal Cable Manager D-rings installed on panels Front D-ring size 3"H x 3"D Rear D-ring size 3"H x 5"D Width 19" (page L.31)**



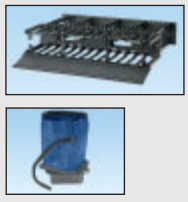
6. **WMPH2E – 2 RU *PatchLink*™ Horizontal Cable Manager Front pathway 3"H x 3"D Rear pathway 2"H x 5"D Width 20.2" (page L.28)**



7. **NCMH2 – *Net-Manager*™ Horizontal Cable Manager (page L.30)**



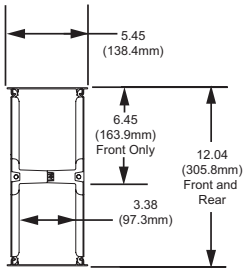
8. **NM2 – 2 RU *NetManager*™ High Capacity Horizontal Cable Manager (page L.29)**



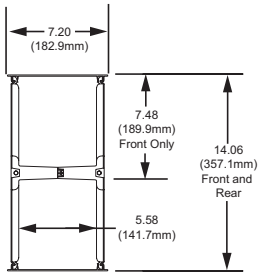
9. **RFG6X8 – *Cool Boot*™ Raised Floor Air Sealing Grommet (page L.25)**

NETRUNNER™ Vertical Cable Management

- Large finger openings accommodate up to 24 Category 6 cables
- Integral cable retainers on the end of each finger to help contain cables within each rack unit
- Bend radius fingers align with rack spaces to support cables as they transition to the vertical pathway
- Dual hinged covers can be opened 110° to the left or right to provide complete access to the cables inside the vertical pathway
- Snap-on cable retainers can be placed on to fingers to help retain cables in channel during installation and maintenance
- Vertical managers include hinged covers, cable retainers, mounting brackets and #12-24 screws



WMPV45E/WMPV22E



WMPVHC45E

Cable Capacity Chart

	Category 6A (.298")		Category 6A (.289")		Category 6 (.250")		Category 5e (.187")	
Part Number	**Front**	**Rear**	**Front**	**Rear**	**Front**	**Rear**	**Front**	**Rear**
WMPV22E	92	92	98	98	131	131	235	235
WMPVF22E	92	—	98	—	131	—	235	—
WMPV45E	92	92	98	98	131	131	235	235
WMPVF45E	92	—	98	—	131	—	235	—
WMPVHC45E	173	173	184	184	245	245	439	439
WMPVHCF45E	173	—	184	—	245	—	439	—

Note: Capacities are based upon a fill rate of 35% to accommodate proper cable routing techniques.
For comparison, multiply by 1.5 for a fill rate of 50%.



WMPV45E **WMPVF45E**

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
Vertical Cable Managers – Front and Rear				
WMPV22E	Front and rear vertical manager.	22	1	—
WMPVHC45E	Front and rear vertical manager. Dimensions: 80.4"H x 6.7"W x 13.8"D (2042.2mm x 170.2mm x 350.2mm) Includes hinged covers, wire retainers, and side mount brackets.	45	1	—
WMPV45E	Front and rear vertical manager.	45	1	—
Vertical Cable Managers – Front Only				
WMPVF22E	Front only vertical manager.	22	1	—
WMPVHCF45E	Front only vertical manager.	45	1	—
WMPVF45E	Front only vertical manager.	45	1	—
Accessories				
WMPVCBE	*NETRUNNER*™ Center Mount Bracket Kit allows mounting to adjacent racks. 4 brackets per kit.	—	1	10
WMPVSMK	*NETRUNNER*™ Side Mount Hardware Kit for use with *PANDUIT* DR84, NFR84, CMR4P84, CMR4P84CN and CMR19X84S racks.	—	1	10
WMPVCMB	Rack adapter bracket kit. Front or back mounted on racks with dimensions up to 1 5/8" (41.1mm) from outside edge of rack to center of the mounting hole. Two kits are required for center mounting of *NETRUNNER*™ Managers. 4 brackets per kit.	—	1	10
WMPVHC45EP	End panel for use with WMPVHC45E. Includes two panel sections to cover 45 RU on one side.	—	1	—
WMPV45EP	End panel for use with WMPV45E. Includes two panel sections to cover 45 RU on one side.	—	1	—
WMPV45ERTW	Rack top trough with waterfall creates pathway above rack, for use with CMR19X84 and WMPV45E/WMPVHC45E.	—	1	—
WR5E-X	Snap-on finger cable retainers.	—	10	100

^One rack space = 1.75" (44.45mm).
All product color is black.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Cool Boot® Raised Floor Air Sealing Grommet

- Airtight fabric minimizes bypass of air through cutouts in the raised floor to improve cooling of network equipment, minimizing the risk of overheating
- *Ultra Cinch*® Tie closes top of fabric to prevent air from escaping around cable bundles
- Electrostatic dissipative material provides a pathway to ground reducing the chance of damaging network equipment with electric shock
- Vertical *Tak-Ty*® Hook & Loop Cable Tie closure system allows for installation on existing cable bundles
- Horizontal *Tak-Ty*® Hook & Loop Cable Tie closure system allows two or more bundles to be separated in existing or new installations
- Flexible polycarbonate outer ring houses fabric to allow user to secure product to raised floor tile; slit allows outer ring to flex so entire cable bundle can be inserted to allow for retrofit installations even when vertical cable managers are already in place
- Low profile polycarbonate outer ring extends 7/16" (11.1mm) above top of raised floor tile to allow compatibility with vertical cable managers
- Self-tapping #10 screws (included) allow a secure fastening method to top of raised floor tile that also provide a pathway to ground
- Material: Black electrostatic dissipative flame retardant polycarbonate outer ring with navy blue electrostatic dissipative flame retardant fabric
- Manufactured from flame retardant materials



RFG*X*SMY

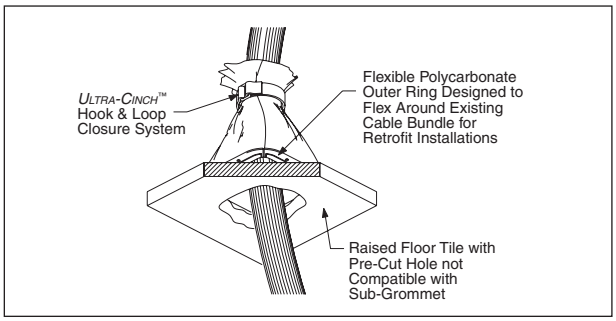


RFG*X*Y

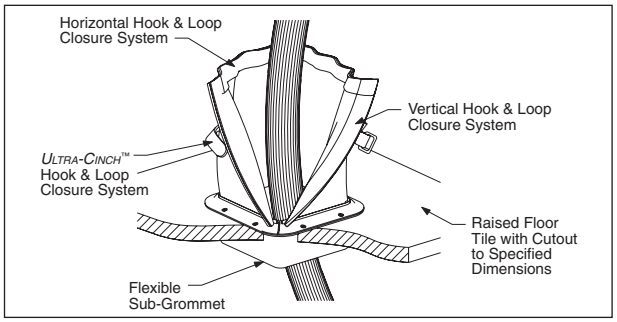
Part Number	Part Description	Cable Capacity Cat. 6A (.289)	Cable Capacity Cat. 6 (.250)	Cable Capacity Cat. 5e (.187)	Std. Pkg. Qty.	Std. Ctn. Qty.
Surface Mount						
RFG6X8SMY	Overall size of 6" x 8" (152.4mm x 203.2mm) allows for 4.2" x 6.2" (106.7mm x 157.5mm) capacity.	189	253	452	1	10
RFG8X8SMY	Overall size of 8" x 8" (203.2mm x 203.2mm) allows for 6.2" x 6.2" (157.5mm x 157.5mm) capacity.	282	377	675	1	10
RFG10X8SMY	Overall size of 10" x 8" (254.0mm x 203.2mm) allows for 8.2" x 6.2" (208.3mm x 157.5mm) capacity.	375	502	897	1	10
RFG12X4SMY	Overall size of 12" x 4" (304.8mm x 101.6mm) allows for 10.2" x 2.2" (259.1mm x 55.9mm) capacity.	160	214	383	1	10
RFG12X8SMY	Overall size of 12" x 8" (304.8mm x 203.2mm) allows for 10.2" x 6.2" (259.1mm x 157.5mm) capacity.	469	626	1120	1	10
RFG3DSMY	Overall size of 4.8" (121.9mm) diameter allows for 2.7" (68.6mm) diameter capacity.	40	54	97	1	10
RFG5DSMY	Overall size of 6.8" (172.7mm) diameter allows for 4.7" (119.4mm) diameter capacity.	127	170	304	1	10
Integral Mount*						
RFG6X8Y	Overall size of 6" x 8" (152.4mm x 203.2mm) allows for 4.2" x 6.2" (106.7mm x 157.5mm) capacity.	189	253	452	1	10
RFG8X8Y	Overall size of 8" x 8" (203.2mm x 203.2mm) allows for 6.2" x 6.2" (157.5mm x 157.5mm) capacity.	282	377	675	1	10
RFG10X8Y	Overall size of 10" x 8" (254.0mm x 203.2mm) allows for 8.2" x 6.2" (208.3mm x 157.5mm) capacity.	375	502	897	1	10
RFG12X4Y	Overall size of 12" x 4" (304.8mm x 101.6mm) allows for 10.2" x 2.2" (259.1mm x 55.9mm) capacity.	160	214	383	1	10
RFG12X8Y	Overall size of 12" x 8" (304.8mm x 203.3mm) allows for 10.2" x 6.2" (259.1mm x 157.5mm) capacity.	469	626	1120	1	10
RFG3DY	Overall size of 4.8" (121.9mm) diameter allows for 2.7" (68.6mm) diameter capacity.	40	54	97	1	10
RFG5DY	Overall size of 6.8" (172.7mm) diameter allows for 4.7" (119.4mm) diameter capacity.	127	170	304	1	10

Product complies with Article 645 Section 5(D)(4) of the 2005 National Electrical Code.
Compatible with *NetRunner*™ and *PatchRunner*™ Cable Managers, and *PANDUIT*® *Net-Access*™ Cabinets to create a complete cable management system.
*Integral products include a flexible sub-grommet to prevent damage to cable from sharp edges of cut floor tile.

COOL BOOT® Raised Floor Air Sealing Grommet (continued)



Surface Mount Application



Integral Mount Application

Standard Racks

- Rack space identification allows quick and easy location of rack mount items
- UL listed for 1,000 lbs. load rating
- Double-sided #12-24 EIA universal mounting hole spacing
- 24 #12-24 mounting screws included
- Can be used with all *PANDUIT* cable management and patch panel products in addition to any industry standard 19" components
- Paint piercing washers included to electrically bond rack for simplified grounding
- For the complete grounding solution, see the *STRUCTUREDGROUND*™ Kits for Racks selection guide on pages M.12 – M.13



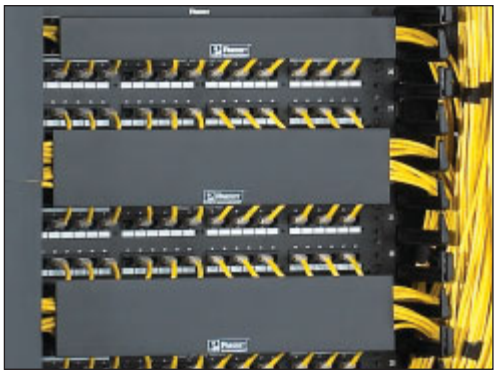
CMR19X84NU

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
CMR19X96	19" EIA rack, aluminum. Dimensions: 96.1"H x 20.3"W x 3.0"D (2441mm x 514mm x 76mm).	52	1	—
CMR19X84	19" EIA rack, aluminum. Dimensions: 84.0"H x 20.3"W x 3.0"D (2134mm x 514mm x 76mm).	45	1	—
CMR19X84NU	19" EIA rack, aluminum. Numbered up. Dimensions: 84.0"H x 20.3"W x 3.0"D (2134mm x 514mm x 76mm).	45	1	—
CMR19X47	19" EIA rack, aluminum. Dimensions: 48.0"H x 20.3"W x 3.0"D (1219mm x 514mm x 76mm).	24	1	—
S1224-C	#12-24 x .5" mounting screws.	—	100	1000

^One rack space = 1.75" (44.45mm).
All product color is black.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Horizontal Cable Management Rack Systems



- *PANDUIT® PATCHLINK™*, *NETMANAGER™*, and *OPEN-ACCESS™* Horizontal Cable Managers manage, protect, and showcase cables between patch panels on 19" EIA racks
- *PATCHLINK™* and *NETMANAGER™* Dual Hinged Covers conceal cable pathway and provide easy access without having to remove the door
- Pass-through holes allow front to rear cabling
- For comparison, multiply by 1.25 for a fill rate of 50%
- Capacities are based on a fill rate of 40% to accommodate proper cable routing techniques

PATCHLINK™ Horizontal Cable Manager



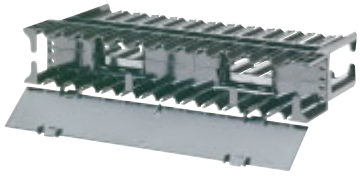
Cable Capacity Chart						
	Category 6 (.250")		Category 5e (.187")		Fiber (3mm)	
Part Number	Front	Back	Front	Back	Front	Back
WMP1E	48	48	72	72	192	192
WMPF1E	48	—	72	—	192	—
WMPFSE	16	—	24	—	72	—
WMPH2E	48	48	72	72	192	192
WMPHF2E	48	—	72	—	192	—
WMPLFSE	12	—	16	—	48	—
WMPLSE	12	12	16	16	48	48
WMPSE	16	16	24	24	72	72

NETMANAGER™ High Capacity Horizontal Cable Manager



Cable Capacity Chart										
	Category 6A (.298")		Category 6A (.289")		Category 6 (.250")		Category 5e (.187")		Fiber (3mm)	
Part Number	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back
NM1	18	18	18	18	24	24	48	48	120	120
NM2	54	54	54	54	78	78	138	138	348	348
NM3	96	96	102	102	132	132	246	246	618	618
NM4	144	144	144	144	192	192	348	348	882	882
NMF1	18	—	18	—	24	—	48	—	120	—
NMF2	54	—	54	—	78	—	138	—	348	—
NMF3	96	—	102	—	132	—	246	—	618	—
NMF4	144	—	144	—	192	—	348	—	882	—

NETMANAGER™ Horizontal Cable Manager



Cable Capacity Chart						
	Cat. 6 (.250")		Cat. 5e (.187")		Fiber (3mm)	
Part Number	Front	Back	Front	Back	Front	Back
NCMH2	48	48	72	72	192	192
NCMHF2	48	—	72	—	192	—
NCMHF1	16	—	24	—	72	—

OPEN-ACCESS™ Horizontal Cable Manager



Cable Capacity Chart						
	Cat. 6 (.250")		Cat. 5e (.187")		Fiber (3mm)	
Part Number	Front	Back	Front	Back	Front	Back
CMPH1	24	24	40	40	100	100
CMPH2	60	60	96	96	252	252
CMPHF1	24	—	40	—	100	—
CMPHHF1	32	—	52	—	132	—
CMPHF2	60	—	96	—	252	—
CMPHH2	96	—	192	—	504	—

All dimensions represent typical outer cable diameter in inches (mm).

PATCHLINK® Horizontal Cable Managers

- Lightweight plastic construction provides durability and easy installation
- Patented dual hinged cover allows cable access without removing cover
- Rounded edges on fingers protect cables from snags and damage to cable
- Flexible fingers allows easy installation and removal of cables
- Increased finger spacing provides larger area for high performance Category 6 cables
- Pass-through holes allow front to rear cabling
- Mount to standard 19" EIA racks and cabinets
- Covers, #12-24 and M6 mounting screws included



WMPSE



WMP1E



WMPH2E



WMPFSE



WMPLFSE



WMPF1E



WMPHF2E

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
19" Manager, Front and Rear, 1 RU			
WMPLSE	1.7"H x 19.0"W x 7.9"D (44mm x 483mm x 200mm).	1	1
WMPSE	1.7"H x 19.0"W x 8.9"D (44mm x 483mm x 226mm).	1	1
19" Manager, Front and Rear, 2 RU			
WMP1E	3.5"H x 19.0"W x 8.9"D (89mm x 483mm x 226mm).	2	1
WMPH2E	3.5"H x 20.2"W x 8.9"D (89mm x 513mm x 226mm). Includes extended front covers and two bend radius clips.	2	1
19" Manager, Front Only, 1 RU			
WMPFSE	1.7"H x 19.0"W x 3.7"D (44mm x 483mm x 94mm).	1	1
WMPLFSE	1.7"H x 19.0"W x 2.7"D (44mm x 483mm x 69mm).	1	1
19" Manager, Front Only, 2 RU			
WMPF1E	3.5"H x 19.0"W x 3.7"D (89mm x 483mm x 94mm).	2	1
WMPHF2E	3.5"H x 20.2"W x 3.7"D (89mm x 573mm x 94mm). Includes extended front covers and two bend radius clips.	2	1

^One rack space = 1.75" (44.45mm).
All product color is black.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

NETMANAGER™ High Capacity Horizontal Cable Managers

- Innovative inset fingers slope inward toward back of managers offering unobstructed access to network cabling for easier moves, adds, and changes
- Large front finger openings easily accommodate Category 6 and 10 GbE cables, speeding installation and reducing maintenance costs
- Rear cable management finger spacing utilizes open D-rings for greater accessibility
- Can be used to create large capacity horizontal pathways for routing cable
- Patented front and rear dual hinged cover allows cable access without removing cover
- Curved surfaces maintain cable bend radius
- Pass-through holes allow for front to rear cabling
- Built in cable retainers hold cable in place for easy moves, adds, and changes
- Mount to 19" EIA racks and cabinets
- Covers, #12-24 and M6 mounting screws included
- Design fits flush to the front of the *NETRUNNER*® High Capacity WMPVHCF45E and WMPVHC45E Vertical Managers



NM2



NMF2



NMF3



NMF4

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
19" High Capacity Manager, Front and Rear			
NM1	1.7"H x 19.0"W x 13.1"D (44mm x 482mm x 332mm).	1	1
NM2	3.5"H x 19.0"W x 13.1"D (88mm x 482mm x 332mm).	2	1
NM3	5.2"H x 19.0"W x 13.1"D (133mm x 482mm x 332mm).	3	1
NM4	7.0"H x 19.0"W x 13.1"D (177mm x 482mm x 332mm).	4	1
19" High Capacity Manager, Front Only			
NMF1	1.7"H x 19.0"W x 6.2"D (44mm x 482mm x 157mm).	1	1
NMF2	3.5"H x 19.0"W x 6.2"D (88mm x 482mm x 157mm).	2	1
NMF3	5.2"H x 19.0"W x 6.2"D (133mm x 482mm x 157mm).	3	1
NMF4	7.0"H x 19.0"W x 6.2"D (177mm x 482mm x 157mm).	4	1

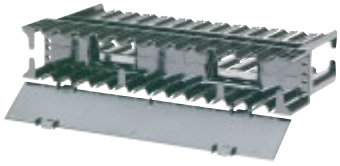
^One rack space = 1.75" (44.45mm)
All product color is black.

NETMANAGER® Horizontal Cable Managers

- Patented design
- Lightweight plastic construction provides durability and easy installation
- Removable front cover hinges 180° up or down to allow access without removing cover
- Curved surfaces maintain cable bend radius
- Pass-through holes allow for front to rear cabling
- Built in cable retainers hold cable in place for easy moves, adds, and changes
- Mount to 19" EIA racks and cabinets
- Covers, #12-24 and M6 mounting screws included



NCMHF1



NCMH2

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
NCMHF1	1.7"H x 19.0"W x 3.7"D (44mm x 483mm x 95mm).	1	1
NCMHF2	3.5"H x 19.0"W x 3.7"D (88mm x 483mm x 95mm).	2	1
NCMH2	3.5"H x 19.0"W x 9.8"D (88mm x 483mm x 248mm). Snap-on rear cover.	2	1

^One rack space = 1.75" (44.45mm).
All product color is black.

High Capacity Horizontal Cable Managers

- Manage cables on switches with vertical cards
- Curved cable management fingers support cables as they transition to the vertical pathway
- Can be used to create cable pathways for routing cable
- Steel hinged cover provides easy access to pathway
- Pass-through holes on top and back of manager
- Mount to 19" EIA racks and cabinets
- Mounting hardware included



NCMHAEF2



NCMHAEF4

Part Number	Part Description	No. of Rack Spaces^	Cable Capacity				
			Cat. 6A (.298")	Cat. 6A (.289")	Cat. 6 (.250")	Cat. 5e (.187")	Fiber (3mm)
NCMHAEF2	Horizontal manager with hinged cover. Dimensions 3.5"H x 19.0"W x 8.0"D (88mm x 483mm x 204mm)	2	77	91	108	144	432
NCMHAEF4	Horizontal manager with hinged cover. Dimensions 7.0"H x 19.0"W x 8.0"D (177mm x 483mm x 204mm)	4	154	182	216	288	864

One rack space = 1.75" (44.45mm).
All product color is black.
All dimensions represent typical outer cable diameter in inches (mm).

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

OPEN-ACCESS™ Horizontal Cable Managers

- D-ring managers provide an open and efficient way to manage cable
- Patented D-ring design provides flexibility for easy moves, adds, and changes
- Optional snap-on cover
- Pass-through holes allow front to rear cabling
- Mount to 19" EIA racks and cabinets
- Hardware included



CMPH1



CMPH2



CMPHF1



CMPHHF1



CMPHF2



CMPHH2

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
19" Manager, Front and Rear, 1 RU			
CMPH1	D-rings installed on panels. 1.7"H x 19.0"W x 8.6"D (44mm x 483mm x 218mm).	1	1
19" Manager, Front and Rear, 2 RU			
CMPH2	D-rings installed on panel. 3.5"H x 19.0"W x 8.6"D (88mm x 483mm x 218mm).	2	1
19" Manager, Front Only, 1 RU			
CMPHF1	D-rings installed on panel. 1.7"H x 19.0"W x 3.4"D (44mm x 483mm x 87mm).	1	1
CMPHHF1	D-rings installed on panel. 1.7"H x 19.0"W x 5.7"D (44mm x 483mm x 144mm).	1	1
19" Manager, Front Only, 2 RU			
CMPHF2	D-rings installed on panel. 3.5"H x 19.0"W x 3.4"D (88mm x 483mm x 87mm).	2	1
CMPHH2	D-rings installed on panel. 3.5"H x 19.0"W x 5.7"D (88mm x 483mm x 144mm).	2	1
Optional Covers			
CMPH1C	Snap-on cover for 1 RU D-ring panels. Width 19.4" (492mm).	1	1
CMPH2C	Snap-on cover for 2 RU D-ring panels. Width 19.4" (492mm).	2	1

^One rack space = 1.75" (44.45mm).
All product color is black.

Vertical D-Rings

- Patented cable manager ring
- Standard EIA hole spacing allows product to be mounted to any standard rack
- Flexible material allows arm to rotate so entire cable bundle can be inserted and removed
- Rounded edges prevent damage to cable insulation
- 1/4" (M6) mounting hole allows for a variety of screws to secure the D-ring to a surface
- Create a structured pathway and allows for open access
- Material: Black Flame Retardant Polycarbonate



CMVDR1



CMVDR1S



CMVDR2



CMVDR2S



CMVDRC

Part Number	Part Description	Cable Capacity			Std. Pkg. Qty.
		Cat. 6A (.289")	Cat. 6 (.250")	Cat. 5e (.187")	
CMVDR1	Vertical D-ring. Outside dimensions 5.72"L x 2.05"W (145.3mm x 52.1mm).	43	96	48	1
CMVDR1S	Vertical D-ring. Outside dimensions 3.26"L x 2.05"W (82.8mm x 52.1mm).	21	32	52	1
CMVDR2	Vertical D-ring. Outside dimensions 5.72"L x 3.30"W (145.3mm x 83.8mm).	87	96	192	1
CMVDR2S	Vertical D-ring. Outside dimensions 3.26"L x 3.30"W (82.8mm x 83.8mm).	43	48	96	1
CMVDRC	Center mounted vertical D-ring for routing cables between two adjacent racks. Requires 8.25" spacing between the center lines of the adjacent rack's mounting holes. Outside dimensions 5.66"L x 8.75"W (143.8mm x 222.3mm).	183	200	400	1

Cable Routing Troughs

- Provide pathways to route cables in a rack line-up



CMLT19



CMUT19



CMT4

Part Number	Part Description	Cable Capacity					Std. Pkg. Qty.
		Cat. 6A (.298")	Cat. 6A (.289")	Cat. 6 (.250")	Cat. 5e (.187")	Fiber (3mm)	
CMLT19	4 RU lower trough with 1.3" bend radius mounts to the bottom of a standard 19" EIA rack. Dimensions: 8.0"H x 19.0"W x 4.5"D (203mm x 483mm x 114mm).	85	106	125	224	564	1
CMUT19	2 RU upper trough with 1.3" bend radius mounts to the top of a standard 19" EIA rack. Dimensions: 3.5."H x 19.0"W x 4.5"D (89mm x 483mm x 114mm).	57	70	83	148	373	1
CMT4	4 RU cable routing trough. Dimensions: 6.9"H x 19.0"W x 4.5"D (176mm x 483mm x 114mm).	152	12488	223	399	1002	1

One rack space = 1.75" (44.45mm).
All product color is black.
All dimensions represent typical outer cable diameter in inches (mm).

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Rack Mount Shelves

- Load ratings up to 250 lbs. refer to part descriptions for specific load ratings



SRM19FM2



SRM19CMV3



SRM19X18A1

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
SRM19FM1	19" front mount shelf, steel. Dimensions: 1.7"H x 19.0"W x 15.2"D (44mm x 483mm x 385mm). Load rating 30 lbs.	1	1
SRM19FM2	19" front mount shelf, steel. Dimensions: 3.5"H x 19.0"W x 15.2"D (88mm x 483mm x 385mm). Load rating 50 lbs.	2	1
SRM19CMV3	19" cantilevered shelf, vented aluminum. Includes two-piece shelf that mounts to front and back of EIA racks. Dimensions: 5.2"H x 19.2"W x 12.5"D (133mm x 489mm x 316mm). Load rating 200 lbs.	3	1
SRM19CM3	19" cantilevered shelf, aluminum. Includes two-piece shelf that mounts to front and back of EIA racks. Dimensions: 5.2"H x 19.2"W x 12.5"D (133mm x 489mm x 316mm). Load rating 200 lbs.	3	1
SRM19X18A1	19" adjustable mount shelf, steel, mounts to front and back of EIA racks. Dimensions: 1.8"H x 19.0"W x 18.0"D (44mm x 483mm x 457mm). Load rating 250 lbs.	1	1
SRM19X25A1	19" adjustable mount shelf, steel, mounts to front and back of EIA racks. Dimensions: 1.8"H x 19.0"W x 25.0"D (44mm x 483mm x 635mm). Load rating 250 lbs.	1	1

^One rack space = 1.75" (44.45mm).
All product color is black.

Panel Extender Brackets

- Allow for mounting 19" product on 23" standard EIA racks or cabinets
- Offset bracket design maintains flush mounting of panels
- Mounting hardware included



PEB1



PEB2

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
PEB1	Converts 19" horizontal panels to 23" panels.	1	1	10
PEB2	Converts 19" horizontal panels to 23" panels.	2	1	10

^One rack space = 1.75". (44.45mm).
All product color is black.

Rack Mount Cable Management Accessories

- Bend radius control fingers support cables as they transition to the vertical pathway
- Finger spacing aligns with rack units
- Attach to patch panels or equipment mounting screws
- Lightweight plastic construction provides durability and easy installation



CMBRC1



CMBRC5E

Part Number	Part Description	No. of Rack Spaces^	Std. Ctn. Qty.
CMBRC1	Kit of two bend radius control fingers; for use with patch panels. Maintains 1/2" bend radius control. Dimensions: 1.7"H x .8" W x 3.0"D (44mm x 19mm x 77mm).	1	10
CMBRC1E	Kit of two bend radius control fingers, for use with patch panels. Maintains 1/2" bend radius control. Dimensions: 1.7"H x 1.0"W x 5.1"D (44mm x 25mm x 129mm).	1	10
CMBRC5	One-piece unit with five bend radius control fingers; for use with active equipment. Maintains 1/4" bend radius control. Dimensions: 8.7"H x 1.0"W x 3.3"D (222mm x 26mm x 84mm).	5	10
CMBRC5E	One-piece unit with five bend radius control fingers; for use with active equipment. Maintains 1/4" bend radius control. Dimensions: 8.7"H x 1.0"W x 5.1"D (222mm x 26mm x 129mm).	5	10

^One rack space = 1.75" (44.45mm).
All product color is black.

Hinged Wall Brackets

- Mount to wall or standard EIA 19" rack
- Cable tie slots
- Standard 19" EIA hole spacing
- Panel rotates from one side for easy access to cabling
- Include write-on labeling area
- Accept 19" patch panels, horizontal managers, and equipment



WBH1



WBH2



WBH3



WBH4



WBH4E

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
6" Deep Wall Brackets			
WBH1	Dimensions: 1.8"H x 20.2"W x 6.3"D (44mm x 513mm x 159mm). Load rating 10 lbs.	1	1
WBH2	Dimensions: 3.5"H x 20.2"W x 6.3"D (89mm x 513mm x 159mm). Load rating 20 lbs.	2	1
WBH3	Dimensions: 5.3"H x 20.2"W x 6.3"D (133mm x 513mm x 159mm). Load rating 30 lbs.	3	1
WBH4	Dimensions: 7.0"H x 20.2"W x 6.3"D (178mm x 513mm x 159mm). Load rating 40 lbs.	4	1
15" Deep Wall Brackets			
WBH2E	Dimensions: 3.5"H x 20.4"W x 15.8"D (89mm x 519mm x 402mm). Load rating 20 lbs.	2	1
WBH4E	Dimensions: 7.0"H x 20.4"W x 15.8"D (177mm x 519mm x 402mm). Load rating 40 lbs.	4	1
WBH6E	Dimensions: 10.5"H x 20.4"W x 15.8"D (267mm x 519mm x 402mm). Load rating 60 lbs.	6	1

^One rack space = 1.75" (44.45mm).
All product color is black.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Rack Filler Panels

- Reserve rack space for future use
- Direct airflow in cabinet applications
- Mount to standard EIA 19" racks or cabinets
- #12-24 and M6 mounting screws included


DPFP1


DPFP2


DPFP4


DPFP8

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
DPFP1	Dimensions: 1.8"H x 19.0"W (44mm x 483mm).	1	1	10
DPFP2	Dimensions: 3.5"H x 19.0"W (89mm x 483mm).	2	1	10
DPFP4	Dimensions: 7.0"H x 19.0"W (178mm x 483mm).	4	1	10
DPFP8	Dimensions: 14.0"H x 19.0"W (355mm x 483mm).	8	1	10

^One rack space = 1.75" (44.45mm).
All product color is black.

Angled Panel Accessories

- Aesthetic design provides a clean and consistent look when used with *PANDUIT* angled patch panels
- Support warm aisle/cold aisle methodology by sealing in cool air and not allowing it to escape, promoting proper airflow and cooling
- Protect exposed connectors from intrusion of debris or accidental disconnection


CPAF1BLY


CPAF2BLY


CPATCBL

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
CPAF1BLY	Covers one open rack space in standard EIA 19" rack.	1	1	10
CPAF2BLY	Covers two open rack spaces in standard EIA 19" rack.	2	1	10
CPATCBL	Transitional cover for angled patch panels that occupies zero rack space.	0	1	10

^One rack space = 1.75" (44.45mm).
All product color is black.

IN-CABINET Vertical Cable Managers

- For managing cable within cabinets 27" or wider
- Attach to equipment mounting rails
- Two mounting bracket options to facilitate mounting to various cabinet configurations
- Snap-on covers included



Front Mount Bracket



Side Mount Bracket



CWMPV3340

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
Side Mount – Front Only			
CWMPV3440	Duct with side mount bracket, cage nut, and screws. Dimensions: 71.9"H x 3.5"W x 4.3"D (1825mm x 88mm x 109mm). Capacity: 96 cables .187 dia.	40	1
CWMPV2440	Duct with side mount bracket, cage nut, and screws. Dimensions: 71.9"H x 2.5"W x 4.3"D (1825mm x 63mm x 109mm). Capacity: 60 cables .187 dia.	40	1
Front Mount – Front Only			
CWMPV2340	Duct with front mount bracket, cage nut, and screws. Dimensions: 70.0"H x 3.7"W x 3.3"D (1778mm x 94mm x 83mm). Capacity: 48 cables .187 dia.	40	1
CWMPV3340	Duct with front mount bracket, cage nut, and screws. Dimensions: 70.0"H x 4.7"W x 3.3"D (1778mm x 119mm x 83mm). Capacity: 72 cables .187 dia.	40	1

^One rack space = 1.75" (44.45mm).
All product color is black.

Cable Capacity Chart

Part Number	Cat 6 (.250")	Cat 5e (.187")	Fiber (3mm)
CWMPV3440	107	191	396
CWMPV2440	76	136	283
CWMPV2340	87	155	321
CWMPV3340	110	197	408

Communication Cable Management Kit for Cabinets

- Kit of cable management accessories specifically designed for use in a network cabinet or enclosure



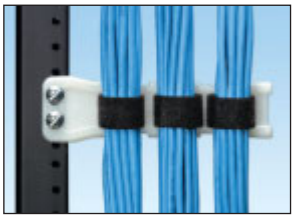
Part Number	Part Description	Std. Pkg. Qty.*	Std. Ctn. Qty.
CCMKIT1	Kit includes the following: 1 roll (15' (4.6m) length) .33" (8.4mm) *TAK-TY®* Cable Ties 24 nylon cable ties 12 adhesive backed cable tie mounts 6 push style cable tie mounts 4 vertical wire saddles 8 flat *PAN-POST®* Standoffs for use with std. nylon cable ties	1	100
CCMKIT2	Kit includes the following: 1 roll (15' (4.6m) length) .75" (19.1mm) *TAK-TY®* Cable Ties 12 nylon cable ties 6 adhesive backed cable tie mounts 6 adhesive backed mounts for .75" (19.1mm) *TAK-TY®* Cable Ties 6 screw mounts for .75" (19.1mm) *TAK-TY®* Cable Ties 4 vertical wire saddles 6 flat *PAN-POST®* Standoffs for use with .75" (19.1mm) *TAK-TY®* Cable Ties	1	100

*Order the number of kits required.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Flat *PAN-POST*™ Standoffs

- Standard EIA hole spacing allows product to be mounted with user supplied screws up to 1/4" (M6) diameter
- Organize cables in standard cabinets and racks
- Use where space is limited
- For indoor use only
- Material: Natural Nylon 6.6



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Flat *PAN-POST*™ Standoff for Nylon Cable Ties			
PPF2S-S25-V	Nylon 6.6 flat *PAN-POST*™ Standoff. Use with miniature, intermediate, and standard cross section cable ties. Dimensions 5.42"L x 1.50"H x .19"W (137.7mm x 38.1mm x 4.8mm).	5	100
PPF2S-S25-V69	Flame retardant nylon 6.6 flat *PAN-POST*™ Standoff. Use with miniature, intermediate, and standard cross section cable ties. Material meets UL 94V-0 specifications. Dimensions 5.42"L x 1.50"H x .19"W (137.7mm x 38.1mm x 4.8mm).	5	100
Flat *PAN-POST*™ Standoff for *TAK-TY*® Hook & Loop Cable Ties			
PPF2SV-S25-V	Nylon 6.6 flat *PAN-POST*™ Standoff. Use with *TAK-TY*® Hook & Loop Cable Ties. Dimensions 5.60"L x 1.62"H x .19"W (142.2mm x 41.3mm x 4.8mm).	5	100
PPF2SV-S25-V69	Flame retardant nylon 6.6 flat *PAN-POST*™ Standoff. Use with *TAK-TY*® Hook & Loop Cable Ties. Material meets UL 94V-0 specifications. Dimensions 5.60"L x 1.62"H x .19"W (142.2mm x 41.3mm x 4.8mm).	5	100

PAN-POST® Standoffs

- Support cable bundles above or away from surface
- For indoor use only
- Material: Natural Nylon 6.6



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PP1S-S10-X	*PAN-POST*™ Standoff, mounting method #10/M5 screw, 1.06"L x .72"W x 1.97"H (26.9mm x 18.3mm x 50.0mm). Used with cable ties M,I,S.	10	100
PP1S-S12-X	*PAN-POST*™ Standoff, mounting method #12/M5.5 screw, 1.06"L x .72"W x 1.97"H (26.9mm x 18.3mm x 50.0mm). Used with cable ties M,I,S.	10	100
PP2S-S10-X	*PAN-POST*™ Standoff, mounting method #10/M5 screw, 1.06"L x .72"W x 4.60"H (26.9mm x 18.3mm x 116.9mm). Used with cable ties M,I,S.	10	100
PP2S-S12-X	*PAN-POST*™ Standoff, mounting method #12/M5.5 screw, 1.06"L x .72"W x 4.60"H (26.9mm x 18.3mm x 116.9mm). Used with cable ties M,I,S.	10	100

Cable tie cross section sizes: M = Miniature, I = Intermediate, S = Standard.

Bundle Retainers

- Support cable in vertical or horizontal configurations
- Spring fingers with large lead-in facilitates insertion of cable bundles
- Adhesive backed and screw applied versions available
- Material: Black Nylon 6.6



BR2-1.3

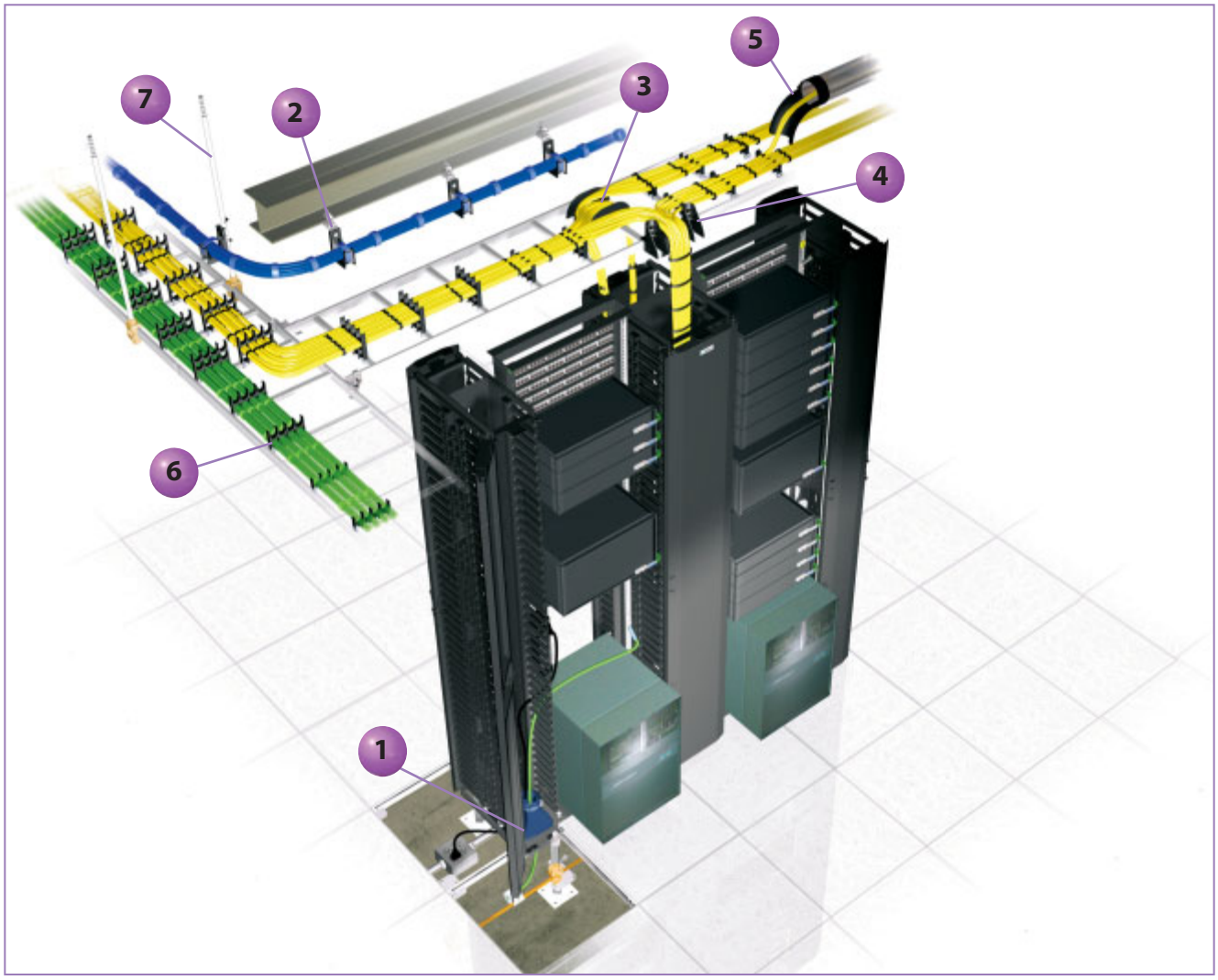
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
BR2-1.3	Standard EIA hole spacing for mounting. Maximum bundle capacity: 2.00" (50.8mm).	1	10
BR2-1.3-A	Adhesive base and standard EIA hole spacing provides mounting options. Maximum bundle capacity: 2.00" (50.8mm).	1	10

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Cable Management Accessories Roadmap

- Organize cable in a variety of applications providing a standards compliant installation to reduce stress on cable while allowing for easier moves, adds, and changes.



1 *Cool Boot*™ Raised Floor Air Sealing Grommet (page L.25)



2 *J-Pro*™ Cable Support System (pages L.40 – L.42)



3 Double Waterfall Accessory (page L.46)



4 Waterfall Accessories (page L.45)





5 Conduit Waterfall (page L.45)



6 Stackable Cable Rack Spacers (page L.47)



7 Threaded Rod Cover (page L.46)



J-PRO™ Cable Support System

- Patent pending design provides complete horizontal and vertical 1" (25.4mm) bend radius control that helps prevent degradation of cable performance
- UL 2043 and CAN/ULC S102.2 approved and suitable for use in air handling spaces
- Pre-riveted assemblies allow for attachment to walls, ceilings, beams, threaded rods, drop wires and underfloor supports to meet requirements of a variety of applications
- Wide cable support base prevents pinch points that could cause damage to cables
- Cable tie channel allows user to easily install 3/4" (19.1mm) TAK-TY® Cable Ties to retain cable bundle
- Durable non-metallic J Hook materials provide the ability to manage and support a large number of cables
- Material: Black Nylon 6.6 J Hook with metal attachments


JP2W-L20


JP2WP-L20


JP2CM-L20


JP2DW-L20

Part Number	Part Description	Max. Bundle Capacity		Max. Cable Capacity			Max. Static Load		Std. Pkg. Qty.
		In.	mm	Cat. 6A (.289")	Cat. 6 (.250")	Cat. 5e (.187")	Lbs.	kg.	
Wall Mount									
JP75W-L20^	J Hook for wall mount applications. One 1/4" (M6) mounting hole for user supplied screw.	.75	19.0	4	6	11	15	6.81	50
JP131W-L20		1.31	33.3	13	17	31	25	11.3	50
JP2W-L20^‡*		2.00	50.8	23	31	56	30	13.61	50
JP4W-X20^‡*		4.00	101.6	95	127	228	100	45.37	10
Wall Mount with Bracket									
JP75WP-L20^	J Hook for powder actuated installation on walls. One 5/32" (M4) mounting hole for user supplied fasteners.	.75	19.0	4	6	11	15	6.81	50
JP131WP-L20		1.31	33.3	13	17	31	25	11.3	50
JP2WP-L20^		2.00	50.8	23	31	56	30	13.61	50
JP4WP-X20		4.00	101.6	95	127	228	100	45.37	10
Ceiling Mount									
JP75CM-L20^	J Hook with ceiling mount bracket that has one 3/16" (M5), 1/4" (M6) and 3/8" (M10) mounting hole.	.75	19.0	4	6	11	15	6.81	50
JP131CM-L20		1.31	33.3	13	17	31	25	11.3	50
JP2CM-L20^		2.00	50.8	23	31	56	30	13.61	50
JP4CM-X20		4.00	101.6	95	127	228	100	45.37	10
Drop Wire and Threaded Rod Clip									
JP75DW-L20^	J Hook with clip for use with #12 wire, threaded rod up to 1/4" (6.4mm) in diameter, or 1/8" – 1/4" (3.2mm – 6.4mm) thick flanges.	.75	19.0	4	6	11	10	4.53	50
JP131DW-L20		1.31	33.3	13	17	31	10	4.53	50
JP2DW-L20^‡		2.00	50.8	23	31	56	10	4.53	50

Suitable for use in air handling spaces in accordance with Sec. 300-22(c) and (d) of the National Electrical Code. JP4 family of parts suitable for use in single unit configurations. Listed in accordance with CAN/ULC S102.2 when mounted as single units or in pairs. Minimum spacing of 4' (1220mm) required between mount points. (Flame spread rating = 0, Smoke developed classification = 30).

^Available in red. Replace – L20 with – L2 or – X20 with – X2 in part number suffix.

‡Available in blue. Replace – L20 with – L6 or – X20 with – X6 in part number suffix.

*Available in natural (white). Replace – L20 with – L or – X20 with – X in part number suffix.

All dimensions represent typical outer cable diameter in inches (mm).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

c UL us LISTED J-PRO™ Cable Support System (continued)



JP2SBC50-L20



JP2SBC50R-L20



JP2SBC87-L20



JP2SBC87R-L20



JP2HBC25R-L20
JP2HBC50R-L20
JP2HBC75R-L20

Part Number	Part Description	Max. Bundle Capacity In.	Max. Bundle Capacity mm	Max. Cable Capacity Cat. 6A (.289")	Max. Cable Capacity Cat. 6 (.250")	Max. Cable Capacity Cat. 5e (.187")	Max. Static Load Lbs.	Max. Static Load kg.	Std. Pkg. Qty.
Screw-On Beam Clamps									
JP75SBC50-L20	J Hook with screw-on beam clamp for use with flanges up to 1/2" (12.7mm) thick.	.75	19.0	4	6	11	15	6.81	50
JP131SBC50-L20		1.31	33.3	13	17	31	25	11.3	50
JP2SBC50-L20		2.00	50.8	23	31	56	30	13.61	50
JP4SBC50-X20		4.00	101.6	95	127	228	25	11.3	10
JP75SBC50R-L20^	J Hook with screw-on beam clamp for use with flanges up to 1/2" (12.7mm) thick. Rotates 360 degrees.	.75	19.0	4	6	11	15	6.81	50
JP131SBC50R-L20		1.31	33.3	13	17	31	25	11.3	50
JP2SBC50R-L20^*		2.00	50.8	23	31	56	30	13.61	50
JP4SBC50R-X20		4.00	101.6	95	127	228	100	45.37	10
JP75SBC87-L20	J Hook with screw-on beam clamp for use with flanges up to 3/4" (19.1mm) thick.	.75	19.0	4	6	11	15	6.81	50
JP131SBC87-L20		1.31	33.3	13	17	31	25	11.3	50
JP2SBC87-L20		2.00	50.8	23	31	56	30	13.61	50
JP4SBC87-X20		4.00	101.6	95	127	228	100	45.37	10
JP75SBC87R-L20	J Hook with screw-on beam clamp for use with flanges up to 3/4" (19.1mm) thick. Rotates 360 degrees.	.75	19.0	4	6	11	15	6.81	50
JP131SBC87R-L20		1.31	33.3	13	17	31	25	11.3	50
JP2SBC87R-L20		2.00	50.8	23	31	56	30	13.61	50
JP4SBC87R-X20		4.00	101.6	95	127	228	100	45.37	10
Hammer-On Beam Clamps									
JP75HBC25R-L20	J Hook with hammer-on beam clamp for use with flanges 1/8" – 1/4" (3.2mm – 6.4mm) thick. Rotates 360 degrees.	.75	19.0	4	6	11	15	6.81	50
JP131HBC25R-L20		1.31	33.3	13	17	31	25	11.3	50
JP2HBC25R-L20		2.00	50.8	23	31	56	30	13.61	50
JP4HBC25R-X20		4.00	101.6	95	127	228	100	45.37	10
JP75HBC50R-L20	J Hook with hammer-on beam clamp for use with flanges 5/16" – 1/2" (7.9mm – 12.7mm) thick. Rotates 360 degrees.	.75	19.0	4	6	11	15	6.81	50
JP131HBC50R-L20		1.31	33.3	13	17	31	25	11.3	50
JP2HBC50R-L20		2.00	50.8	23	31	56	30	13.61	50
JP4HBC50R-X20		4.00	101.6	95	127	228	100	45.37	10
JP75HBC75R-L20	J Hook with hammer-on beam clamp for use with flanges 9/16" – 3/4" (14.3mm – 19.1mm) thick. Rotates 360 degrees.	.75	19.0	4	6	11	15	6.81	50
JP131HBC75R-L20		1.31	33.3	13	17	31	25	11.3	50
JP2HBC75R-L20		2.00	50.8	23	31	56	30	13.61	50
JP4HBC75R-X20		4.00	101.6	95	127	228	100	45.37	10

Suitable for use in air handling spaces in accordance with Sec. 300-22(c) and (d) of the National Electrical Code. JP4 family of parts suitable for use in single unit configurations. Listed in accordance with CAN/ULC S102.2 when mounted as single units or in pairs. Minimum spacing of 4' (1220mm) required between mount points. (Flame spread rating = 0, Smoke developed classification = 30).

^Available in red. Replace – L20 with – L2 or – X20 with – X2 in part number suffix.

‡Available in blue. Replace – L20 with – L6 or – X20 with – X6 in part number suffix.

*Available in natural (white). Replace – L20 with – L or – X20 with – X in part number suffix.

All dimensions represent typical outer cable diameter in inches (mm).

Table continues on page L.42

c UL us LISTED J-PRO™ Cable Support System (continued)


JP2ZP-L20


JP2CP-L20


JP2UF100-L20

Part Number	Part Description	Max. Bundle Capacity		Max. Cable Capacity			Max. Static Load		Std. Pkg. Qty.
		In.	mm	Cat. 6A (.289")	Cat. 6 (.250")	Cat. 5e (.187")	Lbs.	kg.	
Z-Purlin Clips									
JP75ZP-L20	J Hook with z-purlin clip for use with angled flanges up to 1/4" (6.4mm) thick.	.75	19.0	4	6	11	15	6.81	50
JP131ZP-L20		1.31	33.3	13	17	31	25	11.3	50
JP2ZP-L20		2.00	50.8	23	31	56	30	13.61	50
JP4ZP-X20		4.00	101.6	95	127	228	100	45.37	10
C-Purlin Clips									
JP75CP-L20	J Hook with c-purlin clip for use with vertical flanges up to 1/4" (6.4mm) thick.	.75	19.0	4	6	11	15	6.81	50
JP131CP-L20		1.31	33.3	13	17	31	25	11.3	50
JP2CP-L20		2.00	50.8	23	31	56	30	13.61	50
JP4CP-X20		4.00	101.6	95	127	228	100	45.37	10
Underfloor Pedestal Support Clamp									
JP75UF100-L20	J Hook with underfloor pedestal support clamp for use with pedestal support up to 1" (25.4mm) diameter.	.75	19.0	4	6	11	15	6.81	50
JP131UF100-L20		1.31	33.3	13	17	31	25	11.3	50
JP2UF100-L20		2.00	50.8	23	31	56	30	13.61	50
JP4UF100-X20		4.00	101.6	95	127	228	100	45.37	10

Suitable for use in air handling spaces in accordance with Sec. 300-22(c) and (d) of the National Electrical Code. JP4 family of parts suitable for use in single unit configurations. Listed in accordance with CAN/ULC S102.2 when mounted as single units or in pairs. Minimum spacing of 4' (1220mm) required between mount points. (Flame spread rating = 0, Smoke developed classification = 30).
^Available in red. Replace – L20 with – L2 or – X20 with – X2 in part number suffix.
‡Available in blue. Replace – L20 with – L6 or – X20 with – X6 in part number suffix.
*Available in natural (white). Replace – L20 with – L or – X20 with – X in part number suffix.
All dimensions represent typical outer cable diameter in inches (mm).

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

c UL us LISTED *J-MOD*® Cable Support System

- Complete horizontal and vertical 1" (25.4mm) bend radius control
- Manufactured from materials that meet UL 2043 and are suitable for use in air handling spaces
- Brackets allow for attachment to ceilings, beams, threaded rods and drop wires to meet requirements of a variety of applications
- Cables do not come in contact with metal
- Modular design allows flexibility to assemble system in multiple configurations
- Unique chaining bracket design creates a strong metal backbone and allows expansion of the system without disturbance of an existing installation

Typical Installation Instructions Using Threaded Rod Bracket and Chaining Bracket



Align snap lock attachment of J Hook with holes in chosen bracket and snap J Hook into place



Align chaining bracket under the assembly



Slide chaining bracket between J Hook and the metal bracket until it snaps



Pull down to fully engage



Attach J Hooks as explained in first-level installation above



Final assembly is a second-level installation consisting of one threaded rod bracket, one chaining bracket, and two J Hooks for clarity

J-MOD® Cable Support System (continued)


JMJH2W-X20


JMJH2-X20


JMCB-X


JMCMB25-1-X


JMCMB25-3-X


JMDWB-1-X


JMDWB-3-X


JMTRB38-1-X


JMTRB38-3-X


JMSBCB87-1-X


JMSBCB87-3-X

Part Number	Part Description	Material*	Max. Static Load Lbs.	Max. Static Load kg.	Std. Pkg. Qty.	Std. Ctn. Qty.
J Hook with Maximum 2" Bundle Capacity						
JMJH2W-X20	J Hook for wall mount applications only. Two 1/4" (M6) mounting holes for user supplied screws.	Nylon 6.6	30	13.61	10	50
JMJH2-X20	J Hook with snap lock attachments for use with all brackets listed below.	Nylon 6.6	30	13.61	10	50
Chaining Bracket						
JMCB-X	Chaining bracket to extend *J-MOD*® capacity one level. Capacity: three levels maximum. For use with all single-level mounting brackets listed below.	Zinc Plated Steel	120	54.43	10	50
Ceiling Mount Brackets						
JMCMB25-1-X	Single-level ceiling mount bracket with one 1/4" (M6) mounting hole.	Galvanized Steel	180	81.65	10	50
JMCMB25-3-X**	Three-level ceiling mount bracket with one 1/4" (M6) mounting hole. Maximum capacity of six J Hooks.	Galvanized Steel	180	81.65	10	50
Drop Wire Brackets						
JMDWB-1-X	Single-level drop wire bracket. Attaches to #12 wire or 1/4" (6.4mm) plain rod. Maximum capacity of one J Hook per level.	Galvanized Steel with Metal Attachments	20	9.07	10	50
JMDWB-3-X**	Three-level drop wire bracket. Attaches to #12 wire or 1/4" (6.4mm) plain rod. Maximum capacity of one J Hook for each of three levels.	Galvanized Steel with Metal Attachments	40	18.14	10	50
Threaded Rod Brackets						
JMTRB38-1-X	Single-level threaded rod bracket. Accepts 1/4" – 3/8" (6.4mm – 9.5mm) threaded rod.	Galvanized Steel with Metal Attachments	180	81.65	10	50
JMTRB38-3-X**	Three-level threaded rod bracket. Accepts 1/4" – 3/8" (6.4mm – 9.5mm) threaded rod. Maximum capacity of six J Hooks.	Galvanized Steel with Metal Attachments	180	81.65	10	50
Screw-On Beam Clamp Brackets						
JMSBCB87-1-X	Single-level screw-on beam clamp bracket for use with flanges up to 3/4" (19.1mm) thick.	Galvanized Steel with Metal Attachments	180	81.65	10	50
JMSBCB87-3-X**	Three-level screw-on beam clamp bracket for use with flanges up to 3/4" (19.1mm) thick. Maximum capacity of six J Hooks.	Galvanized Steel with Metal Attachments	180	81.65	10	50

*Suitable for use in air handling spaces and listed in accordance with UL 2043 and CAN/ULC S102.2 when mounted as single units or in pairs. Maximum spacing of 4' (1220mm) required between mount points. (Flame Spread Rating = 0, Smoke Developed Classification = 30). Maximum Cable Capacity: Category 5e = 56, Category 6 = 31, Category 6A = 23.
**Not for use with chaining brackets.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

c UL us Conduit Waterfall

- Helps prevent pinch points and over bending that could cause damage to cable
- Suitable for use in air handling spaces per UL 2043
- UL listed per UL 1565
- Able to manage and support a large capacity of cables
- Easy and fast to install reducing labor cost
- Unique patent pending design allows for use in both new and retrofit applications
- Allows user to install 3/4" (19.1mm) *TAK-TY®* Cable Ties to provide a method to retain and manage the cable bundle
- Material: Black Glass-Filled PBT which meets UL 94V-0 specifications



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CWF400	Provides bend radius control for cables entering/exiting 4" (101.6mm) EMT conduit. Secure to conduit without tools utilizing integral thumb screw and captive nut.	1	10

Waterfall Accessories

- Patented bend radius control product
- Product available as a kit (includes base, two wings, and cable ties) or purchased separately
- Easy to install waterfall kit maintains bend radius control in both vertical and horizontal directions to provide a TIA/EIA-568-B compliant installation
- Base attaches to either the rung or stringer on most standard ladder racks for a variety of installations/configurations
- Modular components allow user to custom configure each location where cable management is required
- Material: Black Glass-Filled Nylon 6.6 which meets UL 94V-0 specifications



CMW-KIT



CMWB



CMWW

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CMW-KIT*	Cable management waterfall kit. Provides bend radius control when transferring cables from standard ladder rack. Kit includes CMWB, two CMWW, and cable ties.	1	10
CMWB*	Cable management waterfall base. Used to maintain 1.75" (44.5mm) bend radius control vertically when transferring cable off of ladder rack. Mounts to ladder rack rung or stringer with standard cross section cable ties (included).	1	10
CMWW*	Cable management waterfall wing. Used in conjunction with CMWB to maintain 1.00" (25.4mm) bend radius control horizontally when transferring cable off ladder rack.	1	10

*Available in natural (white). Add 10 to part number suffix. For example: CMW-KIT10.

Double Waterfall Accessory

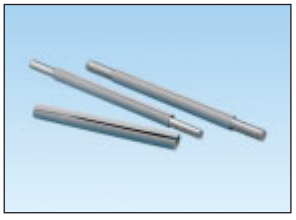
- Double waterfall base attaches to the rung on most standard ladder racks to allow bend radius control for cables coming from either direction
- Easy to install double waterfall base maintains bend radius control in a vertical direction to provide a TIA/EIA-568-B compliant installation
- Material: Black Glass-Filled Nylon 6.6 which meets UL 94V-0 specifications



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CMW2B	Cable management double waterfall base. Used to maintain 1.75" (101.6mm) bend radius control vertically when transferring cable off either side of ladder rack rung. Mounts to ladder rack rung with standard cross section cable ties (included).	1	10

Threaded Rod Cover

- Protects cable from abrasion caused by contact with threaded rod
- Available in 18" (457mm) lengths
- Accept 1/2" to 5/8" (12.7mm – 15.9mm) threaded rod
- For indoor use only
- Material: Gray Flame Retardant Polyethylene which meets UL 94V-0 specifications



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
TRC18FR-X8	Used to protect cabling from threaded rod. Vertical slit allows easy installation.	10	100

Available in black. Order part TRC18FR-X20.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Stackable Cable Rack Spacers

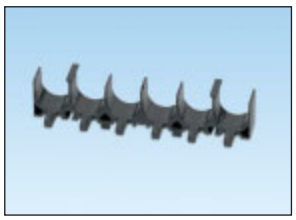
- Patented ladder rack accessories
- Separate and support cable and prevent pinch points between the bottom row of cable and the rung as a result of the weight of multiple cable layers applied on top of each other
- Mount to ladder rack with standard cross section cable ties
- Maximize rack space by stacking products for maximum cable capacity
- Provide an alternative to lacing cord by allowing user to secure cable to spacer to prevent movement of cable



CRS4-125-X



CRS1-125-X



CRS6-X



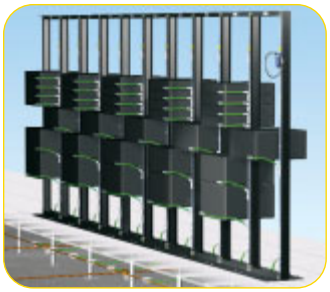
CRS1-X

Part Number	Part Description	Width		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm		
CRS4-125-X	Four space stackable cable rack spacer. Manufactured from black glass-filled flame retardant nylon 6.6. Accepts cable up to 1.25" (31.8mm) diameter.	5.24	133.1	10	100
CRS1-125-X	One space stackable cable rack spacer. Manufactured from black glass-filled flame retardant nylon 6.6. Use with CRS4 to fill width of ladder rack. Accepts cable up to 1.25" (31.8mm) diameter.	1.55	39.4	10	100
CRS6-X	Six space stackable cable rack spacer. Manufactured from black polycarbonate ABS blend. Accepts cable up to .80" (20.3mm) diameter.	5.25	133.4	10	100
CRS1-X	One space stackable cable rack spacer. Manufactured from black polycarbonate ABS blend. Use with CRS6 to fill width of ladder rack. Accepts cable up to .80" (20.3mm) diameter.	1.13	28.58	10	100

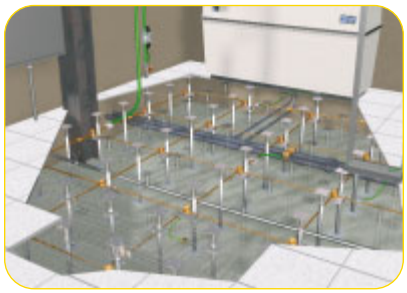
A. System Overview
B. Copper Systems
C. Fiber Optic Systems
D. Power over Ethernet
E. Zone Cabling
F. Wireless
G. Outlets
H. Media Distribution
I. Physical Infrastructure Management
J. Overhead & Underfloor Routing
K. Surface Raceway
L. Cabinets, Racks & Cable Management
M. Grounding & Bonding
N. Industrial
O. Labeling & Identification
P. Cable Management Accessories
Q. Index

NOTES

Grounding and Bonding



PANDUIT grounding and bonding solutions meet customer needs and today's critical application requirements for grounding data centers and telecommunication spaces. *PANDUIT*® *StructuredGround*™ Grounding System provides a high quality, visually verifiable, and dedicated grounding path to maintain system performance and protect network equipment and personnel. *PANDUIT* grounding and bonding components are designed for use on racks and cabinets which meet EIA-310-D.



- **Ensures highest network system performance**
- **Prevents equipment damage**
- **Maximizes uptime**
- **Meets TIA-942, J-STD-607-A, IEEE Std 1100™ (IEEE Emerald Book), UL and CSA**
- **Promotes personnel protection**
- **Designed for flexibility and easy installation**



StructuredGround™ Grounding System components provide a low resistance grounding path for reliability; include factory terminated jumpers for easy installation; and are kitted for convenience. Jumper kits include *PANDUIT* Copper Compression Electrical Connectors that meet NEBS Level 3 Criteria, the highest level of operability within the network facility environment. A full line of manual, controlled cycle, and battery operated hydraulic crimping tools meet application needs and provide lowest installed cost. For the complete line of *PANDUIT* Electrical Power and Grounding Connectors and crimping tools, visit www.panduit.com or refer to the Electrical Solutions Catalog SA-ELCB10.

The Purpose of Grounding and Bonding



The grounding and bonding system is more than just an insurance policy against a lightning strike or other surge event. It is an active, functioning system that provides protection for personnel and equipment. Proper grounding and bonding are essential for efficient network performance in the modern data center and telecommunication spaces.

A primary purpose of the grounding and bonding system is to create an adequate-capacity path for electrical surges and transient voltages to return to their source (which may include the earth). Lightning, fault currents, circuit switching (motors turning on and off), activation of surge protective devices (SPDs) and electrostatic discharge are common causes of these electrical surges and transient voltages. An effective grounding and bonding system minimizes the detrimental effects of these electrical surges and transient voltages.

A properly designed grounding and bonding system is intentional, visually verifiable, and adequately sized to handle expected currents safely and without undue effect on susceptible electronic equipment. Any metallic component that is part of the data center infrastructure (such as equipment, racks, ladder racks, cabinets, cable trays, etc.) must be properly connected to the grounding and bonding system.

What are the Effects of Improper Grounding?

Lower Reliability

- An improperly designed grounding (and bonding) system may be a primary source of interference and emission [1]
- According to the IEEE, the typical AC third-prong ground circuit is almost never sufficient to prevent damage to network equipment susceptible to ground-fault related potentials [2]
- Poorly designed or improperly applied grounding, bonding, and shielding techniques often adversely affect the performance of electronic equipment – from the circuit board to the network system [3]
- Approximately 70% of all anomalies, dysfunctions, or problems associated with power distribution systems are directly or indirectly related to bonding and grounding issues [4]

Safety Risks

- Personal injury from electric shock caused by improper grounding and bonding can cause immeasurable human suffering and significant expense
- Potential fire hazards exist when heat is generated from electrical surges that occur on a high impedance grounding and bonding path

1. Ott, Henry. *Noise Reduction Techniques in Electronic Systems.*, 2nd edition. NY: Wiley-Interscience, 1988.
2. Institute of Electrical and Electronics Engineers. IEEE Std 1100™ – 2005. *IEEE Recommended Practice for Powering and Grounding Electronic Equipment.*
3. Quoted from Doug Dorr, Senior Project Manager, EPRI and William Bush, Director of Research – Power and Grounding, *PANDUIT* Laboratories. Both serve on the IEEE P1100 committee (Emerald Book) in leadership positions and also on the IEEE SPD committee, as well as other standards organizations.
4. Quoted from S. Frank Waterer, Electrical Engineering, Fellow, at Schneider Electric with 30 years experience, Vice-Chair of IEEE/SPDC, NEMA member.

CAN YOU AFFORD IMPROPER GROUNDING?

According to IEEE, grounding and bonding are an essential part of the infrastructure, not just a tool to achieve power quality. [2]
Network equipment, such as switches, routers, and storage devices, costs anywhere from thousands of dollars to hundreds of thousands of dollars. The cost of proper grounding is only a tiny fraction of the cost of the equipment it is protecting. Clearly the cost of proper grounding and bonding is a small fraction of the larger cost of improper grounding and bonding – mainly, the inability to service customers properly.

Protect your infrastructure with the most comprehensive grounding system, designed specifically for easy selection and installation with the highest quality components to minimize your risk.

From the data center, to the manufacturing floor, to facilities operations, there are critical systems and equipment that require proper grounding and bonding. Protecting those systems, equipment, and personnel helps to ensure equipment reliability and thus availability of services, while resulting in lower operational expense.

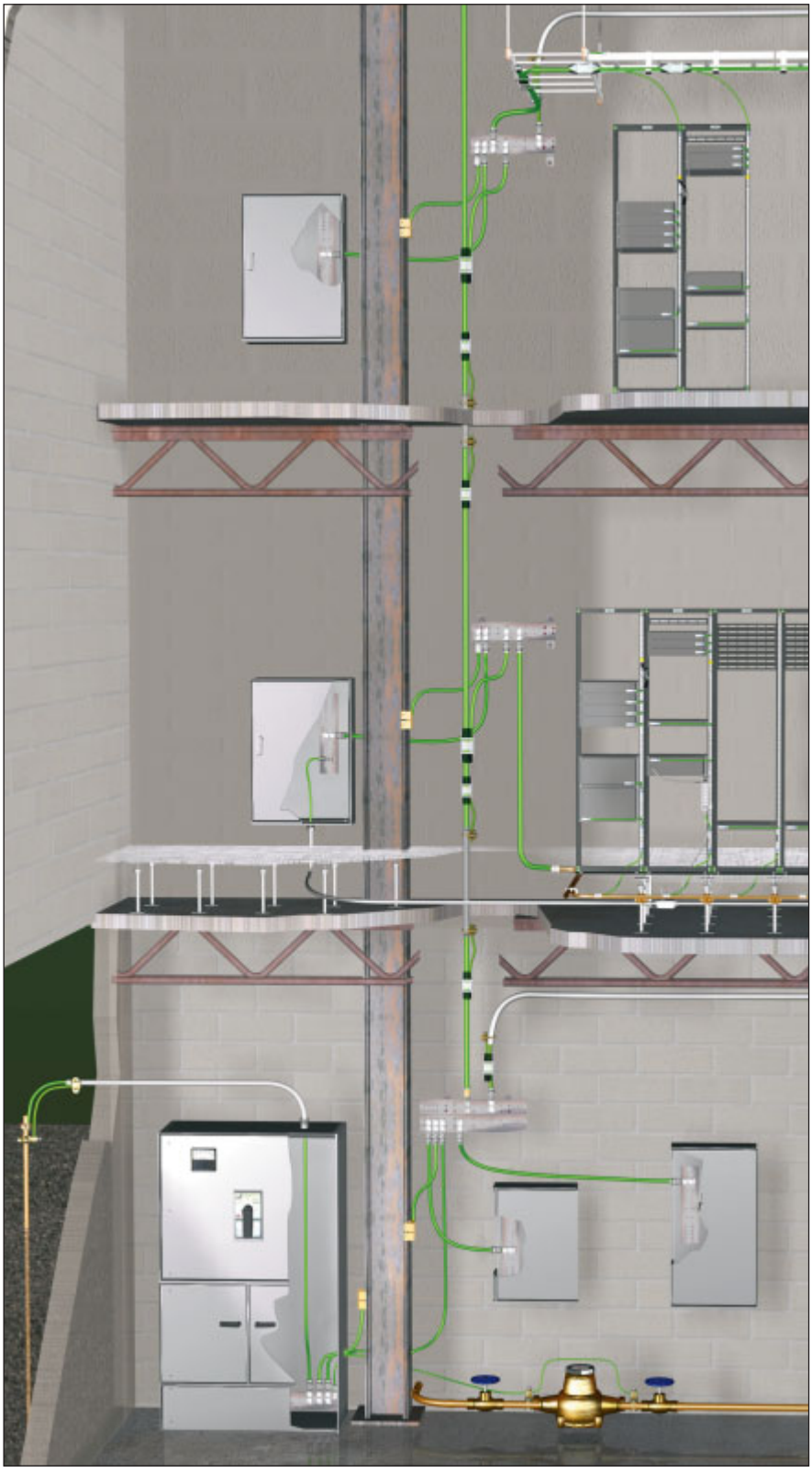
Comprehensive, integrated technology from *PANDUIT* addresses the grounding and bonding needs of the entire infrastructure including electrostatic discharge (ESD) protection, racks, cabinets, enclosures, access floors, control panels, service entrance, and direct burial applications. These industry-leading solutions deliver reliability, availability, safety and lower total cost of ownership. As a solution architecture, the *STRUCTUREDGROUND*™ Grounding System is complemented by a range of installation tooling, design software, and services.

***PANDUIT*® *STRUCTUREDGROUND*™ Grounding System gives you what you need to properly protect your investment.**

1. Ott, Henry, *Noise Reduction Techniques in Electronic Systems*, 2nd edition, NY; Wiley-Interscience, 1988.
2. Institute of Electrical and Electronics Engineers, IEEE Std 1100™ – 2005, *IEEE Recommended Practice for Powering and Grounding Electronic Equipment.*
3. Quoted from Doug Dorr, Senior Project Manager, EPRI and William Bush, Director of Research – Power and Grounding, *PANDUIT*. Both serve on the IEEE P1100 committee (Emerald Book) in leadership positions and also on the IEEE SPD committee, as well as other standards organizations.
4. Quoted from S. Frank Waterer, Staff Engineer at Schneider Electric with 30 years experience.

Common Bonding Network (CBN) Roadmap

• *PANDUIT® StructuredGround™* Grounding System is a complete, highly reliable line of products to ground your building and network equipment in compliance with BICSI TDM Manual,11th Edition and J-STD-607-A,TIA-942, IEEE Std 1100™ (IEEE Emerald Book), UL and CSA



Telecommunications Room (see roadmap on page M.6)

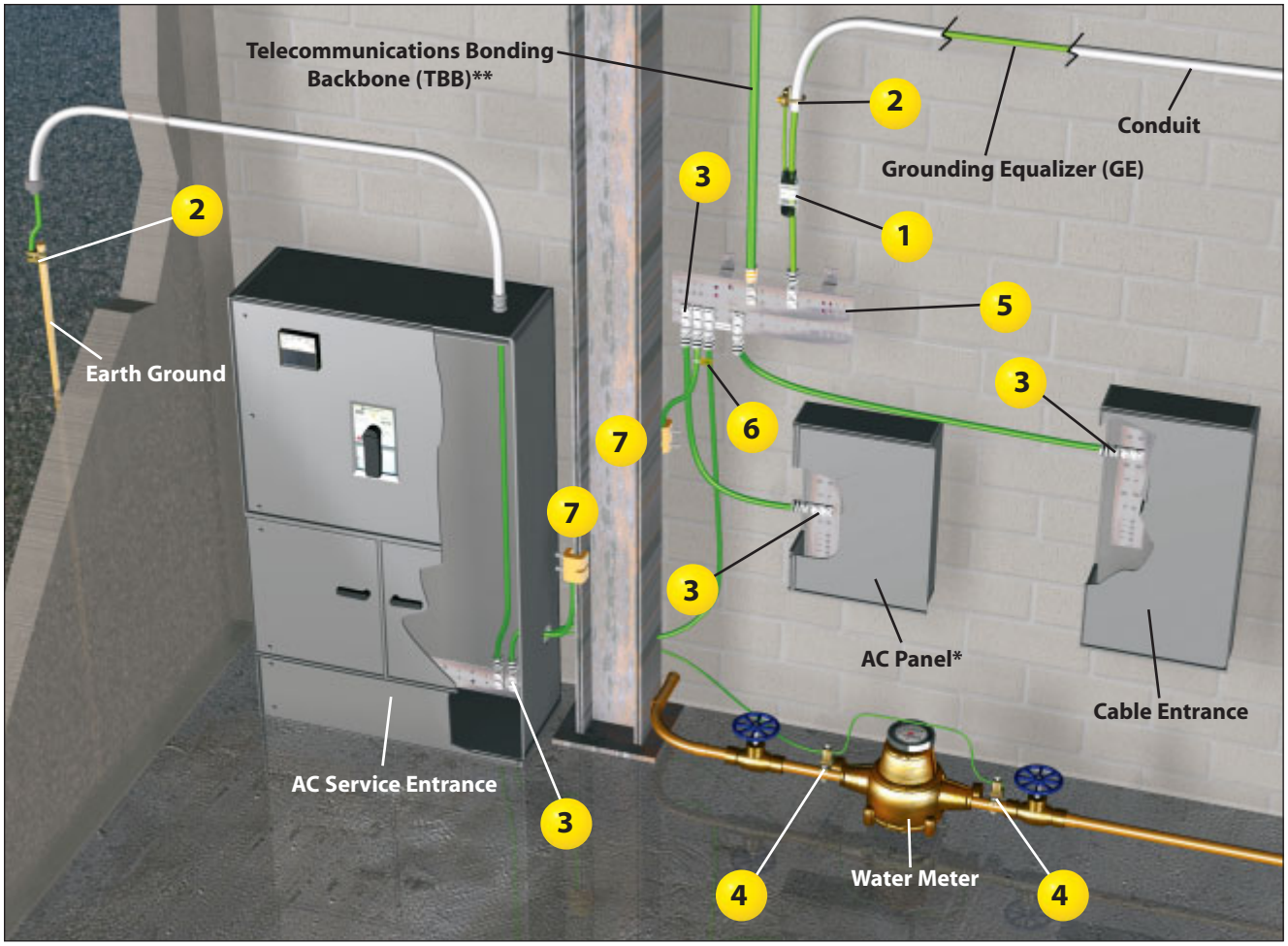
Data Center (see roadmaps on pages M.8 – M.9)

Service Entrance (see roadmap on page M.5)

For more data center grounding information, see www.panduit.com/dcgrounding.

Service Entrance Grounding Roadmap

- Complies with J-STD-607-A and IEEE Std 1100™ (IEEE Emerald Book)
- Grounding Equalizer (GE) is required when two or more Telecommunications Bonding Backbones (TBB) are used within a multi-story building; bond TBBs together with a GE at the top floor and at a minimum of every third floor in between



1 Copper Compression HTAP and Clear Cover: HTWC (pages M.37 thru M.38)



2 Bronze, U-Bolt Grounding Clamp: GPL (page M.40)



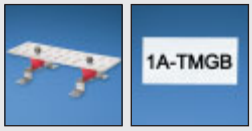
3 Copper Compression, Two-Hole, Long Barrel with Window Lug: LCC-W (pages M.33 – M.34)



4 Bronze, Water Pipe Grounding Clamp: KP (page M.40)



5 Telecommunications Main Grounding Busbar (TMGB) and Busbar Label (page M.29)



6 Telecommunications Grounding and Bonding Conductor Label Kit: LTYK (page M.29)



7 Universal Beam Grounding Clamp: GUBC500-6 (page M.31)



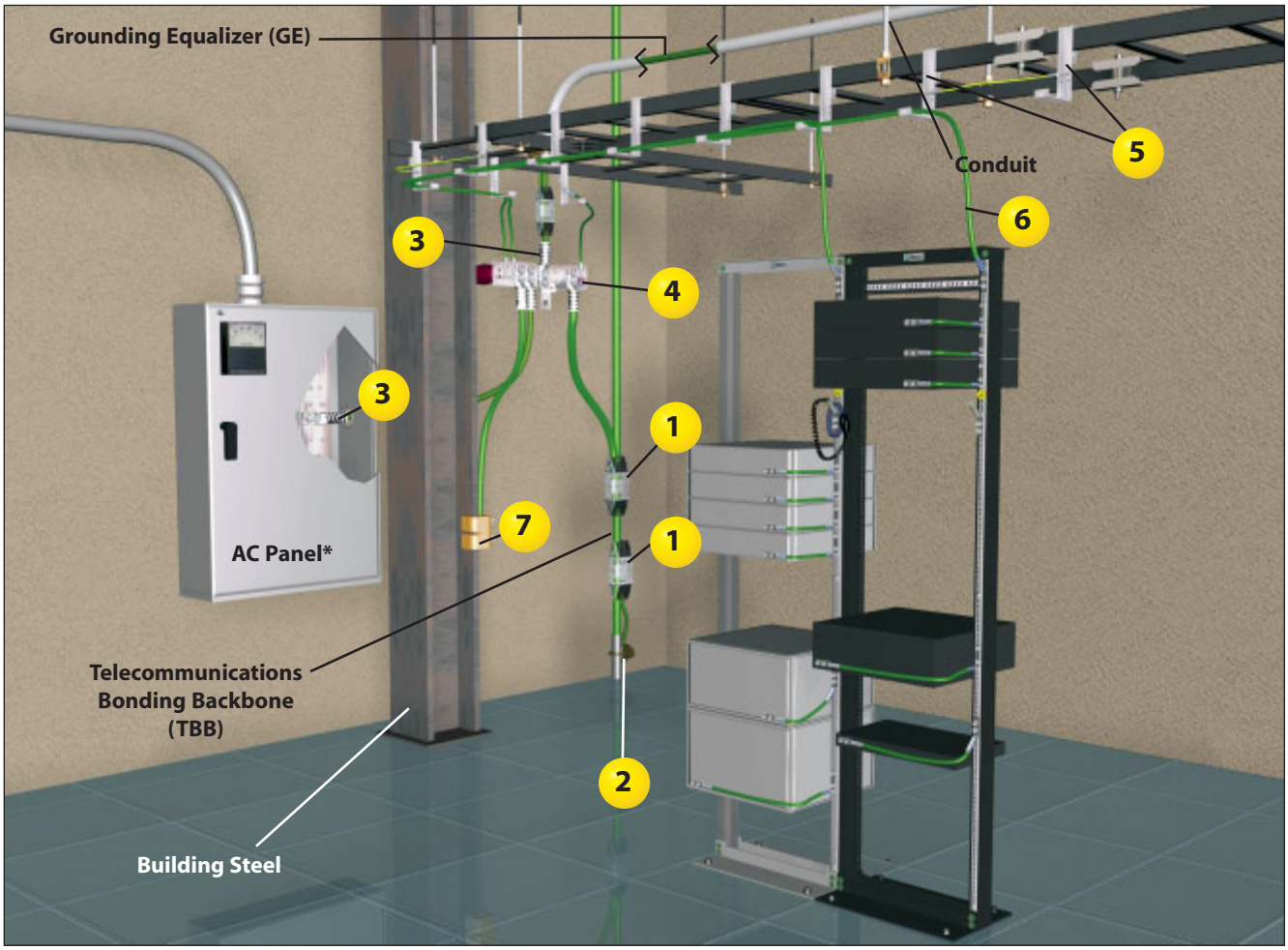
For the complete line of *Structured Ground*™ Direct Burial Compression Grounding System, visit www.panduit.com

*AC panel should be grounded per NEC standards. Enclosure should be grounded per manufacturer's specifications.
**Specification J-STD-607-A specifies different size conductors based on the length of the Telecommunications Bonding Backbone (TBB).

Telecommunications Room Grounding Roadmap

- Complies with BICSI TDM Manual, 11th Edition and J-STD-607-A, TIA-942, IEEE Std 1100™ (IEEE Emerald Book), UL and CSA
- Bonding hardware is recommended to mount all panels, equipment, shelves, etc. to ensure electrical continuity between metallic components and the grounded rack or cabinet
- Can be used to ground equipment mounted in racks and cabinets which meet EIA-310-D; installer should bond all racks and cabinet members to the grounding strip

Back of Racks Shown



1. **Copper Compression HTAP and Clear Cover: HTWC (pages M.37 – M.38)**



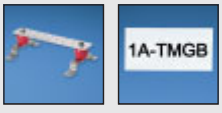
2. **Bronze, U-Bolt Grounding Clamp: GPL (page M.40)**



3. **Copper Compression, Two-Hole, Long Barrel with Window Lug: LCC-W (pages M.33 – M.34)**



4. **Telecommunications Grounding Busbar (TGB) and Busbar Label (page M.29)**



5. **Auxiliary Cable Bracket: GACB (page M.31)**



6. **Telecommunication Equipment Bonding Conductor (TEBC) Kits: (pages M.21 – M.22)**



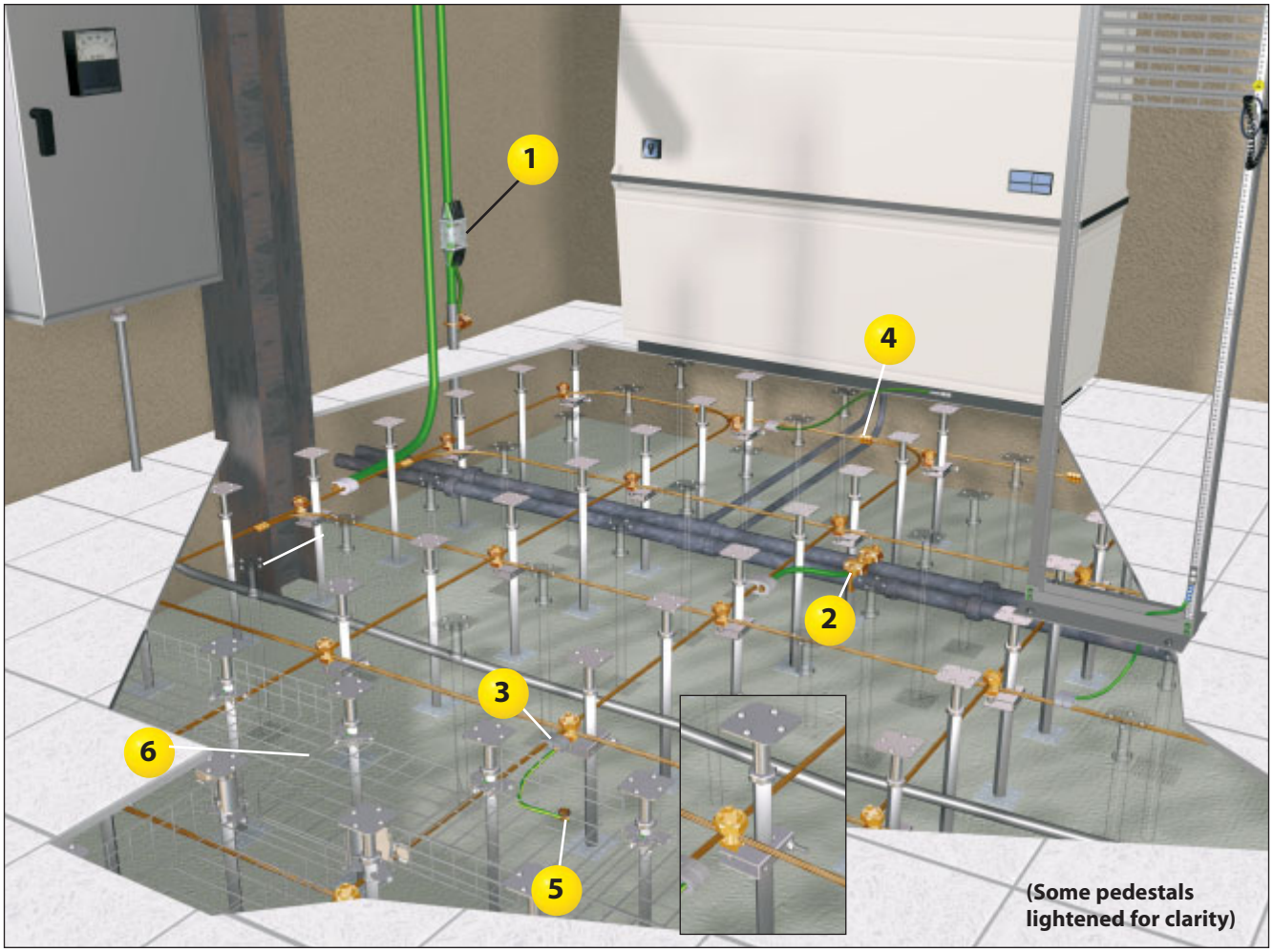
7. **Universal Beam Grounding Clamp: GUBC500-6 (page M.31)**



*AC panel should be grounded per NEC standards. Enclosure should be grounded per manufacturer's specifications.
A typical overhead cabling system includes a multitude of metallic components which are connected together. It is the responsibility of the installer to insure all of the metallic components are bonded, which means that they are connected together electrically in accordance with applicable specifications. The *PANDUIT* Grounding and Bonding System does not insure required bonding of the overhead cabling system metallic components.

Access Floor Mesh Common Bonding Network (MCBN) Roadmap

- Complies with BICSI TDM Manual, 11th Edition and J-STD-607-A, TIA-942, IEEE Std 1100™ (IEEE Emerald Book), UL and CSA
- MCBN for access floor deployment is recommended in a grid design on 4 foot intervals, allowing for bonding of every other access floor pedestal; this design enables the bonding of at least one pedestal from each access floor tile directly to the MCBN network
- Bond all metallic elements to the MCBN, including rack/cabinet grounding jumpers, wire basket, water pipes and air conditioning units



1 **Copper Compression HTAP and Clear Cover: HTWC (pages M.37 – M.38)**



2 **Bronze, U-Bolt Grounding Clamp: GPL (page M.40)**



3 **Access Floor Grounding Clamp: GPQC (page M.16)**



4 **Code Conductor, Thin Wall, CTAP: CTAPF (page M.39)**



5 **Split Bolt, Copper: SBC (page M.42)**



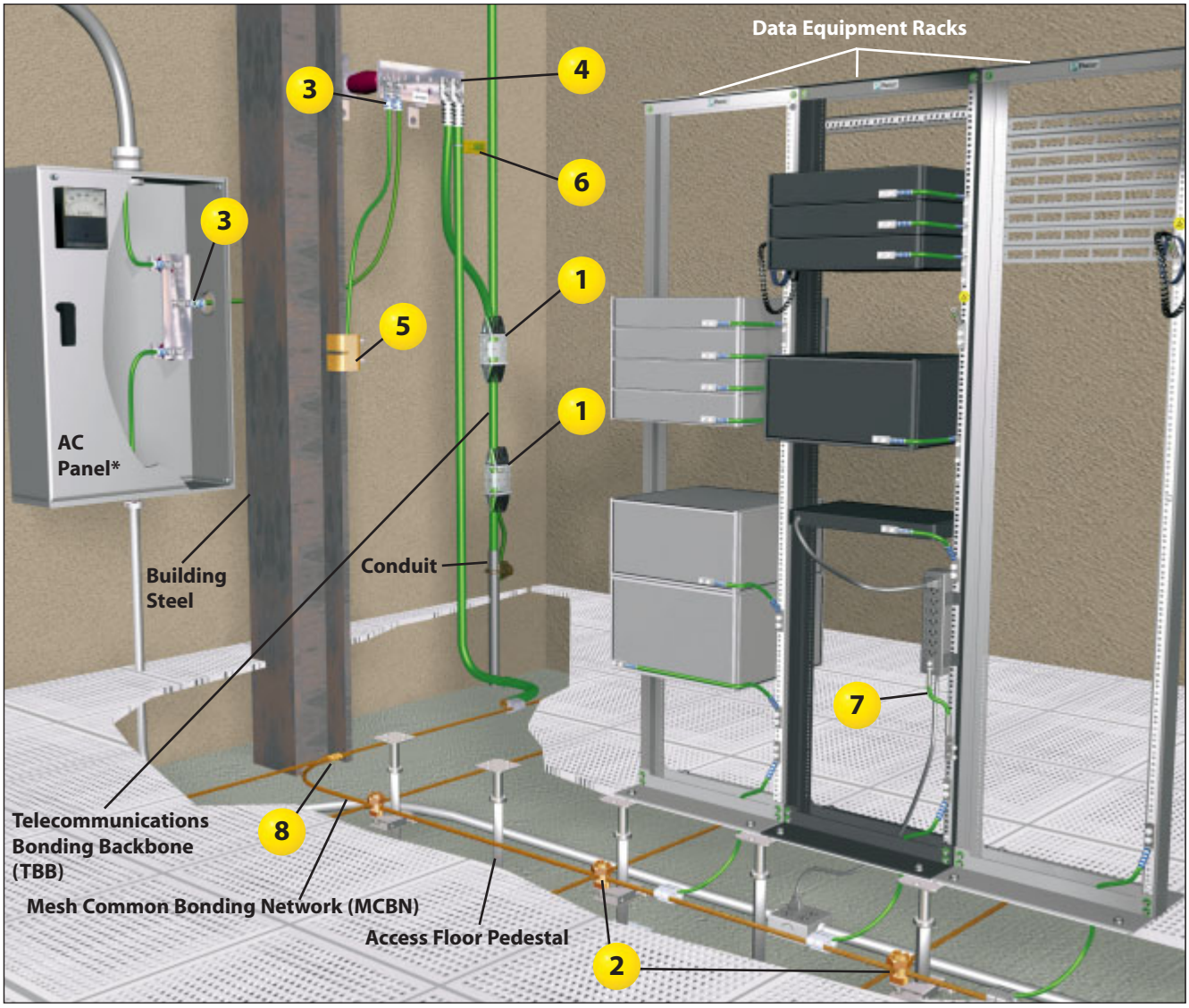
6 ***GridRunner*™ Underfloor Cable Routing System (pages J.57 – J.61)**



Data Center Rack and Cabinet Grounding Roadmap

- Complies with BICSI TDM Manual, 11th Edition and J-STD-607-A, TIA-942, IEEE Std 1100™ (IEEE Emerald Book), UL, and CSA
- Bonding hardware is recommended to mount all panels, equipment, shelves, etc. to ensure electrical continuity between metallic components and the grounded rack or cabinet
- Designed for use on racks and cabinets which meet EIA-310-D, see pages L.1 – L.47 for the *PANDUIT* cabinets, racks, and cable management offering

Back of Racks Shown



1 **Copper Compression HTAP and Clear Cover: HTWC (pages M.37 – M.38)**



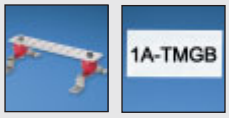
2 **Access Floor Grounding Clamp: GPQC (page M.16)**



3 **Copper Compression, Two-Hole, Long Barrel with Window Lug: LCC-W (pages M.33 – M.34)**



4 **Telecommunications Grounding Busbar (TGB) and Busbar Label (page M.29)**



5 **Universal Beam Grounding Clamp: GUBC500-6 (page M.31)**



*AC panel should be grounded per NEC standards. Enclosure should be grounded per manufacturer's specifications.
A typical access floor includes a multitude of metallic components which are connected together. It is the responsibility of the manufacturer and installer of the access floor to insure all the access floor metallic components are bonded which means that they are connected together electrically in accordance with applicable specifications. The *PANDUIT* Grounding and Bonding System does not insure required bonding of the access floor metallic components.

Back of Cabinets Shown



6 Telecommunications Grounding and Bonding Conductor Label Kit: LTYK (page M.29)



8 Code Conductor, Thin Wall, CTAP: CTAPF (page M.39)



7 Surge Suppressor Jumper Kit: SSGK (page M.20)



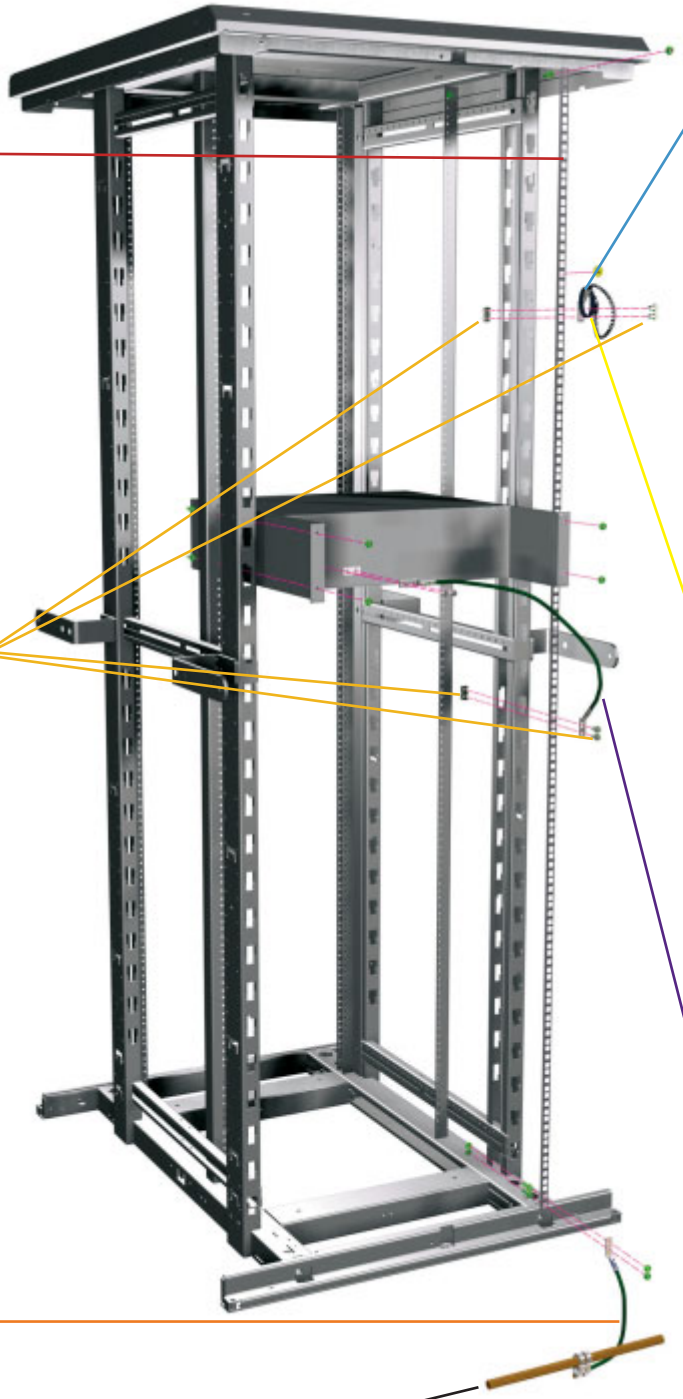
*AC panel should be grounded per NEC standards. Enclosure should be grounded per manufacturer's specifications.
A typical access floor includes a multitude of metallic components which are connected together. It is the responsibility of the manufacturer and installer of the access floor to insure all the access floor metallic components are bonded which means that they are connected together electrically in accordance with applicable specifications. The *PANDUIT* Grounding and Bonding System does not insure required bonding of the access floor metallic components.

Selection Guide – *StructuredGround*™ Kits for *Net-Access*™ Cabinets

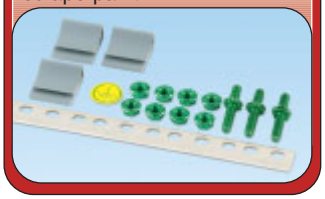
LISTED CERTIFIED

- Complies with the "Telecommunications Infrastructure Standard for Data Centers" as described in TIA-942
- Maximizes uptime, maintains system performance, and protects network equipment
- Provides a dedicated, low resistance, and visually verifiable ground system
- Flexible design for use on EIA-310-D compliant cabinets

Typical cage nut application
Back of cabinet shown
(Sides/doors removed for clarity)
Kits for threaded and
thru-hole also available



Grounding Strip Kit: RGS (page M.17)
Patent pending hardware provides a bond between grounding strip and cabinet, eliminating the need to scrape paint



Bonding Cage Nut: CNBK (page M.25)
Patent pending, bonds equipment and patch panels to cabinet rails



Common Bonding Network (CBN) Jumper Kit: RGCBNJ (page M.16)
Connects grounding busbar to MCBN in access floor and overhead grounding applications



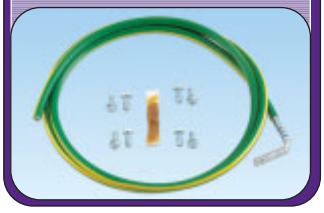
Electrostatic Discharge (ESD) Port Kit: RGESD (page M.24)
Bent 45° acts as a hook to hold ESD wrist strap



Electrostatic Discharge (ESD) Wrist Strap Kits: RGESDWS (page M.24)
Prevents damaging electrostatic discharge to equipment and personnel



Equipment Jumper Kit: RGEJ (page M.19)
Bonds network equipment to the grounding strip or grounding busbar



Mesh Common Bonding Network (MCBN)

Selection Guide – *StructuredGround*™ Kits for *Net-Access*™ Cabinets (continued)

Cabinet Grounding Selection in 2 Easy Steps:

1. What type of fasteners do your mounting rails require?
2. What is the maximum depth of the equipment being mounted?

Selection Criteria		Grounding Strip Kit^■	ESD Port Kit (2 required)‡	ESD Wrist Strap (1 per ESD Port)	Grounding Busbar Kit^	Front to Back Rail Jumper Kit^	Common Bonding Network (CBN) Jumper Kit*	Equipment Jumper Kit**	Bonding Hardware***
***PANDUIT*® *Net-Access*™ Cabinets: CN1, CN2, CN4, CN5, CN1CN, CN2CN, CS1, CS2 and CS3**		***StructuredGround*™ Kits for Data Center Cabinet Grounding**							
1. Rail Fasteners									
Threaded #12-24•		**RGS134-1Y**	**RGESD2-1**	**RGESDWS**	—	—	**RGCBNJ660P22**	**GJS660U**	**RGTBSG-C (Bonding Screw)**
Cage Nut••		**RGS134B-1**	**RGESD2B-1**	**RGESDWS**					**CNBK (Bonding Cage Nut)**
EIA-310-D Compliant Cabinets		***StructuredGround*™ Kits for Data Center Cabinet Grounding**							
1. Rail Fasteners	**2. Rail Depth up to**								
Threaded #12-24 or M6	20" (.5M)	**RGS134-1Y**	**RGESD2-1**	**RGESDWS**	**RGRB19U**	**CGJ620U**	**RGCBNJ660P22**	**GJS660U**	**RGTBSG-C or RGTBSM6G-C**
	30" (.75M)					**CGJ630U**			
	40" (1M)					**CGJ640U**			
Cage Nut	20" (.5M)	**RGS134B-1**	**RGESD2B-1**	**RGESDWS**	**RGRB19CN**	**CGJ620UB**			**CNBK (Bonding Cage Nut)**
	30" (.75M)					**CGJ630UB**			
	40" (1M)					**CGJ640UB**			

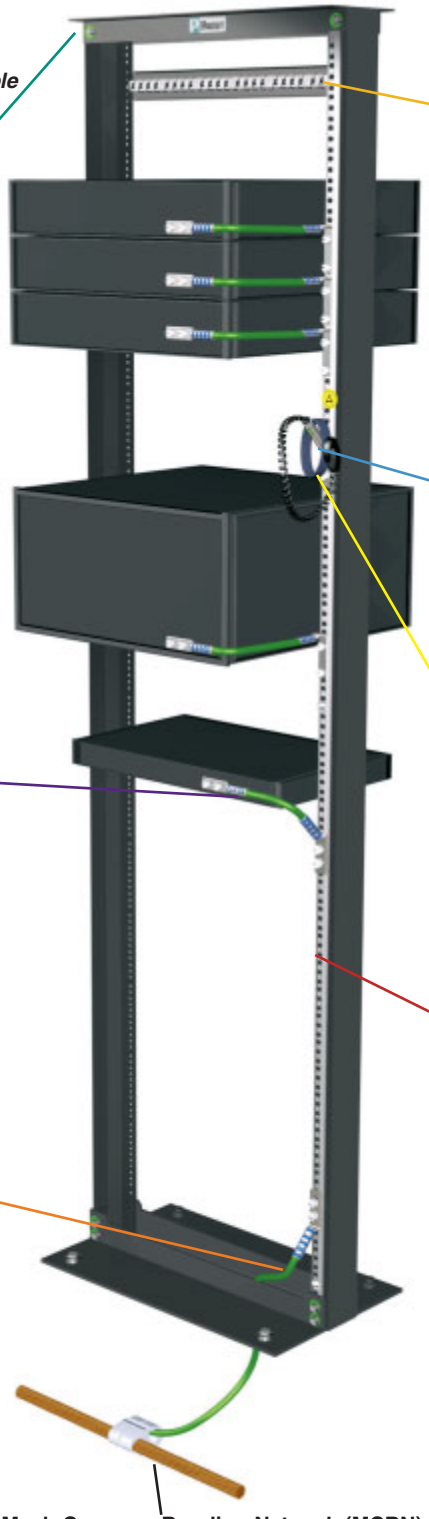
^Grounding strip kits, grounding busbar kits, and front to back rail jumper kits are supplied with mounting hardware based upon rail type.
■Grounding strip kits include 45 RU strip lengths, additional kits for 42 RU and 47 RU also available. Grounding strip kits also available in packages of ten.
‡ESD port recommended for use on front and back of cabinet.
*CBN jumper kit supports MCBN connection up to #2 AWG (35mm²). Use RGCBNJ660PY for cable sizes up to 250kcmil (120mm²).
**Additional equipment jumper kits available in different sizes with different termination options, refer to page M.19. One equipment jumper kit is required per component.
***Use bonding hardware to mount and bond equipment to the cabinet.
•Threaded #12-24 rails are included with the CN1, CN2, CN4 and CN5 cabinets.
••Cage nut equipment rails are sold in pairs for the cabinets, order part number CNRC, CN1CN, CN2CN, CS1, CS2 or CS3.

Selection Guide – *StructuredGround*™ Kits for Racks

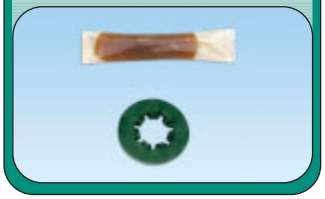
LISTED CERTIFIED

- Complies with the "Telecommunications Infrastructure Standard for Data Centers" as described in TIA-942
- Maximizes uptime, maintains system performance, and protects network equipment
- Provides a dedicated, low resistance, and visually verifiable ground system
- Flexible design for use on EIA-310-D compliant racks

New installation
Typical threaded application
Back of rack shown
Kits for cage nut and thru-hole also available



Paint Piercing Grounding Washer Kit: RGW (page M.26)
Provides a superior bond between frame members, serrations eliminate the need to scrape paint



Equipment Jumper Kit: RGEJ (page M.19)
Bonds network equipment to the grounding strip or grounding busbar



Common Bonding Network (CBN) Jumper Kit: RGCBNJ (page M.16)
Connects grounding strip or grounding busbar to MCBN in access floor and overhead grounding applications



Bonding Screw: RGTBS (page M.25)
Patent pending, bonds equipment and patch panels to the front of the rack.



Electrostatic Discharge (ESD) Port Kit: RGESD (page M.24)
Bent 45° acts as a hook to hold ESD wrist strap



Electrostatic Discharge (ESD) Wrist Strap Kit: RGESDWS (page M.24)
Prevents damaging electrostatic discharge to equipment and personnel



Grounding Strip Kit: RGS (page M.17)
Patent pending hardware provides a bond between grounding strip and rack, eliminating the need to scrape paint



Mesh Common Bonding Network (MCBN)

Selection Guide – *StructuredGround*™ Kits for Racks (continued)

For *PANDUIT* racks:
Simply find your rack part number and follow across.

For other EIA-310-D compliant racks, follow these two easy steps:

1. What type of installation do you have?
2. What type of fasteners do your mounting rails require?

Selection Criteria	Grounding Strip Kit	ESD Port Kit (2 required)*	ESD Wrist Strap (1 per ESD Port)	Grounding Busbar Kit	Common Bonding Network (CBN) Jumper Kit	Equipment Jumper Kit**	Bonding Hardware***
***PANDUIT* Racks**	***StructuredGround*™ Kits for Data Center Rack Grounding**						
2 Post Racks							
CMR19X84, CMR19X47, CMR19X84S New Installation	**RGS134-1Y**	**RGESD2-1**	**RGESDWS**	—	**RGCBNJ660P22**	**GJS660U**	**RGTBSG-C** (#12-24)
CMR19X84, CMR19X47, CMR19X84S Retrofit Installation	—			**RGRB19U**		**GJS660U**	
				RGRKCBNJY			
NFR84 New Installation		(1 each) **RGESD-1Y** and **RGESD2-1**	**RGESDWS**	**RGRB19U**	**RGCBNJ660P22**		
NFR84 Retrofit Installation							
4 Post Racks							
CMR4P84, CMR4P96 New Installation	**RGS134-1Y**	**RGESD2-1**	**RGESDWS**	—	**RGCBNJ660P22**	**GJS660U**	**RGTBSG-C**
CMR4P84, CMR4P96 Retrofit Installation	—			**RGRB19U**		**GJS660U**	
CMR4P84CN, CMR4P96CN New Installation	**RGS134B-1**	**RGESD2B-1**	**RGESDWS**	—		**GJS660U**	**CGNBSK**
CMR4P84CN, CMR4P96CN Retrofit Installation	—			**RGRB19CN**		**GJS660U**	
EIA-310-D Compliant Racks	**RGS134-1Y**	**RGESD2-1**	**RGESDWS**	—	**RGCBNJ660P22**	**GJS660U**	**RGTBSG-C** (#12-24) or **RGTBSM6G-C** (M6)
		RGESD2A-1		—			**RGTBS1032G-C** (#10-32) or **RGTBSM5G-C** (M5)
	—	**RGESD2-1**		**RGRB19U**	**RGCBNJ660P22**	**GJS660U**	**RGTBSG-C** (#12-24) or **RGTBSM6G-C** (M6)
				RGRKCBNJY			

The paint piercing grounding washers work with 3/8" (M8) hardware, for all other sizes, use the grounding solution for retrofit installations.
*ESD port recommended for use on front and back of rack.
**Additional equipment jumper kits available in different sizes with different termination options, refer to page M.19. One equipment jumper kit is required per component.
***Use bonding hardware to mount and bond equipment to the rack.

Features and Benefits – *StructuredGround*™ Kits for Cabinets

LISTED CERTIFIED

PANDUIT offers a variety of kits with premium components engineered specifically to meet TIA-942 for reliable cabinet grounding.

- Provides a dedicated, low resistance, and visually verifiable ground system to maximize uptime, maintain data center system performance, and protect network equipment and personnel
- Incorporates a flexible design that can be used with cabinets which meet EIA-310-D
- Offers ease of installation – no paint scraping required to bond cabinets; factory terminated jumpers simply bolt in place



A **Bonding Cage Nut** is a unique hardware with paint piercing serrations designed to create a bond point between the cabinet rail and the equipment being installed



B **Grounding Strip** is made from high conductivity wrought copper and tin-plated to inhibit corrosion, providing the lowest resistance path to ground



C **Reverse Bent Lugs** are factory terminated on front to back rail jumper kits to bond the front and back cabinet rails; innovative design maximizes space by utilizing only one RU



D **Bonding Studs** include patent pending paint piercing serrations to create a bond point between the cabinet rail, strip, busbar and lug; equipment can be installed at any time without removal of stud



E **Grounding Busbar** is made from high conductivity, low resistance wrought copper and tin-plated to inhibit corrosion



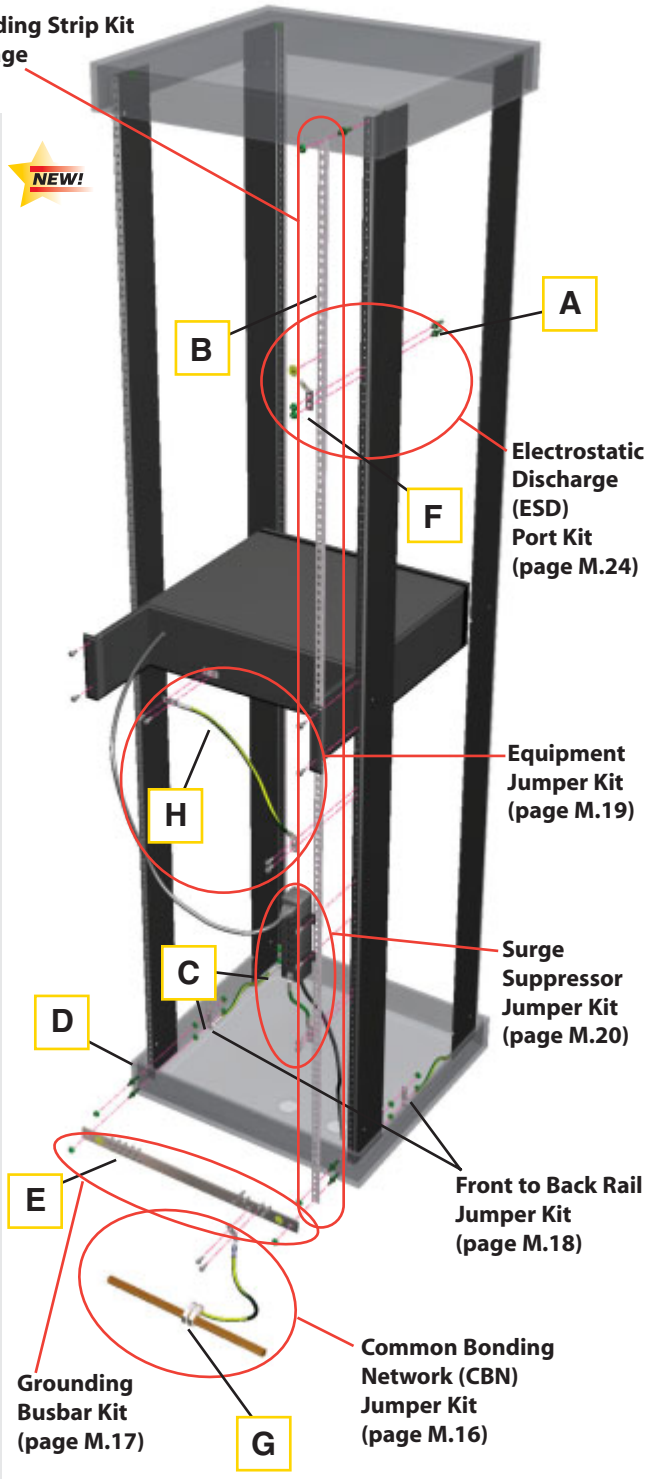
F **Electrostatic Discharge (ESD) Port** is made from high conductivity, low resistance copper and tin-plated to inhibit corrosion plus it functions as an ESD wrist strap hanger



G **Copper Compression HTAP** is UL Listed and CSA Certified; used to make a highly reliable, permanent bond between the mesh common bonding network and common bonding network (CBN) jumper kit



H **Jumper** has UL, VW-1 flame rated green-and-yellow insulation and is factory terminated with copper compression, two-hole, long barrel with window lug; lug is UL Listed, CSA Certified and meets NEBS Level 3



Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Features and Benefits – *StructuredGround*™ Kits for Racks

LISTED CERTIFIED

PANDUIT offers a variety of kits with premium components engineered specifically to meet TIA-942 for reliable rack grounding.

- Provides a dedicated, low resistance, and visually verifiable ground system to maximize uptime, maintain data center system performance, and protect network equipment and personnel
- Incorporates a flexible design that can be used with racks which meet EIA-310-D
- Offers ease of installation – no paint scraping required to bond racks; factory terminated jumpers simply bolt in place



A **Paint Piercing Grounding Washer** is made from hardened steel and electro zinc plated which inhibits corrosion to provide a superior bond between frame members on bolt-together racks



B **Grounding Strip** is made from high conductivity wrought copper and tin-plated to inhibit corrosion, providing the lowest resistance path to ground



C **Thread-Forming Screws** are made from electro zinc plated steel and provide a bond to the rack by removing paint from threaded holes without creating metal shavings



D **Electrostatic Discharge (ESD) Port** is made from high conductivity, low resistance copper and tin-plated to inhibit corrosion plus it functions as an ESD wrist strap hanger



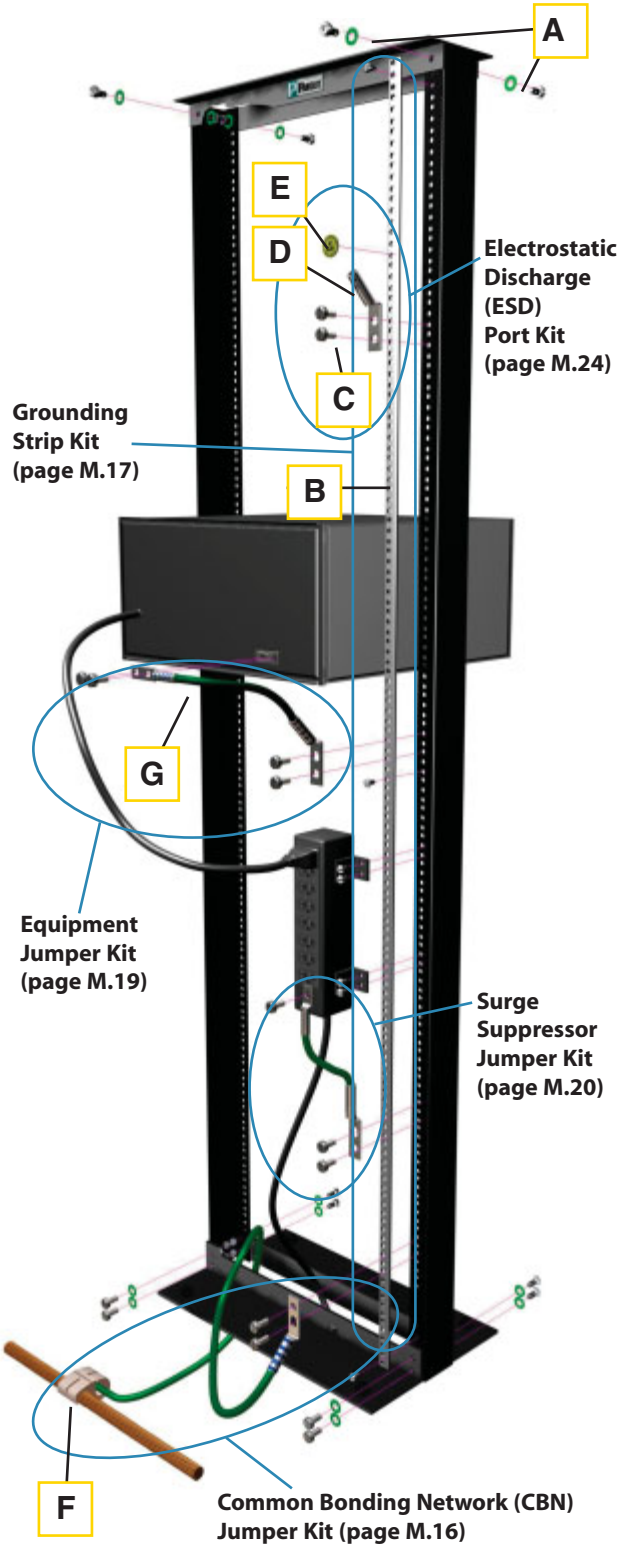
E **Electrostatic Discharge (ESD) Protection Sticker** is provided in black and yellow for high visibility and easy identification as an ESD port



F **Copper Compression HTAP** is UL Listed and CSA Certified; used to make a highly reliable permanent bond between the mesh common bonding network and common bonding network (CBN) jumper kit



G **Jumper** has UL, VW-1 flame rated green-and-yellow insulation and is factory terminated with copper compression, two-hole, long barrel with window lug; lug is UL Listed, CSA Certified and meets NEBS Level 3 with a single stud hole and slot which allows mounting for 1/2" to 5/8" hole spacing and accommodates stud sizes 1/4", #12, and 6mm



NEW! LISTED CERTIFIED PATENT PENDING

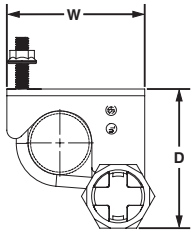
Access Floor Grounding Clamps

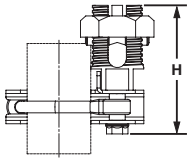
- Bond mesh common bonding network (MCBN) conductors to each other and bond the access floor pedestals to the conductors
- Captive u-bolt design utilizes a single hinged bolt to speed installation
- Specifically designed to bond perpendicular MCBN conductors per TIA-942
- Accommodate conductors from #6 – 1/0 AWG, minimizes inventory requirements
- Bond round and square access floor pedestals for greater flexibility





Installed on Pedestal



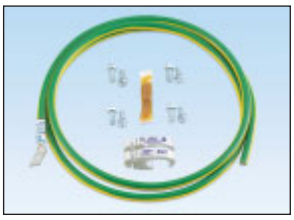


Part Number	Round Pedestal In. (mm)	Square Pedestal In. (mm)	MCBN Conductor Size Range AWG (mm²)	Figure Dimensions In. (mm)			Tightening Torque In. – Lbs. (Nm)		Std. Pkg. Qty.	Std. Ctn. Qty.
				D	W	H	Conductor	Clamp		
GPQC07-1/0	3/4 – 7/8 (19.1 – 22.2)	— —	#6 SOL – 1/0 STR (16 – 50)	4.25 (108.0)	3.38 (85.9)	3.19 (81.0)	32 (43.5)	12.5 (17)	1	10
GPQC10-1/0	1 – 1 1/8 (25.4 – 28.6)	7/8 (22.2)	#6 SOL – 1/0 STR (16 – 50)	4.19 (106.4)	3.38 (85.9)	3.19 (81.0)	32 (43.5)	12.5 (17)	1	10
GPQC12-1/0	1 1/4 (31.8)	— —	#6 SOL – 1/0 STR (16 – 50)	4.53 (115.1)	3.44 (87.4)	3.19 (81.0)	32 (43.5)	12.5 (17)	1	10
GPQC15-1/0	1 1/2 (38.1)	— —	#6 SOL – 1/0 STR (16 – 50)	4.47 (113.5)	3.44 (87.4)	3.19 (81.0)	32 (43.5)	12.5 (17)	1	10

LISTED CERTIFIED

Common Bonding Network (CBN) Jumper Kits

- Bond the rack or cabinet to the MCBN
- HTAPs, included in kits, require crimping tool and die; see the CT-930 crimping tool on page M.43, the CT-2931 and CT-2931/E crimping tools on page M.44 and the CD-930H-250 crimping die on page M.45
- HTAPs are UL Listed and CSA Certified for applications up to 600 V when crimped with *PANDUIT* and specified competitor crimping tools and *PANDUIT* crimping dies
- Engineered to comply with US and International grounding requirements



Part Number	MCBN Conductor Size AWG (mm²)	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
RGCBNJ660P22	HTCT2-2-1 #6 – #2 AWG (16 – 25)	#6 AWG (16mm²) jumper; 60" (1.52m) length; 45° bent lug on grounding strip side; provided with .16 oz. (5cc) of antioxidant, two each #12-24 x 1/2", M6 x 12mm, #10-32 x 1/2" and M5 x 12mm thread-forming screws and a copper compression HTAP* for connecting to the MCBN.	1	10
RGCBNJ660PY	HTCT250-2-1 #2 AWG – 250 kcmil (35 – 120)		1	10

*HTAPs also sold separately, see pages M.37 – M.38.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

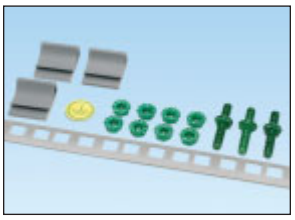
Grounding Strip Kits

LISTED CERTIFIED

- Bonds up to 45 RU per rack
- EIA Universal mounting hole pattern
- Engineered to comply with US and International grounding requirements



Threaded Rail Kit



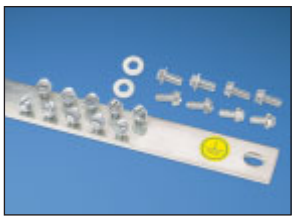
Cage Nut Rail Kit

Part Number	Part Description	Std. Pkg. Qty.
Grounding Strip Kits for Threaded Rail Fasteners		
RGS134-1Y	Grounding strip; 78.65" (2m) length; .67" (17mm) width; .05" (1.27mm) thickness; provided with .16 oz. (5cc) of antioxidant, one grounding sticker and three each #12-24 x 1/2" and M6 x 12mm thread-forming screws.	1
RGS134-10-1Y	Ten grounding strips; 78.65" (2m) length; .67" (17mm) width; .05" (1.27mm) thickness; provided with .16 oz. (5cc) of antioxidant, ten grounding stickers and 30 each #12-24 x 1/2" and M6 x 12mm thread-forming screws.	1
Grounding Strip Kits for Cage Nut Rail Fasteners		
RGS134B-1	Grounding strip; 78.70" (2m) length; .67" (17mm) width; .05" (1.27mm) thickness; provided with .16 oz. (5cc) of antioxidant, one grounding sticker, three cage nut bonding studs, eight #12-24 bonding nuts and three strip clips.	1
RGS134B-10-1	Ten grounding strips; 78.70" (2m) length; .67" (17mm) width; .05" (1.27mm) thickness; provided with .16 oz. (5cc) of antioxidant, ten grounding stickers, 30 cage nut bonding studs, 80 #12-24 bonding nuts and 30 strip clips.	1

Grounding Busbar Kits

LISTED CERTIFIED

- Provide the common grounding point within the cabinet
- Optimized for installation on 19" racks or cabinets that meet EIA-310-D
- Can be positioned anywhere on the rack or cabinet
- Available pre-assembled with twenty mounting screws for quick and easy installation
- Engineered to comply with US and International grounding requirements

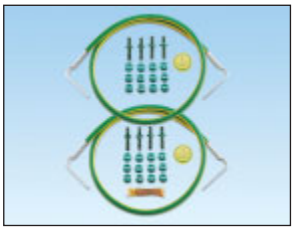


RGRB19U

Part Number	Part Description	Std. Pkg. Qty.
Grounding Busbar Kits for Threaded Rail Fasteners		
RGRB19Y	Grounding busbar; 19" (483mm) length; tin-plated; fourteen holes arranged for flexibility in mounting; provided with two each #12-24 x 1/2" and M6 x 12mm thread-forming screws.	1
RGRB19U	Grounding busbar; 19" (483mm) length; tin-plated; twenty holes arranged for flexibility in mounting with twenty #12-24 x 1/2" hex head screws installed; mounting hole sets have 5/8" (15.9mm) spacing; provided with two each #12-24 x 1/2", M6 x 12mm thread-forming screws, and two #12 flat washers for mounting.	1
Grounding Busbar Kit for Cage Nut Rail Fasteners		
RGRB19CN	Grounding busbar; 19" (483mm) length; tin-plated; twenty holes arranged for flexibility in mounting with twenty #12-24 x 1/2" hex head screws installed; mounting hole sets have 5/8" (15.9mm) spacing; provided with two cage nut bonding studs and four #12-24 bonding nuts.	1

Front to Back Rail Jumper Kits

- Bond the front and back cabinet rails to the cabinet grounding busbar
- Patent pending hardware incorporates paint piercing serrations to create a bond point between the cabinet rail and lug; hardware never needs to be removed for new equipment installations
- Both ends are factory terminated with reverse bent lugs that save space, confining the connection to one RU
- Available in three lengths, 20", 30", and 40" to satisfy a wide range of cabinet rail depths
- Engineered to comply with US and International grounding requirements



Part Number	Length In. (m)	Part Description	Std. Pkg. Qty.
Front to Back Rail Jumper Kits for #12-24 or M6 Rail Fasteners			
CGJ620U	20 (.50)	Two #6 AWG (16mm²) jumpers; factory terminated on both ends with 90° reverse bent lugs; provided with .16 oz. (5cc) of antioxidant, two grounding stickers, eight each #12-24 and M6 bonding studs and sixteen each #12-24 and M6 bonding nuts.	1
CGJ630U	30 (.75)		1
CGJ640U	40 (1.00)		1
Front to Back Rail Jumper Kits for Cage Nut Rail Fasteners			
CGJ620UB	20 (.50)	Two #6 AWG (16mm²) jumpers; factory terminated on both ends with 90° reverse bent lugs; provided with .16 oz. (5cc) of antioxidant, two grounding stickers, eight cage nut bonding studs and 24 #12-24 bonding nuts.	1
CGJ630UB	30 (.75)		1
CGJ640UB	40 (1.00)		1

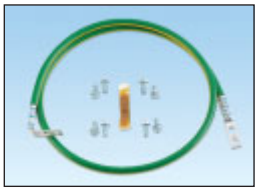
Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

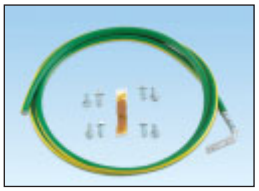
Equipment Jumper Kits

LISTED CERTIFIED

- Bond network equipment to grounding strip or grounding busbar
- Jumper kit available with both ends factory terminated to provide a bolt-on solution
- Jumper kit available with one end factory terminated to attach to the grounding strip or grounding busbar; free end accommodates unique equipment terminations
- Use jumpers with 90° bent lug, on grounding strip side, for high density grounding requirements up to one ground point per RU
- Use jumpers with 45° bent lugs, on grounding strip side, for improved cable management
- Use 24" jumpers when network equipment ground point is located near the grounding strip side of the rack or cabinet
- Use 36" jumpers when network equipment ground point is located away from the grounding strip side of the rack
- Engineered to comply with US and International grounding requirements



RGEJ1024PFY

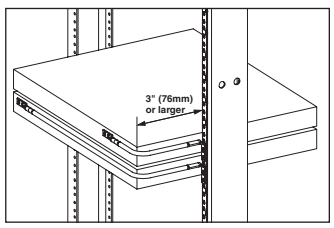


RGEJ1057PFY

Part Number	Length In. (m)	Angle	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
#6 AWG (16mm²) Equipment Jumper Factory Terminated on One End for Switches, Cabinets, and 4-Post Racks					
GJS660U NEW!	60 (1.52)	Straight	#6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAW-L.	1	10
GJS696U NEW!	96 (2.44)	Straight		1	10
#10 AWG (6mm²) Equipment Jumpers Factory Terminated on Both Ends					
RGEJ1024PHY	24 (.61)	45°	#10 AWG (6mm²) jumper; bent lug on grounding strip side to straight lug on equipment; provided with .16 oz. (5cc) of antioxidant and two each #12-24 x 1/2", M6 x 12mm, #10-32 x 1/2" and M5 x 12mm thread-forming screws.	1	10
RGEJ1024PFY	24 (.61)	90°		1	10
RGEJ1036PFY	36 (.91)	90°		1	10
#6 AWG (16mm²) Equipment Jumpers Factory Terminated on Both Ends					
RGEJ624PHY	24 (.61)	45°	#6 AWG (16mm²) jumper; bent lug on grounding strip side to straight lug on equipment; provided with .16 oz. (5cc) of antioxidant and two each #12-24 x 1/2", M6 x 12mm, #10-32 x 1/2" and M5 x 12mm thread-forming screws.	1	10
RGEJ624PFY	24 (.61)	90°		1	10
RGEJ636PFY	36 (.91)	90°		1	10
#10 AWG (6mm²) Equipment Jumper Factory Terminated on One End					
RGEJ1057PFY	57 (1.45)	90°	#10 AWG (6mm²) jumper; bent lug on grounding strip side; provided with .16 oz. (5cc) of antioxidant and two each #12-24 x 1/2", M6 x 12mm, #10-32 x 1/2" and M5 x 12mm thread-forming screws.	1	10
#6 AWG (16mm²) Equipment Jumper Factory Terminated on One End					
RGEJ657PFY	57 (1.45)	90°	#6 AWG (16mm²) jumper; bent lug on grounding strip side; provided with .16 oz. (5cc) of antioxidant and two each #12-24 x 1/2", M6 x 12mm, #10-32 x 1/2" and M5 x 12mm thread-forming screws.	1	10

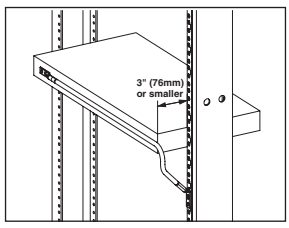
An equal number of M6 x 12mm thread-forming screws also provided in each kit.

How to Select the Appropriate Equipment Jumper



Select 24" equipment jumpers with 90° lugs when equipment grounding connection is close to the grounding strip.

Select 36" equipment jumpers with 90° lugs when equipment grounding connection is on the opposite side from the grounding strip.

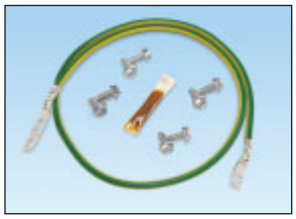


Select equipment jumpers with 45° lugs for lower density applications or shallow depth equipment to provide improved cable management.

Surge Suppressor Jumper Kit

LISTED CERTIFIED

- Bonds power or data line surge suppressor to grounding strip or grounding busbar
- Both ends factory terminated to provide a bolt-on solution
- Engineered to comply with US and International grounding requirements



Part Number	Part Description	Std. Pkg. Qty.
SSGK-1	#10 AWG (6mm²) jumper; 24" (.61m) length; factory terminated on both ends; one-hole lug on surge suppressor to two-hole lug on grounding strip/busbar side; provided with .16 oz. (5cc) of antioxidant and two each #12-24 x 1/2", M6 x 12mm, #10-32 x 1/2" and M5 x 12mm thread-forming screws.	1

NEW! Armored Cable Grounding Kit

- Provides a secure bond to the armor sheath on indoor and indoor/outdoor fiber optic cables at both cassette and enclosure ends
- Worm-gear design evenly distributes forces across the armor
- Made from steel and aluminum material is compatible with common armor for long term reliability
- Black insulating cover protects and hides the connection for an aesthetically pleasing work area
- Complies with industry requirements ensuring a high level of reliability and safety



Part Number	Part Description	Std. Pkg. Qty.
ACG24K	Crimped jumper wire assembly; 24" (609.6mm) length; LCC6-14, #10 mechanical clamp; provided with two each #12-24, M6 slotted hex head zinc-plated thread-forming screws, and black polypropylene terminal cover.	1

Telecommunication Equipment Bonding Conductor (TEBC) Kits

NEW!

- Bonds the rack or cabinet to the (TGB)
- Jumper kit available with both ends factory terminated to provide a bolt-on solution
- Jumper kit available with one end factory terminated to attach to the rack or cabinet; free end accommodates unique length requirements
- Engineered to comply with US and international grounding requirements



Pre-Terminated on Both Ends

Part Number	Length In.	Length (mm)	Angle	Part Description	Std. Pkg. Qty.
Jumpers Pre-Terminated on Both Ends					
GJ672UH	72	1.83	Straight and 45°	One 72" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	1
GJ696UH	96	2.44	Straight and 45°	One 96" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	1
GJ6120UH	120	3.05	Straight and 45°	One 120" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	1
GJ6144UH	144	3.66	Straight and 45°	One 144" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	1
GJ6168UH	168	4.27	Straight and 45°	One 168" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	1
GJ6192UH	192	4.88	Straight and 45°	One 192" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	1
GJ6216UH	216	5.49	Straight and 45°	One 216" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	1
GJ6240UH	240	6.10	Straight and 45°	One 240" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	1
GJ6264UH	264	6.71	Straight and 45°	One 264" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	1
GJ6288UH	288	7.32	Straight and 45°	One 288" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAWH-L and the other end with LCC6-14JAW-L.	1

Table continues on page M.22

Telecommunication Equipment Bonding Conductor (TEBC) Kits (continued)



Pre-Terminated on One End

Part Number	Length In.	Length (mm)	Angle	Part Description	Std. Pkg. Qty.
Jumpers Pre-Terminated on One End					
GJS6120U	120	3.05	Straight	One 120" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAW-L.	1
GJS6180U	180	4.57	Straight	One 180" length #6 AWG green wire with yellow horizontal stripe. Jumper is pre-terminated on one end with LCC6-14JAW-L.	1



Hardware for TEBC Kits

Part Number	Part Description	Std. Pkg. Qty.
Hardware for TEBC Kits		
HDW1/4-KT	Stainless steel mounting hardware for busbar; two 1/4-20 hex bolts, two 1/4-20 hex nuts, four 1/4 flat washers and two 1/4 Belleville compression washers. Mounting hardware for rack or cabinet; two #12-24 thread-forming screws and two M6 thread-forming screws.	1
HDW3/8-KT	Stainless steel mounting hardware for busbar; two 3/8-16 hex bolts, two 3/8-16 hex nuts, four 3/8 flat washers and two 3/8 Belleville compression washers. Mounting hardware for rack or cabinet; two #12-24 thread-forming screws and two M6 thread-forming screws.	1
HDW1/4-A-KT	Stainless steel mounting hardware for busbar; two 1/4-20 hex bolts, two 1/4-20 hex nuts, four 1/4 flat washers and two 1/4 Belleville compression washers. Mounting hardware for rack or cabinet; two #10-32 thread-forming screws and two M5 thread-forming screws.	1
HDW3/8-A-KT	Stainless steel mounting hardware for busbar; two 3/8-16 hex bolts, two 3/8-16 hex nuts, four 3/8 flat washers and two 3/8 Belleville compression washers. Mounting hardware for rack or cabinet; two #10-32 thread-forming screws and two M5 thread-forming screws.	1

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Enclosure Grounding Kit

LISTED CERTIFIED

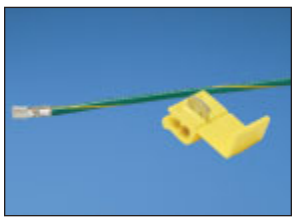
- Provides equipotential bonding and protection from static electricity for equipment housed in enclosures
- A discrete grounding point for each piece of equipment within the enclosure allows equipment to be easily added or moved without disturbing other grounding connections
- Anti-rotation design prevents one-hole lugs from loosening
- Grounding washer provides a high performance electrical bond, eliminating the need to manually remove paint
- Built-in ESD port provides a convenient docking station for ESD wrist strap
- Provides proper bonding of *PANZONE*® Active Wall Mount Enclosure PZAEWM3, see page E.5



Part Number	Part Description	Std. Pkg. Qty.
PZAEGK	One tin-plated copper bracket; 3.92" L x .56" W x .79" H (99.6mm x 14.2mm x 20.1mm); provided with four #12-24 screws, one each #10-32 and #10-24 hex nut, #10 split lock washer, grounding washer and ESD protection sticker.	1

Shielded Jack Module Grounding Kit

- Alternate method for grounding modules to another grounding wire in shielded applications



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CJSGK-XY	Kit used to ground enhanced *GIGA-TX*™ Style Shielded Jack Modules to another ground wire in shielded applications.	10	100

Electrostatic Discharge (ESD) Port Kits and Wrist Strap

- Accommodate standard ESD wrist strap 4mm plug
- Wrist strap provides rapid and continuous drain of electrostatic charge between a person and the surface that the wrist strap is bonded to, thus preventing damaging static discharge into equipment
- Can be mounted to front or back of rack or cabinet for convenient access
- Bent 45°, acts as a hook to hold wrist strap
- Two-hole configuration provides anti-rotation and prevents loss of bond
- Barrel permanently marked with the protective earth (ground) symbol
- Engineered to comply with US and International grounding requirements



RGESD2-1



RGESD2B-1



RGESDWS

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
ESD Port Kit for #12-24 or M6 Rail Fasteners			
RGESD2-1	Two-hole ESD port with 5/8" hole spacing; provided with an ESD protection sticker, .16 oz. (5cc) of antioxidant, and two each #12-24 x 1/2" and M6 x 12mm thread-forming screws.	1	20
ESD Port Kit for Cage Nut Rail Fasteners			
RGESD2B-1	Two-hole ESD port with 5/8" hole spacing; provided with an ESD protection sticker, .16 oz. (5cc) of antioxidant, two cage nut bonding studs and two #12-24 bonding nuts.	1	20
ESD Wrist Strap			
RGESDWS	Adjustable fabric ESD wrist strap with 6' coil cord, banana plug, 1 megohm resistor and 4mm snap.	1	—

ESD port must be attached to a grounded member.
ESD wrist strap sold separately.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Bonding Screws

- Patent pending screws create an electrical bond between painted patch panels and racks or cabinets
- Serrations on bottom of screw remove paint from patch panel, providing metal-to-metal contact
- Available in two color options to meet different application needs
- Thread-forming, provides a bond to the rack or cabinet by removing paint from threaded holes and minimizing metal shavings
- Permanently marked with the protective earth (ground) symbol and *PANDUIT* logo
- Easily installed with Phillips screwdriver



Part Number	Part Description	Std. Pkg. Qty.
RGTBSG-C	Green thread-forming bonding screw, #12-24 x 1/2".	100
RGTBSM6G-C	Green thread-forming bonding screw, M6 x 15mm.	100
RGTBS1032G-C	Green thread-forming bonding screw, #10-32 x 1/2".	100
RGTBSM5G-C	Green thread-forming bonding screw, M5 x 15mm.	100

Bonding Cage Nut

NEW!

- Creates an electrical bond between the mounting rails and equipment
- Conforms to EIA-310-D specifications for racks and cabinets
- Made from high carbon steel
- Easily installed with a Phillips, flat blade, or nut screwdriver



Part Number	Part Description	Std. Pkg. Qty.
CNB4K	Green bonding cage nut, #12-24 and green thread-forming grounding screw, #12-24 x 1/2".	1

Thread-Forming Screws

- Thread-forming, provide a bond to the rack or cabinet by removing paint from threaded holes and minimizing metal shavings
- Easily installed with 5/16" (8mm) socket head wrench or flat blade screwdriver



Part Number	Part Description	Std. Pkg. Qty.
RGTS-CY	Thread-forming grounding screw, #12-24 x 1/2".	100
RGTSM6-C	Thread-forming grounding screw, M6 x 12mm.	100
RGTS1032-C	Thread-forming grounding screw, #10-32 x 1/2".	100
RGTSM5-C	Thread-forming grounding screw, M5 x 12mm.	100

Paint Piercing Grounding Washer Kit

- Bonds frame members on bolt-together racks
- No paint scraping required
- Green color-coding to indicate bonding application
- Engineered to comply with US and International grounding requirements



Part Number	Part Description	Std. Pkg. Qty.
RGW-100-1Y	100 paint piercing bonding washers for 3/8" (M8) stud size; .875" (22.2mm) O.D.; provided with .16 oz. (5cc) of antioxidant.	1

PATENT PENDING Bonding Hardware Kits

- Patent pending bonding hardware kits incorporate paint piercing serrations to create a bond point between the rack or cabinet and painted patch panels, mounted equipment, servers, busbars and jumpers
- Thread-forming, provide a bond to the rack or cabinet by removing paint from holes and minimizing metal shavings
- Green color-coding to indicate bonding application



TRBSK



CGNBSK



BGN

Part Number	Part Description	Std. Pkg. Qty.
Bonding Stud Kits for Threaded Rail Fasteners		
TRBSK	Bonding stud kit for threaded #12-24 rail fasteners; includes 25 bonding studs and 50 bonding nuts.	1
TRBSM6K	Bonding stud kit for threaded M6 rail fasteners; includes 25 bonding studs and 50 bonding nuts.	1
Bonding Stud Kit for Cage Nut Rail Fasteners		
CGNBSK	Bonding stud kit for cage nut rail fasteners; includes 25 bonding studs and 50 bonding nuts.	1
Bonding Nuts		
BGN-C	Bonding nut for threaded #12-24, cage nut, and 1/4" thru-hole rail fasteners.	100
BGNM6-C	Bonding nut for threaded M6 rail fasteners.	100

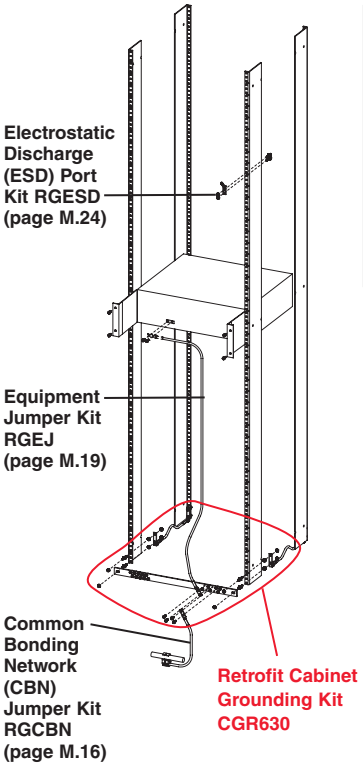
Order number of pieces required, in multiples of Standard Package Quantity.

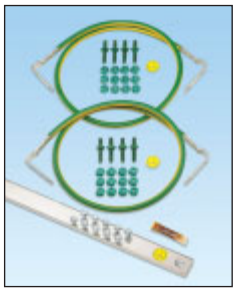
Prime items appear in **BOLD**.

Retrofit Cabinet Grounding Kits

LISTED CERTIFIED

- Provide a dedicated ground system to maintain system performance and protect network equipment when equipment is already installed
- Patent pending hardware incorporates paint piercing serrations to create a bond point between the cabinet rail, grounding busbar and lug; hardware never needs to be removed for new equipment installations
- Optimized for installation on 19" cabinets that meet EIA-310-D, with functioning equipment, and are deployed in the field
- Provides a complete system of matched components to save cost and labor
- Engineered to comply with US and International grounding requirements





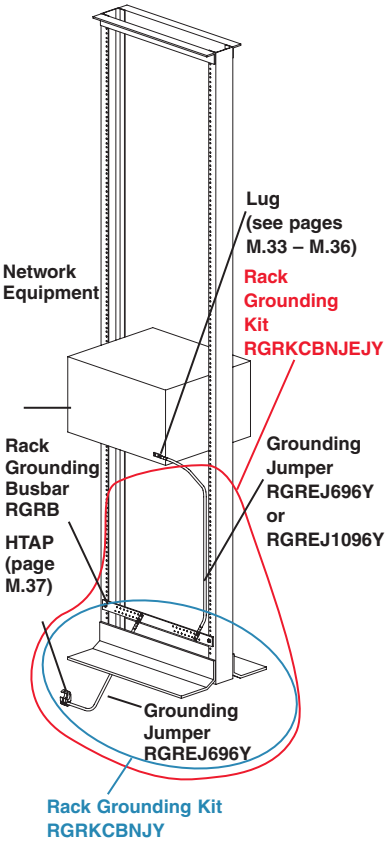
CGR630UB

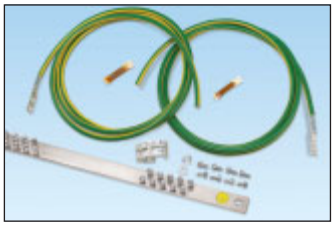
Part Number	Part Description	Std. Pkg. Qty.
CGR630U	Retrofit grounding kit for installation on cabinets with threaded #12-24 or M6 rail fasteners and rail depth up to 30" (.75m); includes one RGRB19U grounding busbar kit and one CGJ630U front to back rail jumper kit.	1
CGR630UB	Retrofit grounding kit for installation on cabinets with cage nut rail fasteners and rail depth up to 30" (.75m); includes one RGRB19U grounding busbar kit and one CGJ630UB front to back rail jumper kit.	1

Retrofit Rack Grounding Kits

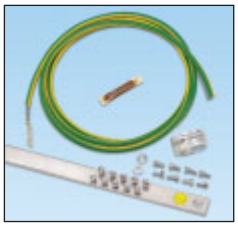
LISTED CERTIFIED

- Provide a dedicated ground system to maintain system performance and protect network equipment when equipment is already installed
- Optimized for installation on 19" racks that meet EIA-310-D, with functioning equipment, and are deployed in the field
- Provide a complete system of matched components that can be easily selected to save cost and labor
- Thread-forming screws eliminate the need to manually remove paint from the rack
- Engineered to comply with US and International grounding requirements





RGRKCBNJEJY



RGRKCBNJY

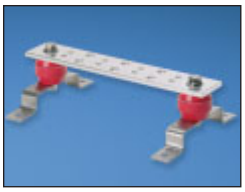
Part Number	Part Description	Std. Pkg. Qty.
Busbar and Jumper Kits		
RGRKCBNJEJY	Rack grounding kit to ground the rack and one piece of equipment; includes one RGRB19U busbar, one HTCT250-2-1 HTAP, and two RGREJ696Y grounding jumpers.	1
RGRKCBNJY	Rack grounding kit to ground the rack; includes one RGRB19U busbar, one HTCT250-2-1 HTAP, and one RGREJ696Y grounding jumper.	1
Busbar Kits		
RGRB19Y	Grounding busbar; 19" (483mm) length; tin-plated; fourteen holes arranged for flexibility in mounting; provided with two each #12-24 x 1/2" and M6 x 12mm thread-forming screws.	1
RGRB19U	Grounding busbar; 19" (483mm) length; tin-plated; twenty holes arranged for flexibility in mounting with twenty #12-24 x 1/2" hex head screws installed; mounting hole sets have 5/8" (15.9mm) spacing; provided with two each #12-24 x 1/2", M6 x 12mm thread-forming screws, and two #12 flat washers for mounting.	1
RGRB19CN	Grounding busbar; 19" (483mm) length; tin-plated; twenty holes arranged for flexibility in mounting with twenty #12-24 x 1/2" hex head screws installed; mounting hole sets have 5/8" (15.9mm) spacing; provided with two bonding cage nuts and four #12-24 bonding screws.	1
Equipment Jumper Kits		
RGREJ696Y	Grounding jumper; #6 AWG (16mm²); 96" (2.44m) length; one end factory terminated to lug; provided with .16 oz. (5cc) of antioxidant and two each #12-24 x 1/2", M6 x 12mm, #10-32 x 1/2" and M5 x 12mm thread-forming screws.	1
RGREJ1096Y	Grounding jumper; #10 AWG (6mm²); 96" (2.44m) length; one end factory terminated to lug; provided with .16 oz. (5cc) of antioxidant and two each #12-24 x 1/2", M6 x 12mm, #10-32 x 1/2" and M5 x 12mm thread-forming screws.	1

Order number of pieces required, in multiples of Standard Package Quantity.

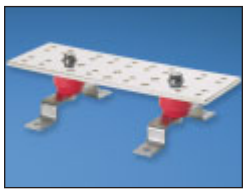
Prime items appear in **BOLD**.

BICSI/J-STD-607-A Telecommunications Grounding Busbars

- Meet BICSI and J-STD-607-A requirements for network systems grounding applications
- Made of high conductivity copper and tin-plated to inhibit corrosion
- Come pre-assembled with brackets and insulators attached for quick installation
- Use *PANDUIT* component labels, sold separately, to identify busbars to meet TIA/EIA-606-A, see chart below



TGB



TMGB



Part Number	Bar Size	No. of Mounting Positions		Std. Pkg. Qty.
		1/4" Stud Hole with 5/8" Hole Spacing	3/8" Stud Hole with 1" Hole Spacing	
Telecommunications Grounding Busbars (TGB)				
GB2B0304TPI-1	1/4" x 2" x 10"	4	3	1
GB2B0306TPI-1	1/4" x 2" x 12"	6	3	1
GB2B0312TPI-1	1/4" x 2" x 20"	12	3	1
GB2B0314TPI-1	1/4" x 2" x 24"	14	5	1
Telecommunications Main Grounding Busbars (TMGB)				
GB4B0612TPI-1	1/4" x 4" x 12"	12	6	1
GB4B0624TPI-1	1/4" x 4" x 20"	24	6	1
GB4B0632TPI-1	1/4" x 4" x 24"	28	10	1

Telecommunications Grounding and Bonding Conductor Label Kit

Part Number	Part Description	Std. Pkg. Qty.
LTYK	Label kit includes printed tag and one flame retardant cable tie.	1

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Component Labels for BICSI/J-STD-607-A Telecommunications Grounding Busbars



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Telecommunications Grounding Busbar Part Number	Laser/Ink Jet Desktop Printer Label	TDP43MY Thermal Transfer Desktop Printer Label	*PANTHER*™ LS8E Hand-Held Printer Label	*COUGAR*™ LS9 Hand-Held Printer Label
All GB2B and GB4B Parts	C200X100FJJ	C200X100YPT	C200X100FJC	T100X000VPC-BK

NEW! c UL us NEMA Hole Pattern Grounding Busbars

- Provided with standard NEMA hole pattern spacing
- Made of high conductivity copper and tin-plated to inhibit corrosion
- Come pre-assembled with brackets and insulators attached for quick installation
- Insulators provide 600 V of insulation



Part Number	Bar Size	No. of Mounting Positions		Std. Pkg. Qty.
		1/2" Stud Hole with 1 3/4" Hole Spacing	7/16" Stud Hole with 5/8" Hole Spacing	
GB4N0007TPI-1	1/4" x 4" x 12"	7	—	1
GB4N0016TPI-1	1/4" x 4" x 24"	16	—	1
GB4N0024TPI-1	1/4" x 4" x 36"	—	—	1
GB4N0026TPI-1	1/4" x 4" x 48"	26	—	1
GB4N0034TPI-1	1/4" x 4" x 60"	34	—	1

NEW! c UL us Grounding Busbar 1 Inch Hole Spacings

- Provided with 1 inch hole D pattern spacing
- Made of high conductivity copper and tin-plated to inhibit corrosion
- Come pre-assembled with brackets and insulators attached for quick installation
- Insulators provide 600 V of insulation



Part Number	Bar Size	No. of Mounting Positions		Std. Pkg. Qty.
		1/2" Stud Hole with 1 3/4" Hole Spacing	7/16" Stud Hole with 1" Hole Spacing	
GB2D0008TPI-1	1/4" x 2" x 12"	—	8	1
GB2D0021TPI-1	1/4" x 2" x 24"	—	21	1
GB2D0033TPI-1	1/4" x 2" x 36"	—	33	1
GB2D0044TPI-1	1/4" x 2" x 48"	—	44	1
GB2D0056TPI-1	1/4" x 2" x 60"	—	56	1

Busbar Type	Busbar Pattern
BISCI	B
GB2D...series	D
NEMA	N

See pages M.33 – M.36 for Lug information

Universal Beam Grounding Clamp

- Universal, fits on a wide range of standard (angled) and wide flange (parallel) structural steel beams
- Provide a mounting pad suitable for a two-hole compression lug
- Install quickly and easily with standard 1/4" key hex wrench tooling
- UL 467 Listed and CSA 22.2 Certified for grounding and bonding suitable for direct burial in earth or concrete
- Comply with vibration tests per MIL-STD-202G (METHOD 201A)
- For the complete line of *StructuredGround*™ Direct Burial Compression Grounding System, visit www.panduit.com



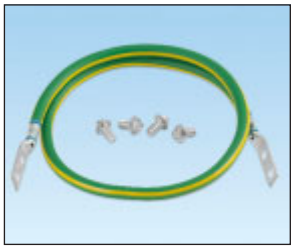
Part Number	Copper Conductor Size AWG (mm²)	Flange Thickness In. (mm)	Hole Spacing (In.)	Hole Spacing (mm)	Thread size	Figure Dimensions In. (mm)			Std. Pkg. Qty.
						L	W	H	
GUBC500-6	#6 – 500 (16 – 240)	.250 – .675 (6.3 – 17.1)	1.75	44.4	1/2 – 13	3.15	2.13	2.50	1

Auxiliary Cable Bracket and Jumpers

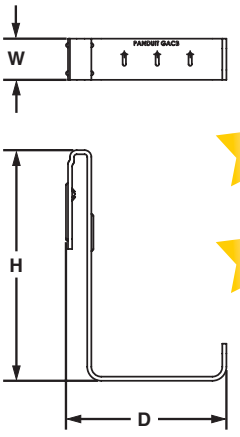
- Bonds ladder rack sections together without drilling holes in the ladder rack
- Supports grounding conductors in the telecommunications room, allows separation of grounding conductors from other cables on the ladder rack
- Holds up to four conductors in sizes up to 750 kcmil
- Bonds all 1 1/2" and 2" ladder rack rails
- Paint piercing teeth provide electrical continuity between ladder rack members while minimizing debris
- Front and back mounting screw options allow easy installation and visual inspection



GACB



GACBJ618U



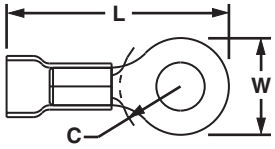
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GACB-1	Auxiliary cable bracket; 1.25" (31.8mm) width; 7.00" (177.8mm) height; 4.87" (123.7mm) depth; provided with one mounting screw.	1	10
GACBJ68U NEW!	Auxiliary cable bracket jumper for bonding ladder rack sections; #6 AWG (16mm²); 8.0" (203mm) length; factory terminated on both ends with straight, two-hole, long barrel compression lugs; provided with .16 oz. (5cc) of antioxidant and four mounting screws.	1	—
GACBJ612U NEW!	Auxiliary cable bracket jumper for bonding ladder rack sections; #6 AWG (16mm²); 12.0" (305mm) length; factory terminated on both ends with straight, two-hole, long barrel compression lugs; provided with .16 oz. (5cc) of antioxidant and four mounting screws.	1	—
GACBJ618U	Auxiliary cable bracket jumper for bonding ladder rack sections; #6 AWG (16mm²); 18.0" (457mm) length; factory terminated on both ends with straight, two-hole, long barrel compression lugs; provided with .16 oz. (5cc) of antioxidant and four mounting screws.	1	—

Ring Terminal, Vinyl Expanded Insulation

LISTED CERTIFIED

- Expanded wire entry designed to accommodate wire with a larger insulation thickness
- Ring tongue design assures a secure connection in high vibration applications
- Insulation support helps to prevent wire damage in bending applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- UL Flammability UL 94V-0, maximum insulation temperature 221°F (105°C)
- Internal barrel serrations assure good wire contact and maximum tensile strength
- UL and CSA rated up 600 V per UL 486





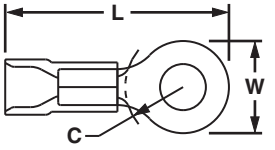
Part Number	Wire Range	Color Code	Stock Thickness	Max. Ins.	Stud Size	Figure Dimensions (In.) L	W	C	*PANDUIT* Crimping Tool	Std. Pkg. Qty.**	Std. Ctn. Qty.
PV14-6RX-C	16 – 14 AWG	Blue	.03	.200	#6	.96	.31	.25	CT-100A‡, CT-600-A‡, CT-1550‡, CT-1551‡, CT-2500‡	100	500
PV14-8RX-C			.03	.200	#8	.96	.31	.25		100	500
PV14-10RX-C			.03	.200	#10	.96	.31	.25		100	500
PV14-14RX-C			.03	.200	1/4"	1.16	.46	.37		100	500
PV10-6RX-L	12 – 10 AWG	Yellow	.04	.250	#6	1.10	.31	.30	CT-100A‡, CT-600-A‡, CT-1550‡, CT-1551‡, CT-2500‡	50	500
PV10-8RX-L			.04	.250	#8	1.10	.31	.30		50	500
PV10-10RX-L			.04	.250	#10	1.10	.31	.30		50	500
PV10-14RX-L			.04	.250	1/4"	1.29	.52	.39		50	500

‡UL and CSA approved tooling/product combinations. For crimping tool information, see pages M.42 and M.43.
**To order in bulk, replace -C in the part number with -M for a bulk package of 1000 and replace -L with -D for a bulk package of 500.

Metric Ring Terminal, Vinyl Insulated – Funnel Entry

- Insulation support helps to prevent wire damage in bending applications
- Brazed seam protects terminal barrel from splitting during the crimp process
- UL Flammability UL94V-0, maximum insulation temperature 221°F (105°C)
- Internal barrel serrations assure good wire contact and maximum tensile strength





Part Number	Wire Range	Color Code	Max. Ins.	Stud Size	Figure Dimensions (mm) L	W	C	*PANDUIT* Crimping Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
PMV1-5RB-CY	0.5 – 1.5	Red	4.01	M5	23.1	8.9	7.4	CT-1550, CT-2500	100	500
PMV1-6RB-CY			4.01	M6	28.2	10.9	10.7		100	500
PMV2-5RB-C	1.5 – 2.5	Blue	4.70	M5	23.8	8.9	6.4	CT-1550, CT-2500	100	500
PMV2-6RB-C			4.70	M6	25.7	10.9	9.7		100	500
PMV6-5R-L	2.5 – 6.0	Yellow	6.10	M5	27.1	9.5	7.9	CT-1550, CT-2500	50	250
PMV6-6R-L			6.10	M6	30.3	10.9	9.7		50	250
PMV6-8R-L			6.10	M8	31.4	13.2	9.7		50	250

For crimping tool information, see page M.43.

LISTED CERTIFIED With AWG

Code Conductor, Two-Hole, Long Barrel with Window Lug

For Use with Stranded Copper Conductors



- Meets J-STD-607-A requirements for network systems grounding applications
- **Tested by Telcordia – meets NEBS Level 3 with AWG conductor**
- Requires crimping tools and dies, see pages M.43-M.45
- UL Listed and CSA Certified with AWG conductor for use up to 35 KV** and temperature rated 90°C when crimped with *PANDUIT* and specified competitor crimping tools and dies
- Color-coded barrels marked with *PANDUIT* and specified competitor die index numbers for proper crimp die selection
- Long barrel maximizes number of crimps and provides premium wire pull-out strength and electrical performance
- Inspection window to visually assure full conductor insertion
- Tin-plated to inhibit corrosion
- Available with NEMA hole sizes and spacing

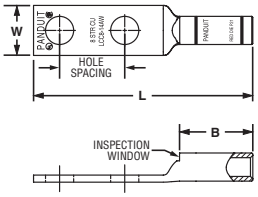


Figure 1: Straight

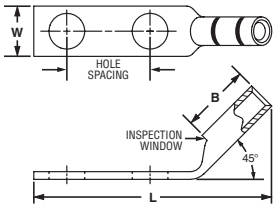


Figure 2: 45° Bent

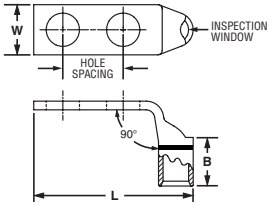


Figure 3: 90° Bent

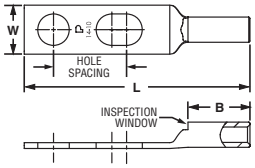


Figure 4: Slotted, Straight

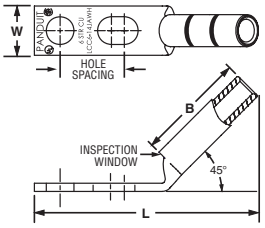


Figure 5: Slotted, 45° Bent

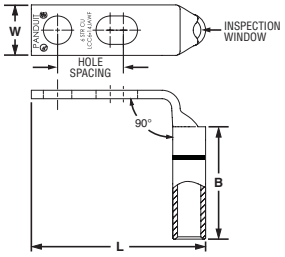


Figure 6: Slotted, 90° Bent

Part Number	Figure No.	Copper Conductor Size	Stud Hole Size In. (mm)	Stud Hole Spacing In. (mm)	Figure Dimensions In. (mm) W	B	L	*PANDUIT* Crimping Tool‡	*PANDUIT* Die Color and Die No.‡	Wire Strip Length In. (mm)	Busbar Pattern^	Std. Pkg. Qty.
LCC10-14JAW-L*	4	#14 – #10 AWG STR, #12 – #10 AWG SOL (2.5 – 6mm² STR, 4 – 6mm² SOL)	1/4 (M6)	.50 – .63 (12.7 – 16.0)	.42 (10.7)	.53 (13.5)	1.93 (49.0)	CT-100A, CT-1570	—	9/16 (14)	B	50
LCC10-14JAWH-L*	5		1/4 (M6)	.50 – .63 (12.7 – 16.0)	.42 (10.7)	.53 (13.5)	1.78 (45.2)				B	50
LCC10-14JAWF-L*	6		1/4 (M6)	.50 – .63 (12.7 – 16.0)	.42 (10.7)	.53 (13.5)	1.56 (39.6)				B	50
LCC10-14AW-L*	1		1/4 (M6)	.63 (16.0)	.42 (10.7)	.53 (13.5)	1.93 (49.0)				B	50
LCC8-10AW-L	1	#8 AWG (10mm²)	#10 (M4)	.63 (16.0)	.41 (10.4)	.70 (17.8)	2.01 (51.3)	CT-1700, CT-930, CT-2931, CT-2931/E	Red P21	3/4 (19)	B	50
LCC8-14AWH-L	2		1/4 (M6)	.63 (16.0)	.48 (12.2)	.70 (17.8)	1.91 (48.5)				B	50
LCC8-14AWF-L	3		1/4 (M6)	.63 (16.0)	.48 (12.2)	.70 (17.8)	1.61 (40.9)				B	50
LCC8-38DW-L	1		3/8 (M8)	1.00 (25.4)	.60 (15.2)	.70 (17.8)	2.70 (68.6)				B, D	50

‡See pages M.46 and M.47 for *PANDUIT* and competitor tool and die information.
*Not tested to NEBS Level 3 requirements.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^See page M.30 for busbar patterns.
◆NEMA hole sizes and spacing.

Table continues on page M.34

Code Conductor, Two-Hole, Long Barrel with Window Lug (continued)

LISTED CERTIFIED With AWG

Part Number	Figure No.	Copper Conductor Size	Stud Hole Size In. (mm)	Stud Hole Spacing In. (mm)	Figure Dimensions In. (mm) W	B	L	*PANDUIT* Crimping Tool‡	*PANDUIT* Die Color and Die No.‡	Wire Strip Length In. (mm)	Busbar Pattern^	Std. Pkg. Qty.
LCC6-10ABW-L	4	#6 AWG (16mm²)	#10 (M4)	.63 – .75 (16.0 – 19.1)	.46 (11.7)	1.07 (27.2)	2.52 (64.0)	CT-1700, CT-930, CT-2931, CT-2931/E	Blue P24	1 1/8 (29)	B	50
LCC6-14JAW-L	4		1/4 (M6)	.50 – .63 (12.7 – 16.0)	.48 (12.2)	1.07 (27.2)	2.49 (63.2)				B	50
LCC6-14JAWH-L	5		1/4 (M6)	.50 – .63 (12.7 – 16.0)	.48 (12.2)	1.07 (27.2)	2.08 (52.8)				B	50
LCC6-14JAWF-L	6		1/4 (M6)	.50 – .63 (12.7 – 16.0)	.48 (12.2)	1.07 (27.2)	1.66 (42.2)				B	50
LCC6-14AW-L	1		1/4 (M6)	.63 (16.0)	.48 (12.2)	1.07 (27.2)	2.49 (63.2)				B	50
LCC6-38DW-L	1		3/8 (M8)	1.00 (25.4)	.62 (15.7)	1.07 (27.2)	3.08 (78.2)				B, D	50
LCC6-12W-L	1		1/2 (M12)	1.75 (44.5)	.75 (19.0)	1.13 (28.7)	5.00 (127.0)			1 3/16 (30)	N	50
LCC4-14AW-L	1	#4 – #3 AWG STR, #2 AWG SOL (25mm² STR)	1/4 (M6)	.63 (16)	.55 (14.0)	1.05 (26.7)	2.50 (63.5)	CT-1700, CT-930, CT-2931, CT-2931/E	Gray P29	1 1/8 (29)	B	50
LCC4-38DW-L	1		3/8 (M8)	1.00 (25.4)	.62 (15.7)	1.05 (26.7)	3.09 (78.5)				B, D	50
LCC4-12W-L	1		1/2 (M12)	1.75 (44.5)	.75 (19.1)	1.13 (28.7)	5.06 (128.5)			1 3/16 (30)	N	50
LCC2-14AW-Q	1	#2 AWG (35mm²)	1/4 (M6)	.63 (16.0)	.60 (15.2)	1.16 (29.5)	2.67 (67.8)	CT-1700, CT-930, CT-2931, CT-2931/E	Brown P33	1 1/4 (32)	B	25
LCC2-38DW-Q	1		3/8 (M8)	1.00 (25.4)	.66 (16.8)	1.16 (29.5)	3.24 (82.3)				B, D	25
LCC2-12W-Q	1		1/2 (M12)	1.75 (44.5)	.75 (19.1)	1.16 (29.5)	4.41 (112.0)				N	25
LCC1/0-14AW-X	1	1/0 AWG (50mm²)	1/4 (M6)	.63 (16.0)	.76 (19.3)	1.44 (36.6)	3.07 (78.0)	CT-930, CT-2931, CT-2931/E	Pink P42	1 1/2 (38)	B	10
LCC1/0-38DW-X	1		3/8 (M8)	1.00 (25.4)	.76 (19.3)	1.44 (36.6)	3.57 (90.7)				B, D	10
LCC1/0-12W-X	1		1/2 (M12)	1.75 (44.5)	.80 (20.3)	1.44 (36.6)	4.74 (120.4)				N	10
LCC2/0-14AW-X	1	2/0 AWG (70mm²)	1/4 (M6)	.63 (16.0)	.85 (21.6)	1.50 (38.1)	3.23 (82.0)	CT-930, CT-2931, CT-2931/E	Black P45	1 9/16 (40)	B	10
LCC2/0-38DW-X	1		3/8 (M8)	1.00 (25.4)	.85 (21.6)	1.50 (38.1)	3.67 (93.2)				B, D	10
LCC2/0-12W-X	1		1/2 (M12)	1.75 (44.5)	.85 (21.6)	1.50 (38.1)	4.83 (122.7)				N	10
LCC3/0-38DW-X	1	3/0 AWG (95mm²)	3/8 (M8)	1.00 (25.4)	.96 (24.4)	1.50 (38.1)	3.70 (94.0)	CT-930, CT-2931, CT-2931/E	Orange P50	1 9/16 (40)	B, D	10
LCC3/0-12W-X	1		1/2 (M12)	1.75 (44.5)	.96 (24.4)	1.50 (38.1)	4.87 (123.7)				N	10
LCC4/0-38DW-X	1	4/0 AWG (95mm²)	3/8 (M8)	1.00 (25.4)	1.06 (26.9)	1.56 (39.6)	3.81 (96.8)	CT-930, CT-2931, CT-2931/E	Purple P54	1 5/8 (41)	N	10
◆ **LCC4/0-12W-X**	1		1/2 (M12)	1.75 (44.5)	.96 (24.4)	1.56 (39.6)	3.81 (96.8)				N	10
LCC250-38DW-X	1	250 kcmil (120mm²)	3/8 (M8)	1.00 (25.4)	1.17 (29.7)	1.61 (40.9)	3.89 (98.8)	CT-930, CT-2931, CT-2931/E	Yellow P62	1 11/16 (43)	B, D	10
◆ **LCC250-12W-X**	1		1/2 (M12)	1.75 (44.5)	1.17 (29.7)	1.61 (40.9)	4.12 (104.6)				N	10

‡See pages M.46 and M.47 for *PANDUIT* and competitor tool and die information.
*Not tested to NEBS Level 3 requirements.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^See page M.30 for busbar patterns.
◆NEMA hole sizes and spacing.

Prime items appear in **BOLD**.

c UL us LISTED CSA CERTIFIED With AWG

Flex Conductor, Two-Hole, Long Barrel with Window Lug

For Use with Flexible, Extra-Flexible, and Code Stranded Copper Conductors



- Meets J-STD-607-A requirements for network systems grounding applications
- Requires crimping tools and dies, see pages M.43-M.45
- UL Listed and CSA Certified with AWG conductor for use up to 35 KV** and temperature rated 90°C when crimped with *PANDUIT* and specified competitor crimping tools and dies
- Color-coded barrels marked with *PANDUIT* and specified competitor die index numbers for proper crimp die selection
- Can be used with code conductor and flex conductor class: G,H,I,K,M and Diesel Locomotive
- Long barrel maximizes number of crimps and provides premium wire pull-out strength and electrical performance
- Inspection window to visually assure full conductor insertion
- Generously beveled wire entry prevents bent back strands when inserting conductor into barrel
- Tin-plated to inhibit corrosion
- Available with NEMA hole sizes and spacing

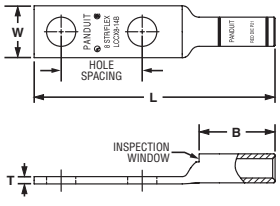


Figure 1: Straight

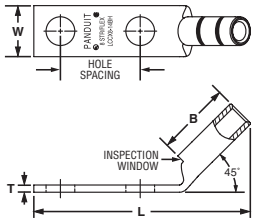


Figure 2: 45° Bent

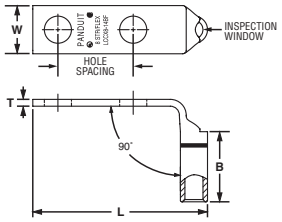


Figure 3: 90° Bent

Part Number	Fig. No.	Flex Conductor Size: Class G,H, I, K, M	Flex Conductor Size: Diesel Locomotive	Flex Conductor Size: Flex Metric	Code Conductor Size	Stud Hole Size In. (mm)	Stud Hole Spacing In. (mm)	Figure Dimensions In. (mm): W	Figure Dimensions In. (mm): B	Figure Dimensions In. (mm): L	*PANDUIT* Crimping Tool‡	*PANDUIT* Die Color and Die No.‡	Wire Strip Length In. (mm)	Busbar Pattern^	Std. Pkg. Qty.
LCCX8-14A-L	1	#8 AWG	#8 AWG	10mm²	#8 AWG (10mm²)	1/4 (M6)	.63 (16.0)	.48 (12.2)	.70 (17.8)	2.10 (53.3)	CT-1700, CT-930, CT-2931, CT-2931/E	Red P21	3/4 (19)	B	50
LCCX8-14AH-L	2					1/4 (M6)	.63 (16.0)	.48 (12.2)	.70 (17.8)	1.91 (48.5)					50
LCCX8-14AF-L	3					1/4 (M6)	.63 (16.0)	.48 (12.2)	.70 (17.8)	1.62 (41.2)					50
LCCX8-38D-L	1					3/8 (M8)	1.00 (25.4)	.60 (15.2)	.70 (17.8)	2.70 (68.6)				B, D	50
LCCX6-14A-L	1	#6 AWG	#6 AWG	16mm²	#6 AWG (16mm²)	1/4 (M6)	.63 (16.0)	.48 (12.2)	1.07 (27.2)	2.49 (63.3)	CT-1700, CT-930, CT-2931, CT-2931/E	Blue P24	1 1/8 (29)	B	50
LCCX6-14AH-L	2					1/4 (M6)	.63 (16.0)	.48 (12.2)	1.07 (27.2)	2.18 (55.4)					50
LCCX6-14AF-L	3					1/4 (M6)	.63 (16.0)	.48 (12.2)	1.07 (27.2)	1.66 (42.2)					50
LCCX6-38D-L	1					3/8 (M8)	1.00 (25.4)	.62 (15.7)	1.07 (27.2)	3.08 (78.2)				B, D	50

‡See pages M.48 and M.49 for *PANDUIT* and competitor tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^See page M.30 for busbar patterns.
◆NEMA hole sizes and spacing.

Table continues on page M.36

c UL us LISTED CERTIFIED With AWG

Flex Conductor, Two-Hole, Long Barrel with Window Lug (continued)

Part Number	Fig. No.	Flex Conductor Size: Class G,H, I, K, M	Flex Conductor Size: Diesel Locomotive	Flex Conductor Size: Flex Metric	Code Conductor Size	Stud Hole Size In. (mm)	Stud Hole Spacing In. (mm)	Figure Dimensions In. (mm): W	Figure Dimensions In. (mm): B	Figure Dimensions In. (mm): L	*PANDUIT* Crimping Tool‡	*PANDUIT* Die Color and Die No.‡	Wire Strip Length In. (mm)	Busbar Pattern^	Std. Pkg. Qty.
LCCX4-14A-L	1	#4 AWG	#5, #4, #3 AWG	25mm²	#4 AWG (25mm²)	1/4 (M6)	.63 (16.0)	.55 (14.0)	1.05 (26.7)	2.49 (63.3)	CT-1700, CT-930, CT-2931, CT-2931/E	Gray P29	1 1/8 (29)	B	50
LCCX4-38D-L	1					3/8 (M8)	1.00 (25.4)	.62 (15.7)	1.05 (26.7)	3.09 (78.5)				B, D	50
LCCX2-14A-E	1	#2 AWG	#2 AWG	35mm²	#2 AWG (35mm²)	1/4 (M6)	.63 (16.0)	.70 (17.8)	1.36 (34.5)	2.89 (73.4)	CT-1700, CT-930, CT-2931, CT-2931/E	Brown P33	1 7/16 (37)	B	20
LCCX2-38D-E	1					3/8 (M8)	1.00 (25.4)	.70 (17.8)	1.36 (34.5)	3.46 (87.9)				B, D	20
LCCX2-12-E	1					1/2 (M12)	1.75 (44.5)	.75 (19.1)	1.36 (34.5)	4.63 (117.6)				N	20
LCCX1/0-14A-X	1	1/0 AWG	1/0 AWG	50mm²	1/0 AWG (50mm²)	1/4 (M6)	.63 (16.0)	.85 (21.6)	1.50 (38.1)	3.23 (82.0)	CT-930, CT-2931, CT-2931/E	Pink P42	1 9/16 (40)	B	10
LCCX1/0-38D-X	1					3/8 (M8)	1.00 (25.4)	.85 (21.6)	1.50 (38.1)	3.67 (93.2)				B, D	10
LCCX1/0-12-X	1					1/2 (M12)	1.75 (44.5)	.85 (21.6)	1.50 (38.1)	4.83 (122.7)				N	10
LCCX2/0-14A-X	1	2/0 AWG	2/0 AWG	70mm²	2/0 AWG (70mm²)	1/4 (M6)	.63 (16.0)	.96 (24.4)	1.50 (38.1)	3.27 (83.1)	CT-930, CT-2931, CT-2931/E	Black P45	1 9/16 (40)	B	10
LCCX2/0-38D-X	1					3/8 (M8)	1.00 (25.4)	.96 (24.4)	1.50 (38.1)	3.70 (94.0)				B, D	10
LCCX2/0-12-X	1					1/2 (M12)	1.75 (25.4)	.96 (24.4)	1.50 (38.1)	4.87 (123.7)				N	10
LCCX3/0-38D-X	1	3/0 AWG	3/0 AWG	95mm²	3/0 AWG (95mm²)	3/8 (M8)	1.00 (25.4)	1.06 (26.9)	1.56 (39.6)	3.81 (96.8)	CT-930, CT-2931, CT-2931/E	Orange P50	1 5/8 (41)	B, D	10
LCCX4/0-38D-X	1	4/0 AWG	4/0 AWG	120mm²	4/0 AWG (120mm²)	3/8 (M8)	1.00 (25.4)	1.19 (30.2)	2.24 (56.9)	4.55 (115.6)	CT-930, CT-2931, CT-2931/E	Purple P54	2 5/16 (59)	B, D	10
◆ **LCCX4/0-12-X**	1				4/0 AWG (95mm²)	1/2 (M12)	1.75 (44.5)	1.19 (30.2)	2.24 (56.9)	5.73 (145.5)				N	10
LCCX250-38D-X	1	250 kcmil	262.6 kcmil	—	—	3/8 (M8)	1.00 (25.4)	1.28 (32.5)	2.24 (56.9)	4.59 (116.6)	CT-930, CT-2931, CT-2931/E	Yellow P62	2 5/16 (59)	B, D	10

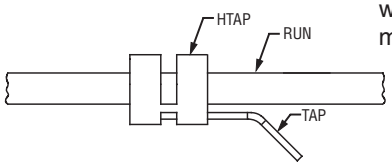
‡See pages M.48 and M.49 for *PANDUIT* and competitor tool and die information.
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 V.
^See page M.30 for busbar patterns.
◆NEMA hole sizes and spacing.

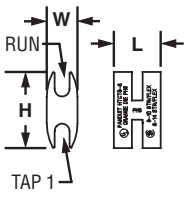
Prime items appear in **BOLD**.

Code/Flex Conductor HTAP

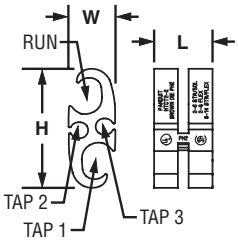


- Used to tap into continuous conductors as a splice or pigtailing
- Each HTAP terminates a wide range of conductor sizes and combinations of code and flex conductors Class G, H, I and Locomotive to suit a variety of applications
- Slotted design allows quick and easy assembly of conductor to HTAP using three *PANDUIT* 94V-0 cable ties included
- Tap grooves are separated from one another allowing them to function independently so HTAP can be used with a single or multiple taps providing maximum design and installation flexibility
- Color coded and marked with *PANDUIT* die index numbers for proper crimp die selection
- Requires crimping tools and dies, see pages M.43 – M.45
- UL Listed and CSA Certified with AWG conductor for applications up to 600 V when crimped with *PANDUIT* and specified competitor crimping tools and *PANDUIT* crimping dies
- Tin plated to inhibit corrosion

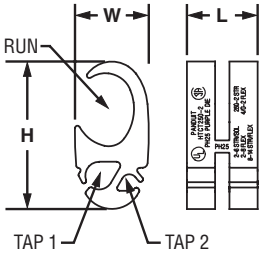




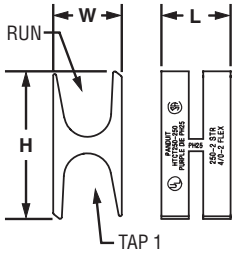
HTCT6-6



HTCT2-2



HTCT250-2



HTCT250-250

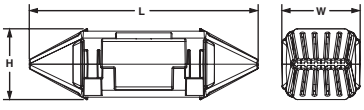
Part Number	Copper Conductor Size Range					Figure Dimensions In. (mm)			*PANDUIT* Crimping Tool‡	*PANDUIT* Die Color and Die No.‡	Wire Strip Length In. (mm)	Std. Pkg. Qty.
	Wire Strand Type	Run	Tap 1	Tap 2	Tap 3	L	W	H				
HTCT6-6-1	Code	#6 – #10 AWG (10 – 6mm²)	#6 – #14 AWG (10 – 2.5mm²)	—	—	.61 (15.5)	.40 (10.2)	.99 (25.1)	CT-930, CT-2931, CT-2931/E	Orange PH6	11/16 (18)	1
	Flex	#6 – #10 AWG (10 – 6mm²)	#6 – #14 AWG (10 – 2.5mm²)	—	—							
HTCT2-2-1	Code	#2 – #6 AWG STR/SOL (25 – 16mm²)	#2 – #6 AWG STR/SOL (25 – 16mm²)	#8 – #14 AWG (6 – 2.5mm²)	#8 – #14 AWG (6 – 2.5mm²)	.76 (19.3)	.61 (15.5)	1.55 (39.4)	CT-930, CT-2931, CT-2931/E	Brown PH2	13/16 (21)	1
	Flex	#2 – #8 AWG (25 – 10mm²)	#2 – #8 AWG (25 – 10mm²)	#8 – #14 AWG (6 – 2.5mm²)	#8 – #14 AWG (6 – 2.5mm²)							
HTCT250-2-1	Code	250 kcmil – #2 AWG (120 – 35mm²)	#2 – #6 AWG STR/SOL (25 – 16mm²)	#8 – #14 AWG (6 – 2.5mm²)	—	.92 (23.4)	.96 (24.4)	1.92 (48.8)	CT-930, CT-2931, CT-2931/E	Purple PH25	1 (25)	1
	Flex	4/0 – #2 AWG (95 – 35mm²)	#2 – #8 AWG (25 – 10mm²)	#8 – #14 AWG (6 – 2.5mm²)	—							
HTCT250-250-1	Code	250 kcmil – #2 AWG (120 – 35mm²)	250 kcmil – #2 AWG (120 – 35mm²)	—	—	.90 (22.9)	.89 (22.6)	1.92 (48.8)	CT-930, CT-2931, CT-2931/E	Purple PH25	1 (25)	1
	Flex	4/0 – #2 AWG (95 – 35mm²)	4/0 – #2 AWG (95 – 35mm²)	—	—							

‡See page M.52 for *PANDUIT* and competitor tool and die information.

Clear Covers for HTCT HTAPs

- Made of high impact plastic to provide high impact strength and 360° inspections of crimped connection to assure the crimp is complete and the correct die was used
- Incorporate dual self-latching spring loaded latches and supplied with two *PANDUIT* UL 94V-0 cable ties to allow for easy snap-on assembly and ensure covers are secured
- Low profile design minimizes space requirements
- Each cover half supports installation information labels inside plastic retainer strips to allow labels to be viewed on either side of cover and to protect labels from being removed
- Incorporate molded in flash barriers which encompass the HTAP installation providing protection against electrical flash over
- UL 94V-0 flame rating and oxygen index of 28 providing self-extinguishing, flame retardant properties
- Part number, voltage rating, temperature rating and HTCT part number molded into cover for easy identification
- Flexible fingers located at each end of cover prevent foreign objects from entering cover and are made from ductile plastic material that allows easy installation and will not damage conductor insulation





Shown Assembled

Part Number	Use With HTAP Part Number	Figure Dimensions In. (mm)			Std. Pkg. Qty.
		L	W	H	
CLRCVR1-1	HTCT6-6	4.48 (113.8)	1.41 (35.8)	1.20 (30.5)	1
CLRCVR2-1	HTCT2-2	5.10 (129.5)	1.66 (42.2)	1.40 (35.6)	1
CLRCVR3-1	HTCT250-2, HTCT250-250	5.35 (135.9)	2.16 (54.9)	1.40 (35.6)	1

Labels for clear covers are sold separately and are printed with the *PANDUIT* LS8E Printer, see page O.2.

Code/Flex Conductor HTAP Kits



Part Number	Components		Std. Pkg. Qty.
	HTAP Part No.	Clear Cover Part No.	
HTWC6-6-1	HTCT6-6-1	CLRCVR1-1	1
HTWC2-2-1	HTCT2-2-1	CLRCVR2-1	1
HTWC250-2-1	HTCT250-2-1	CLRCVR3-1	1
HTWC250-250-1	HTCT250-250-1	CLRCVR3-1	1

Order number of pieces required, in multiples of Standard Package Quantity.

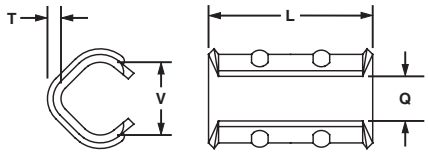
Prime items appear in **BOLD**.

Code Conductor, Thin Wall, Tin-Plated, CTAPF

LISTED CERTIFIED



- For copper-to-copper tapping splicing or pigtailing
- Wide wire range-taking capability minimizes inventory requirements
- Color-coded for proper crimp die selection
- Ribbed design provides high strength
- Made from high conductivity wrought copper
- Tin-plated to inhibit corrosion and oxidation
- UL Listed and CSA Certified with AWG conductor to 600 V and temperature rated to 90°C when crimped with *PANDUIT* and specified competitor crimping tools and dies



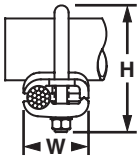
Part Number	Copper Conductor Size		Number of Ribs	Figure Dimensions In. (mm)				*PANDUIT* Crimping Tool‡	*PANDUIT* Color Code	Wire Strip Length In. (mm)	Std. Pkg. Qty.
	Run AWG (mm²)	Tap AWG (mm²)		L	T	V	Q				
CTAPF4-12TP-C	#6, #5, #4 (16 STR 25 STR)	#8 – #6, #12 – #8 (10 – 16 STR 4 – 10 STR)	1	1.25 (31.8)	.07 (1.8)	.40 (10.21)	.28 (7.1)	CT-1700, CT-930, CT-2931	Brown	1 5/16 (33.3)	100
CTAPF1/0-12TP-L	#2, #1, #1/0 (25 – 35 STR 25 – 35 STR 4 – 25 STR)	#4 – #2, #4 – #3, #12 – #4 (25 – 35 STR 25 – 35 STR 4 – 25 STR)	2	1.82 (46.2)	.09 (2.3)	.63 (16.0)	.42 (10.7)	CT-930, CT-2931	Orange	1 7/8 (47.6)	50
CTAPF2/0-12TP-Q	#1, #1/0, #2/0 (50 STR 70 STR 70 STR)	#2 – #1, #3 – #2, #12 – #3 (35 – 50 STR 35 STR 4 – 35 STR)	2	1.82 (46.2)	.09 (2.3)	.71 (18.0)	.48 (12.2)	CT-930, CT-2931	Purple	1 7/8 (47.6)	25

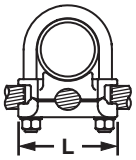
‡See pages M.50 – M.51 for *PANDUIT* and competitor tool and die information.

Grounding Clamp, U-Bolt, Bronze

- Used to ground copper conductor parallel or at a right angle to a rod, tube, or pipe
- Made from high strength, electrolytic cast bronze
- High strength silicon bronze hardware provides long term reliable assembly
- Accommodates a wide range of pipe, tube, rod and conductor sizes – minimizes inventory
- UL Listed for grounding and bonding with AWG conductor and suitable for direct burial in earth or concrete







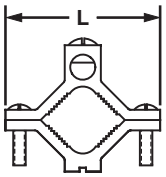
Part Number	Ground Rod Size In. (mm)	Iron Pipe Size In. (mm)	Conductor Size Range AWG (mm²)	Figure Dimensions In. (mm)			Bolt Dia. In. (mm)	Hex Size In. (mm)	Tightening Torque In.-Lbs. (Nm)	Std. Pkg. Qty.
				L	W	H				
GPL-8-Q	7/8 or 1 (23)	1/2 or 3/4 (20 or 25)	#8 SOL – #4 STR (10 SOL – 16 STR)	2.38 (60.5)	1.38 (35.1)	2.63 (66.8)	3/8 (9.5)	9/16 (14)	110 (12.5)	25
GPL-14-X	—	1 (32)	#8 SOL – #4 STR (10 SOL – 16 STR)	2.63 (66.8)	1.38 (35.1)	2.75 (69.9)	3/8 (9.5)	9/16 (14)	110 (12.5)	10
GPL-15-X	—	1 (32)	#4 SOL – 2/0 STR (16 STR – 70 STR)	2.63 (66.8)	1.63 (41.4)	2.75 (69.9)	3/8 (9.5)	9/16 (14)	180 (20.5)	10
GPL-16-X	—	1 (32)	2/0 SOL – 250 kcmil (70 SOL – 127)	2.63 (66.8)	1.88 (47.8)	3.25 (82)	3/8 (9.5)	9/16 (14)	180 (12.5)	10
GPL-22-X	—	1 1/4 (40)	2/0 SOL – 250 kcmil (70 SOL – 127)	3.00 (76.2)	1.88 (47.8)	3.50 (88.9)	3/8 (9.5)	9/16 (14)	240 (12.5)	10
GPL-28-X	—	1 1/2 (52)	2/0 SOL – 250 kcmil (70 SOL – 127)	3.25 (82.6)	1.88 (47.8)	4.00 (101.6)	3/8 (9.5)	9/16 (14)	240 (12.5)	10
GPL-34-3	—	2 (63)	2/0 SOL – 250 kcmil (70 SOL – 127)	3.75 (95.3)	1.88 (47.8)	4.25 (107.9)	3/8 (9.5)	9/16 (14)	240 (12.5)	3

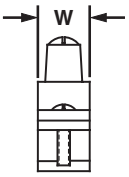
Grounding Clamp for Water Pipes, Bronze

LISTED CERTIFIED



- Used to ground copper code conductor to water pipe or copper tube
- Cast from high strength, electrolytic bronze to provide reliable grounding connections
- Plated steel screws provide high strength and inhibit corrosion
- Accommodates a wide range of pipe, tube, rod and conductor sizes – minimizes inventory
- UL Listed for grounding and bonding with AWG conductor and suitable for direct burial in earth or concrete





Part Number	Water Pipe Range In. (mm)	Conductor Size Range AWG (mm²)	Figure Dimensions In. (mm)		Tightening Torque In.-Lbs. (Nm)		Std. Pkg. Qty.
			L	W	Conductor	Clamp	
KP1-C	1/2 – 1 (20 – 32)	#10 SOL – #2 STR (6 SOL – 35 STR)	2.28 (57.9)	.66 (16.8)	50 (5.5)	50 (5.5)	100
KP2-L	1 1/4 – 2 (40 – 63)	#10 SOL – #2 STR (6 SOL – 35 STR)	3.58 (90.9)	.73 (18.5)	50 (5.5)	50 (5.5)	50

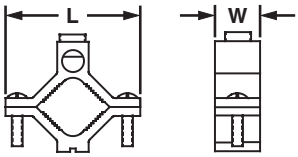
Prime items appear in **BOLD**.

Grounding Clamp for Water Pipes, Aluminum

UL LISTED

- Dual-rated for grounding aluminum or copper code conductors to copper water pipe, galvanized pipe, or steel conduit
- Made from high strength, extruded aluminum alloy to provide long term durability
- Tin-plated to inhibit corrosion and oxidation and for low contact resistance
- Plated steel screws provide high strength and inhibit corrosion
- Accommodates a wide range of pipe, tube, and conductor sizes – minimizes inventory requirements
- UL Listed for grounding and bonding





Part Number	Water Pipe Range In. (mm)	Conductor Size Range AWG (mm2)	Figure Dimensions In. (mm)		Tightening Torque In. – Lbs. (Nm)		Std. Pkg. Qty.
			L	W	Conductor	Clamp	
GC-15A-Q	1/2 – 3/4 – 1 (20 – 25)	#14 AWG – 1/0 AWG (2.5 – 70)	2.25 (57.2)	.69 (17.5)	50 (5.5)	50 (5.5)	25
GC-18A-X	1 1/4 – 1, 1/2 – 2 (40 – 32, 20 – 63)	#6 AWG – 250 kcmil (16 – 150)	3.75 (95.3)	.81 (20.6)	50 (5.5)	50 (5.5)	10
GC-22A-4	2 1/2 – 3 – 3 1/2 – 4 (63.5 – 76 – 88.9 – 101.6)	#6 AWG – 250 kcmil (16 – 150)	6.31 (95.3)	1.00 (25.4)	50 (5.5)	50 (5.5)	4

Split Bolt, Copper

LISTED CERTIFIED With AWG

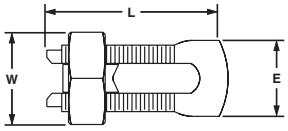
- Made from high strength copper alloy to resist corrosion and provide premium electrical and mechanical performance
- Wire range-taking capability minimizes inventory requirements
- Nut hex provides correct fit with socket, box, or open end wrenches resulting in proper torquing of electrical connection
- Pressure bar provides secure connection on a full range of conductor combinations used with each connector assuring premium wire pull-out strength
- UL Listed and CSA Certified with AWG conductor for use up to 600 V and temperature rated 90°C
- SBCT3-C is tin-plated for bonding to galvanized wire baskets



SBC3-C



SBCT3-C Tin-Plated



Part Number	Copper Conductor: Range of Equal Run and Tap AWG (mm²) Min.	Copper Conductor: Range of Equal Run and Tap AWG (mm²) Max.	Copper Conductor: Min. Tap with One Max. Run AWG (mm²)	Figure Dimensions In. (mm) E	Figure Dimensions In. (mm) W	Figure Dimensions In. (mm) L	Tightening Torque In.-Lbs. (Nm)	Std. Pkg. Qty.
UL Listed and CSA Certified with Copper Code Conductors								
SBC3-C	#8 STR (10)	#4 STR (25)	#14 STR (2.5)	.58 (14.7)	.81 (20.6)	1.16 (29.5)	275 (31.1)	100
UL Listed and CSA Certified with Copper and Aluminum Code Conductors								
SBCT3-C*	#8 STR (10)	#4 STR (25)	#10 STR (6)	.58 (14.7)	.81 (20.6)	1.24 (31.5)	275 (31.1)	100

*The use of *PANDUIT* oxide inhibiting joint compound (CMP-100) is recommended. Refer to www.panduit.com for more information.

Hand Operated Plier Type Tools

- Installer controlled crimp
- Available with wire stripping and cutting features
- Plier type crimp for #22 thru #10 insulated and non-insulated terminal products



Part Number	Part Description	Std. Pkg. Qty.
CT-100A	Crimps most *PANDUIT* #22 – #10 AWG insulated and non-insulated terminals, disconnects, and splices. Cuts #4, #6, #8 and #10 screw sizes. Cuts and strips wire. Excellent all-around application tool of heat treated finished steel with comfortable cushioned plastic grip handles.	1

CONTOUR CRIMP™ Controlled Cycle Tools

- Specifically designed for the installation of *PAN-TERM*® Terminals, Disconnects, and Splices
- Controlled cycle mechanism assures high quality, consistent terminations
- Ergonomic tool design assures operator comfort, safety, and performance
- Polypropylene handles provide chemical resistance and a cushioned, non-slip grip
- Multi-position locator facilitates a high quality repeatable crimp



CT-1550



CT-1570



CT- 1700

Part Number	Part Description	Std. Pkg. Qty.
CT-1550	Crimps most *PAN-TERM*® #22 – #10 AWG nylon and vinyl insulated terminals, splices, and disconnects. The CT-1550 has the red/blue pocket closest to the pivot which provides a reduced crimp effort for those who make red/blue terminations.	1
CT-1570	Crimps most *PAN-TERM*® #22 – #10 AWG and .5 – 6.0mm² non-insulated terminals and disconnects. Crimps *PANDUIT* #22 – #10 AWG and .5 – 6.0mm² non-insulated splices and #10 AWG compression lugs.	1
CT-1700	Crimps *PANDUIT* #8 – #2 AWG non-insulated tubular terminals (S series), #8 – #1 AWG copper code conductor lugs and splices, #6 – #4 AWG dual rated aluminum lugs and splices and CTAPF10-16 to CTAPF3-12 copper taps. Includes 5-position, color-coded rotating die.	1

Die Type, Manual Hydraulic, 14 Ton, Crimping Tool

- Two-stage rapid advance hydraulic system minimizes number of pumps required to complete a crimp – saves time
- Cushioned grip prevents hands from slipping on tool – reduces fatigue
- Provides UL Listed and CSA Certified connections on *PANDUIT*® *PAN-LUG*™ Copper and Aluminum Lugs and Splices and Copper Taps
- Open "C-Head" design allows easy loading of crimping dies and connectors, saves time
- Requires crimping dies, see page M.45
- Dies installed using spring loaded die retention pins, no need for tools
- Rubber boot on crimp head provides abrasion protection
- Audible "pop-off" valve indicates crimp completion
- Crimp head rotates 180°, provides versatility for use in restricted spaces



Part Number	Part Description	Std. Pkg. Qty.
CT-930	Terminates *PANDUIT*® *PAN-LUG*™ Compression Connectors: • Copper compression lugs and splices for #8 AWG – 750 kcmil (10 – 300mm²) code conductor • Copper compression lugs and splices for #8 AWG – 600 kcmil (10 – 300mm²) flex conductor • Copper compression CTAPF taps for #10 – 3/0 AWG (6 – 70mm²) code conductor • Copper compression CTAP taps for #8 – 4/0 AWG (10 – 95mm²) code conductor • Copper compression HTCT taps for #14 AWG – 250 kcmil (2.5 – 125mm²) code conductor, #14 – 4/0 AWG (2.5 – 120mm²) flex conductor • Aluminum compression lugs and splices for #6 AWG – 600 kcmil (16 – 300mm²) code conductor • Aluminum compression HTAPs for #14 AWG – 500 kcmil (2.5 – 240mm²) code conductor • *PANDUIT*® *PAN-TERM*® Tubular Terminals for #8 AWG – 250 kcmil (10 – 120mm²) code conductor Warranty: 5 years CT-930 includes: • Tool • Plastic tool case with die storage	1

Die Type, Battery Powered Hydraulic, 12 Ton, Crimping Tool

- Two-stage rapid advance hydraulic system minimizes cycle time
- Provides UL Listed and CSA Certified connections on *PANDUIT® PAN-LUG™* Copper and Aluminum Lugs and Splices and Copper Taps
- Open "C-Head" design allows easy loading of crimping dies and connectors, saves time
- Rubber boot on crimp head provides abrasion protection
- Ram automatically retracts when crimp cycle is complete
- Retraction stop feature allows the installer to pull the trigger and stop the ram from fully retracting to save time and battery charge on multiple crimp scenarios
- Tool provided with two, high capacity 12 VDC rechargeable nickel-metal hydride batteries – provides for continuous operation and eliminates "memory" build-up, one hour charge time
- Eight second crimp cycle time provides quick terminations, saves time
- Uses industry standard MAKITA* batteries and charger – industry proven reliability easy to obtain from local retail sources
- Requires crimping dies, see page M.45
- Dies installed using spring loaded die retention pins – no need for tools
- Crimp head rotates 360° – provides versatility for use in restricted spaces

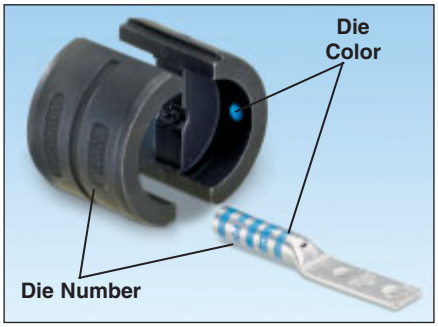
*MAKITA is a registered trademark of Makita Corporation.

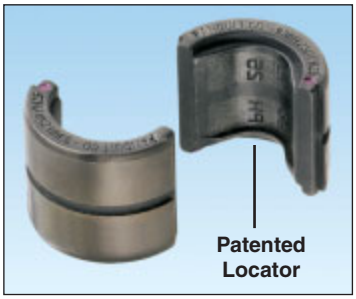


Part Number	Part Description	Std. Pkg. Qty.
CT-2931	Terminates *PANDUIT® PAN-LUG™* Compression Connectors: • Copper compression lugs and splices for #8 AWG – 750 kcmil (10 – 300mm²) code conductor • Copper compression lugs and splices for #8 AWG – 600 kcmil (10 – 300mm²) flex conductor • Copper compression CTAPF taps for #10 – 3/0 AWG (6 – 70mm²) code conductor • Copper compression CTAP taps for #8 – 4/0 AWG (10 – 95mm²) code conductor • Copper compression HTCT taps for #14 AWG – 250 kcmil (2.5 – 125mm²) code conductor, #14 – 4/0 AWG (2.5 – 120mm²) flex conductor • Aluminum compression lugs and splices for #6 AWG – 600 kcmil (16 – 300mm²) code conductor • Aluminum compression HTAPs for #14 AWG – 500 kcmil (2.5 – 240mm²) code conductor • *PANDUIT® PAN-TERM®* Tubular Terminals for #8 AWG – 250 kcmil (10 – 120mm²) code conductor Warranty: 3 years CT-2931 includes: • Tool • Two 12 VDC, rechargeable NiMH batteries • One battery charger, 115 V AC • Steel tool case with storage for batteries, charger, and crimping dies	1
CE **CT-2931/E**	Tool is CE approved. Terminates *PANDUIT® PAN-LUG™* Compression Connectors: • Copper compression lugs and splices for #8 AWG – 750 kcmil (10 – 300mm²) code conductor • Copper compression lugs and splices for #8 AWG – 600 kcmil (10 – 300mm²) flex conductor • Copper compression CTAPF taps for #10 – 3/0 AWG (6 – 70mm²) code conductor • Copper compression CTAP taps for #8 – 4/0 AWG (10 – 95mm²) code conductor • Copper compression HTCT taps for #14 AWG – 250 kcmil (2.5 – 125mm²) code conductor, #14 – 4/0 AWG (2.5 – 120mm²) flex conductor • Aluminum compression lugs and splices for #6 AWG – 600 kcmil (16 – 300mm²) code conductor • Aluminum compression HTAPs for #14 AWG – 500 kcmil (2.5 – 240mm²) code conductor • *PANDUIT® PAN-TERM®* Tubular Terminals for #8 AWG – 250 kcmil (10 – 120mm²) code conductor Warranty: 3 years CT-2931/E includes: • Tool • Two 12 VDC, rechargeable NiMH batteries • One battery charger, 230 V AC • Steel tool case with storage for batteries, charger, and crimping dies	1

CD-920 Crimping Dies

- Crimping dies and connectors are color-coded for easy matching
- Emboss die index number on connector barrels for post crimp inspection
- Part number permanently marked on crimping die for easy identification
- Provide circumferential crimp results in terminations with premium electrical and mechanical performance
- Used in *PANDUIT* crimping tools; see the CT-930 crimping tool on page M.43 and the CT-2931 and CT-2931/E crimping tools on page M.44





HTAP Die with Patented Locator



CD-920

Part Number	Used to Install *PANDUIT* Compression Lug and Splice Sizes Copper Code Conductor Size and Die Color and Die No.	Std. Pkg. Qty.
Single Crimp Dies		
CD-920-8	#8 AWG (10mm²), Red P21	1
CD-920-6	#6 AWG (16mm²), Blue P24	1
CD-920-4	#4 AWG (25mm²), Gray P29	1
CD-920-2	#2 AWG (35mm²), Brown P33	1
CD-920-1	#1 AWG (35mm²), Green P37	1
CD-920-1/0	1/0 AWG (50mm²), Pink P42	1
CD-920-2/0	2/0 AWG (70mm²), Black P45	1
CD-920-3/0	3/0 AWG (95mm²), Orange P50	1
CD-920-4/0	4/0 AWG (95mm²), Purple P54	1
CD-920-250	250 kcmil (120mm²), Yellow P62	1



CD-930H

Part Number	Used to Install *PANDUIT* HTAP Part Numbers Copper HTAP and Die Color and Die No.	Std. Pkg. Qty.
Single Crimp Dies with Patented Locator		
CD-920H-6	HTCT6-6-1, Orange PH6	1
CD-920H-2	HTCT2-2-1, Brown PH2	1
CD-930H-250	HTCT250-2-1, HTCT250-250-1, Purple PH25	1



CDM-920

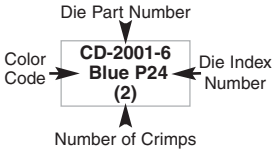
Part Number	Used to Install *PANDUIT* CTAPF Part Numbers Copper CTAPF and Die Color and Die No.	Std. Pkg. Qty.
Multi-Crimp Dies		
CDM-920-2	CTAPF4, Brown P33M	1
CDM-920-3/0	CTAPF1/0, Orange P50M	1
CDM-920-4/0	CTAPF2/0, Purple P54M	1

For use with Copper Conductors

Installation Tooling and Die Selections for Type LCC-W

How to read this chart

For LCC6-W lug and CT-2001 crimping tool:



			PANDUIT							Thomas & Betts			
PANDUIT Part Number	Std. Wire Size	Wire Strip Length (In.)	CT-1570	CT-1701①	CT-1700①	CT-720	CT-920, CT-920CH, CT-930, CT-930CH, CT-2920, CT-2930, CT-2931, CT-2931/E, CT-930LPCH⑤, CT-940CH③, CT-2940③	*Uni-Die*™ Dieless CT-980, CT-980CH, CT-2950④, CT-2980, CT-2981, CT-980LPCH⑤ Extended Wire Range⑧	CT-2001, CT-2002	TBM20S, TBM25S	TBM5	TBM8	TBM12, 13642M
			Die Part Number/Color Code and Die Index Number/(Number Of Crimps)										
LCC10-W	#14 – #10 AWG STR, #12 – #10 AWG SOL	9/16	12-10 (2)	P10 (2)	—	—	—	—	—	—	—	—	—
LCC8-W	#8 AWG	3/4	—	—	Red P21 (3)	CD-720-1 Red P21 (2)	CD-920-8 Red P21 (1)	—	CD-2001-8 Red P21 (2)	Red 21 (3)	Red 21 (1)	Red 21 (1)	Red 21 (1)
LCC6-W	#6 AWG	1-1/8	—	—	Blue P24 (3)	CD-720-1 Blue P24 (2)	CD-920-6 Blue P24 (1)	—	CD-2001-6 Blue P24 (2)	Blue 24 (3)	Blue 24 (1)	Blue 24 (1)	Blue 24 (1)
LCC4-W	#4 – #3 AWG STR, #2 AWG SOL	1-1/8	—	—	Gray P29 (3)	CD-720-1 Gray P29 (2)	CD-920-4 Gray P29 (1)	#4 – #2 AWG #2 AWG SOL Only (1)	CD-2001-4 Gray P29 (2)	Gray 29 (3)	Gray 29 (1)	Gray 29 (1)	Gray 29 (1)
LCC2-W	#2 AWG	1-1/4	—	—	Brown P33 (3)	CD-720-1 Brown P33 (2)	CD-920-2 Brown P33 (1)	#6 – #2 AWG (1)	CD-2001-2 Brown P33 (2)	Brown 33 (3)	Brown 33 (1)	Brown 33 (1)	Brown 33 (1)
LCC1/0-W	1/0 AWG	1-1/2	—	—	—	CD-720-2 Pink P42 (2)	CD-920-1/0 Pink P42 (2)	#6 – 1/0 AWG (2)	CD-2001-1/0 Pink P42 (2)	—	Pink 42 (2)	Pink 42 (2)	Pink 42 (2)
LCC2/0-W	2/0 AWG	1-9/16	—	—	—	CD-720-2 Black P45 (3)	CD-920-2/0 Black P45 (3)	#4 – 2/0 AWG (2)	CD-2001-2/0 Black P45 (3)	—	Black 45 (3)	Black 45 (3)	Black 45 (2)
LCC3/0-W	3/0 AWG	1-9/16	—	—	—	CD-720-2 Orange P50 (3)	CD-920-3/0 Orange P50 (3)	#2 – 3/0 AWG (2)	CD-2001-3/0 Orange P50 (3)	—	Orange 50 (3)	Orange 50 (3)	Orange 50 (2)
LCC4/0-W	4/0 AWG	1-5/8	—	—	—	CD-720-3 Purple P54 (3)	CD-920-4/0 Purple P54 (3)	#1 – 4/0 AWG (2)	CD-2001-4/0 Purple P54 (3)	—	Purple 54 (3)	Purple 54 (3)	Purple 54 (2)
LCC250-W	250 kcmil	1-11/16	—	—	—	CD-720-3 Yellow P62 (4)	CD-920-250 Yellow P62 (3)	1/0 AWG – 250 kcmil (3)	CD-2001-250 Yellow P62 (3)	—	Yellow 62 (4)	Yellow 62 (4)	Yellow 62 (2)

①The CT-1700 and CT-1701 crimp die pockets are integrated into the tool frame.
②Half width dies.
③CD-920 dies can be used with CT-940CH and CT-2940 tools with CD-940-DA adapter.
④Maximum size: 500 kcmil lugs.
⑤Maximum size: 250 kcmil lugs.
⑥Requires U die adapter.
⑦Minimum size: #4 AWG lugs.
⑧Extended wire range when crimped with these *PANDUIT*® *Uni-Die*™ Dieless Crimping Tools.

Installation Tooling and Die Selections for Type LCC-W (continued)

Thomas & Betts			Burndy					Anderson	Penn-Union	Greenlee
TBM15, TBM15I, TBM15BSCR	TBM8-750M-1, TBM8-750, TBM750BSCR⑦, TBM8-750BSCR	TBM14M, TBM14BSCR, BPLT14BSCR, 13100A	Y2MR, Y1MR, Y1MRTC	MY29	Y35, Y35BH, Y39, Y39BH, Y750, Y750-2, Y750BH, Y750HS, Y750BH-2, PAT750, BAT750, BAT35	Y45⑥, Y46⑥	Y644M, Y644HS, Y644MBH, PAT644, BAT644	VC6	TDY-1	1989
Die Part Number/Color Code and Die Index Number/(Number of Crimps)										
—	—	—	—	—	—	—	—	—	—	—
Red 21 (1)	STD (1)	Red 21 (1)	Red 49 (2)	#8 (1)	U8CRT Red 49 (1)	U8CRT Red 49 (1)	—	—	—	—
Blue 24 (1)	STD (1)	Blue 24 (1)	Blue 7 (2)	#6 (1)	U5CRT Blue 7 (1)	U5CRT Blue 7 (1)	STD (1)	STD (1)	—	—
Gray 29 (1)	STD (1)	Gray 29 (1)	Gray 8 (2)	#4 (1)	U4CRT Gray 8 (1)	U4CRT Gray 8 (1)	STD (1)	STD (1)	—	STD (1)
Brown 33 (1)	STD (1)	Brown 33 (1)	Brown 10 (2)	#2 (1)	U2CRT Brown 9 (solid) / Brown 10 (stranded) (2)	U2CRT Brown 9 (solid) / Brown 10 (stranded) (2)	STD (1)	STD (1)	STD (1)	STD (1)
Pink 42H② (4)	STD (2)	Pink 42H② (4)	—	1/0 (2)	U25RT Pink 12 (2)	U25RT Pink 12 (2)	STD (1)	STD (1)	STD (1)	STD (1)
Black 45 (2)	STD (2)	Black 45 (2)	—	2/0 (2)	U26RT Black 13 (2)	U26RT Black 13 (2)	STD (1)	STD (1)	STD (1)	STD (1)
Orange 50 (2)	STD (2)	Orange 50 (2)	—	3/0 (2)	U27RT Orange 14 (2)	U27RT Orange 14 (2)	STD (1)	STD (2)	STD (1)	STD (1)
Purple 54H② (4)	STD (2)	Purple 54H② (4)	—	4/0 (2)	U28RT Purple 15 (2)	U28RT Purple 15 (2)	STD (1)	STD (2)	STD (1)	STD (1)
Yellow 62 (2)	STD (2)	Yellow 62 (2)	—	250 (2)	U29RT Yellow 16 (2)	U29RT Yellow 16 (2)	STD (1)	STD (2)	STD (1)	STD (1)

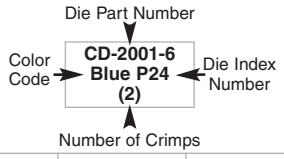
①The CT-1700 and CT-1701 crimp die pockets are integrated into the tool frame.
②Half width dies.
③CD-920 dies can be used with CT-940CH and CT-2940 tools with CD-940-DA adapter.
④Maximum size: 500 kcmil lugs.
⑤Maximum size: 250 kcmil lugs.
⑥Requires U die adapter.
⑦Minimum size: #4 AWG lugs.
⑧Extended wire range when crimped with these *PANDUIT® UNI-DIE™* Dieless Crimping Tools.

For use with Copper Conductors

Installation Tooling and Die Selections for Type LCCX

How to read this chart

For LCCX6 lug and CT-2001 crimping tool:



PANDUIT Part Number	Std. Wire Size	Cable Classes	Wire Strip Length (In.)	*PANDUIT* CT-1700①	*PANDUIT* CT-2001, CT-2002	*PANDUIT* CT-920, CT-920CH, CT-2920, CT-930, CT-930CH, CT-2930, CT-2931, CT-2931/E, CT-2940②, CT-940CH②
				Die Part Number/Color Code and Die Index Number/(Number Of Crimps)		
LCCX8	#8 AWG	Compact B, G, H, I, K, M, Locomotive (DLO)	3/4	Red P21 (3)	CD-2001-8 Red P21 (2)	CD-920-8 Red P21 (1)
LCCX6	#6 AWG	Compact, B, G, H, I, K, M, Locomotive (DLO)	1-1/8	Blue P24 (3)	CD-2001-6 Blue P24 (2)	CD-920-6 Blue P24 (1)
LCCX4	#4 AWG	Compact, B, G, H, I, K, M	1-1/8	Gray P29 (3)	CD-2001-4 Gray P29 (2)	CD-920-4 Gray P29 (1)
	#5, #4, #3 AWG	Locomotive (DLO)				
LCCX2	#2 AWG	Compact, B, G, H, I, M, Locomotive (DLO)④⑤	1-7/16	Brown P33 (3)	CD-2001-2 Brown P33 (2)	CD-920-2 Brown P33 (1)
LCCX1/0	1/0 AWG	Compact, B, G, H, I, K, M, Locomotive (DLO)	1-9/16	—	CD-2001-1/0 Pink P42 (3)	CD-920-1/0 Pink P42 (3)
LCCX2/0	2/0 AWG	Compact, B, G, H, I, K, M, Locomotive (DLO)⑥	1-9/16	—	CD-2001-2/0 Black P45 (3)	CD-920-2/0 Black P45 (3)
LCCX3/0	3/0 AWG	Compact, B, G, H, I, K, M, Locomotive (DLO)⑤	1-5/8	—	CD-2001-3/0 Orange P50 (3)	CD-920-3/0 Orange P50 (3)
LCCX4/0	4/0 AWG	Compact, B, G, H, I, K, M, Locomotive (DLO)⑤	2-5/16	—	CD-2001-4/0 Purple P54 (3)	CD-920-4/0 Purple P54 (3)
LCCX250	250 kcmil	G, H, I, K, M	2-5/16		CD-2001-250 Yellow P62 (3)	CD-920-250 Yellow P62 (3)
	262.6 kcmil	Locomotive (DLO)				

①The CT-1700 crimp die pockets are integrated into the tool frame.
②CD-920 dies can be used with CT-940CH and CT-2940 tools with CD-940-DA adapter.
③Requires U die adapter.
④Does not include class K Flex Conductor with Burndy tools.
⑤Does not include class M Flex Conductor with T&B tools.
⑥Does not include class K Flex Conductor with T&B tools.

Installation Tooling and Die Selections for Type LCCX (continued)

Thomas & Betts						Burndy			
TBM12	TBM8	TBM6, 25000	TBM6BSCR, TBM6H	TBM8-750, TBM8-750M-1	TBM14BSCR, TBM14M, TBM15	BCT500HS, Y500CT-HS	Y644M	Y35, Y39, Y750, Y46③, Y750-2, Y750BH, BAT35-14V, BAT750-14V, PAT750-18V	MRC840
Die Part Number/Color Code and Die Index Number/(Number Of Crimps)									
TBM12D-1 Red 21 (2)	13461 Red 21 (2)	13475 and 13477 Red 21 (2)	6TON21 Red 21 (2)	STD (2)	15520 Red 21 (2)	W8CRT Red 49 (2)	—	U8CRT Red 49 (2)	Red 49 (2)
TBM12D-1 Blue 24 (2)	13461 Blue 24 (2)	13475 and 13477 Blue 24 (2)	6TON24 Blue 24 (2)	STD (2)	15522 Blue 24 (2)	W5CRT Blue 7 (2)	(2)	U5CRT Blue 7 (2)	Blue 7 (2)
TBM12D-2 Gray 29 (3)	13461 Gray 29 (2)	13472 and 13476 Gray 29 (3)	6TON29 Gray 29 (2)	STD (3)	15527-CK Gray 29 (2)	W4CRT Gray 8 (2)	(2)	U4CRT Gray 8 (2)	—
TBM12D-2 Brown 33 (3)	13461 Brown 33 (3)	13474 and 13477 Brown 33 (3)	6TON33 Brown 33 (2)	STD (3)	15528 Brown 33 (2)	W2CRT Brown 10 (2)	(2)	U2CRT Brown 10 (2)	—
TBM12D-3 Pink 42 (3)	13462 Pink 42 (3)	13475 and 13477 Pink 42 (3)	6TON42 Pink 42 (3)	STD (3)	15508 Pink 42 (3)	W25RT Pink 12 (3)	(2)	U25RT Pink 12 (2)	—
TBM12D-4 Blk/Gold 45 (3)	13462 Black 45 (4)	13474 and 13477 Black 45 (3)	6TON45 Black 45 (3)	STD (3)	15526 Black 45 (2)	W26RT Black 13 (3)	(2)	U26RT Black 13 (2)	—
TBM12D-4 Org/Tan 50 (3)	13462 Orange 50 (4)	13474 and 13477 Orange 50 (3)	6TON50 Orange 50 (3)	STD (3)	15530 Orange 50 (3)	W27RT Orange 14 (4)	(2)	U27RT Orange 14 (2)	—
TBM12D-5 Purp/Olive 54 (4)	—	—	6TON54 Purple 54 (4)	STD (4)	15511 Purple 54 (4)	W28RT Purple 15 (4)	(3)	U28RT Purple 15 (3)	—
TBM12D-5 Yellow 62 (3)	—	—	6TON62 Yellow 62 (4)	STD (4)	15510-CK Yellow 62 (2)	W29RT Yellow 16 (4)	(3)	U29RT Yellow 16 (3)	—

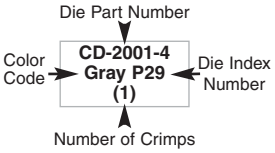
①The CT-1700 crimp die pockets are integrated into the tool frame.
②CD-920 dies can be used with CT-940CH and CT-2940 tools with CD-940-DA adapter.
③Requires U die adapter.
④Does not include class K Flex Conductor with Burndy tools.
⑤Does not include class M Flex Conductor with T&B tools.
⑥Does not include class K Flex Conductor with T&B tools.

For use with Copper Conductors

Installation Tooling and Die Selections for Type CTAPF

How to read this chart

For CTAPF6-12 tap and CT-2001 crimping tool:



PANDUIT Part Number	Stranded Wire Size		*PANDUIT*			
			1700①	CT-920, CT-920CH, CT-2920, CT-930, CT-930CH, CT-2930, CT-2931, CT-940CH②, CT-2940②	CT-2001, CT-2002	
	Main	Tap	Die Part Number/Color Code and Die Index Number/ (Number of Crimps)			
CTAPF4-12	#6 AWG	#8 – #6 AWG	Brown P33 (4)	CDM-920-2 Brown P33M (1)	CDM-2001-2 Brown P33M (1)	CD-2001-2 Brown P33 (2)
	#5, #4 AWG	#12 – #8 AWG				
CTAPF1/0-12	#2 AWG	#4 – #2 AWG	—	CDM-920-3/0 Orange P50M (1)	CDM-2001-3/0 Orange P50M (2)	CD-2001-3/0 Orange P50 (3)
	#1 AWG	#4 – #3 AWG				
	1/0 AWG	#12 – #4 AWG				
CTAPF2/0-12	#1 AWG	#2 – #1 AWG	—	CDM-920-4/0 Purple P54M (1)	—	CD-2001-4/0 Purple P54 (3)
	1/0 AWG	#3 – #2 AWG				
	2/0 AWG	#12 – #3 AWG				

①The CT-1700 crimp die pockets are integrated into the tool frame.
②CD-920 dies can be used with CT-940CH and CT-2940 tools with CD-940-DA adapter.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Installation Tooling and Die Selections for Type CTAPF (continued)

PANDUIT Part Number	Stranded Wire Size		Burndy		Thomas & Betts
			Y35, Y39, Y45, Y46, Y750BH-2 Y750, BAT35, BAT750, Y35BH, Y39BH, Y750BH, Y750HS, PAT750, Y750-2	Y500CT-HS, BCT500-HS, BCT500,Y500CT	TBM8-750, TBM8-750M-1, TBMB-750BSCR
	Main	Tap	Die Part Number/Color Code and Die Index Number/ (Number of Crimps)		
CTAPF4-12	#6 AWG	#8 – #6 AWG	UC4 Brown 10M (1)	WC4 Brown 10M (1)	TBM8-750C20 (1)
	#5, #4 AWG	#12 – #8 AWG			
CTAPF1/0-12	#2 AWG	#4 – #2 AWG	UC25 Orange 14M (1)	WC25 Orange 14M (2)	TBM8-750C3540 (1)
	#1 AWG	#4 – #3 AWG			
	1/0 AWG	#12 – #4 AWG			
CTAPF2/0-12	#1 AWG	#2 – #1 AWG	—	—	TBM8-750C4550 (1)
	1/0 AWG	#3 – #2 AWG			
	2/0 AWG	#12 – #3 AWG			

①The CT-1700 crimp die pockets are integrated into the tool frame.
②CD-920 dies can be used with CT-940CH and CT-2940 tools with CD-940-DA adapter.

For use with Copper Conductors

Installation Tooling and Die Selections for Type HTCT

How to read this chart

For HTCT6-6 tap and CT-2931 crimping tool:

Die Part Number ▼
CD-920H-6 PH6
▲ Die Index Number

PANDUIT Part Number	Copper Conductor Sizes (Code Cable) Main	Tap 1	Tap 2	Tap 3	Copper Conductor Sizes (Flex Cable) Types G, H, I, K, M and Locomotive (DLO) Main	Tap 1	Tap 2	Tap 3	Crimp Die Color Code	Installation Tools 15 TON	14 TON	12 TON
										PANDUIT		
										CT-940CH① CT-2940①	**CT-930 CT-930CH CT-2930**	**CT-920 CT-920CH CT-2920 CT-2931 CT-2931/E**
										Burndy		
										Y46①, Y46C①	—	**Y35, Y35-2, Y35BH, Y35BH-4, Y750, Y39, Y39BH, Y750-2, Y750BH, Y750BH-2, Y750HS, BAT35, BAT750, BAT750C, PAT750, PAT750C**
										Thomas & Betts		
										TBM15I, TBM15BSCR	**TBM14M, TBM14BSCR, BPLT14BSCR, 13100A**	—
										***PANDUIT* Crimp Die Part Number/Die Index No. (Number of Crimps = 1)**		
HTCT6-6	#6-#10 AWG	#6-#14 AWG	—	—	#6-#10 AWG	#6-#14 AWG	—	—	Orange	CD-920H-6 PH6	CD-920H-6 PH6	CD-920H-6 PH6
HTCT2-2	#2-#6 AWG STR/SOL	#2-#6 AWG STR/SOL	#8-#14 AWG	#8-#14 AWG	#2-#8 AWG	#2-#8 AWG	#8-#14 AWG	#8-#14 AWG	Brown	CD-920H-2 PH2	CD-920H-2 PH2	CD-920H-2 PH2
HTCT250-2	250 kcmil -#2 AWG	#2-#6 AWG STR/SOL	#8-#14 AWG	—	4/0-#2 AWG	#2-#8 AWG	#8-#14 AWG	—	Purple	CD-930H-250 PH25	CD-930H-250 PH25	CD-930H-250 PH25
HTCT250-250	250 kcmil -#2 AWG	250 kcmil -#2 AWG	—	—	4/0-#2 AWG	4/0-#2 AWG	—	—	Purple	CD-930H-250 PH25	CD-930H-250 PH25	CD-930H-250 PH25

①CD-920H and CD-930H dies can be used with CT-940CH and CT-2940 *PANDUIT* tools and Y46 and Y46C Burndy tools with CD-940-DA adapter.
PANDUIT crimping dies must be used with all tooling (*PANDUIT* and competitor) to maintain UL/CSA certifications for applications up to 600 V.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

INDUSTRIAL

The *PANDUIT® INDUSTRIALNET™* Solution is a reliable, high performance network cabling infrastructure designed to support industrial networking applications in harsh factory environments. IP (Ingress Protection) and NEMA (National Electrical Manufacturers Association) rated products, including "hardened" network connectivity, withstand the harsh conditions encountered in industrial automation and industrial Ethernet applications.





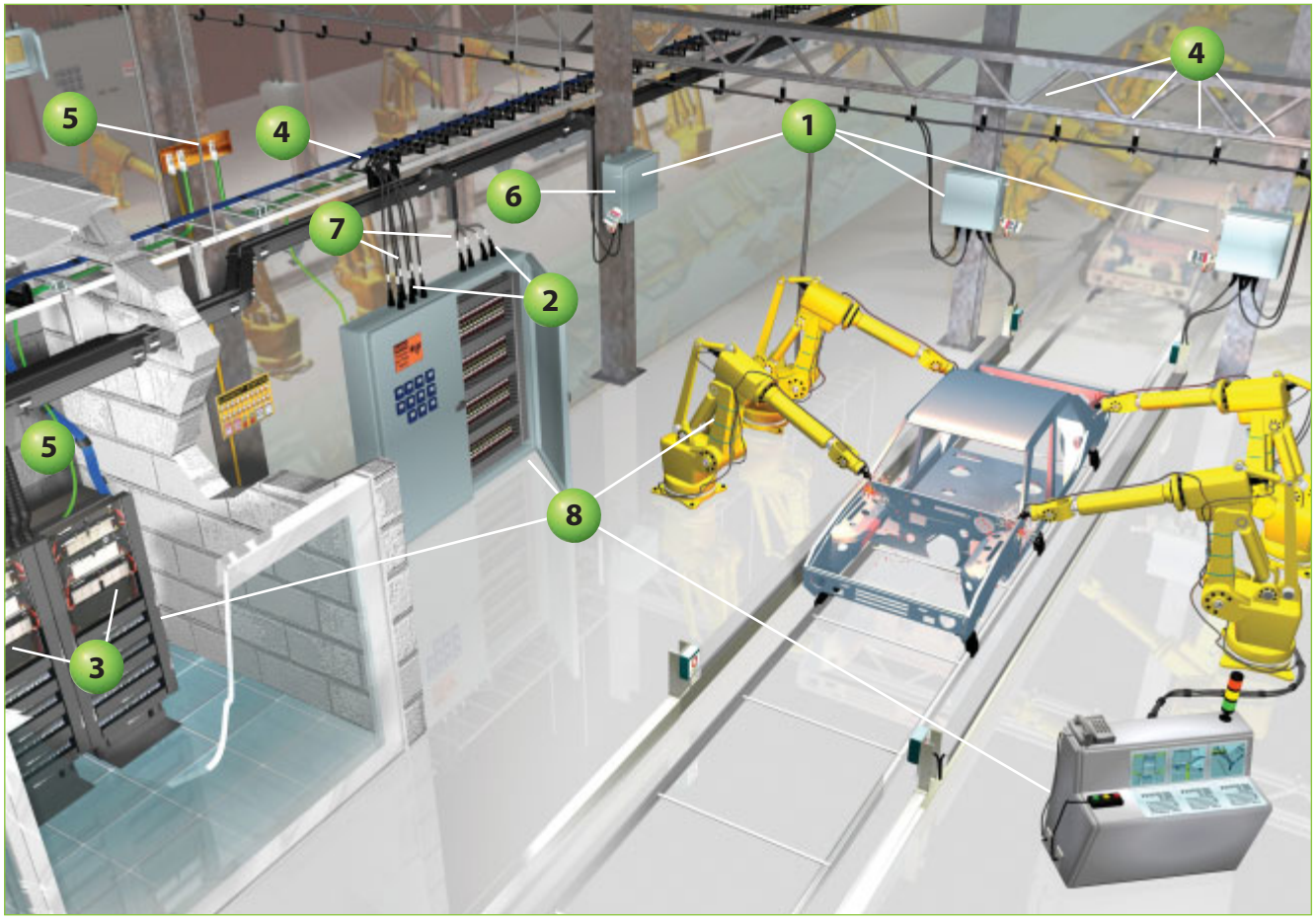




- **Connectors rated for factory and harsh environments – NEMA 6, 6P, and IP67/IP65**
- **Enclosures rated for factory and harsh environments – NEMA 4X/IP66**
- **Fully integrated solution with proven interoperability from the enterprise to the industrial network**
- **Reduced cost of ownership for design, installation, and the management of industrial networking**

The *INDUSTRIALNET™* Solution includes *INDUSTRIALNET™ TX6™*, *TX5e™* Connectors, *INDUSTRIALNET™ TX5e™* Patch Cords, *INDUSTRIALNET™* LC Fiber Optic Bulkhead Adapter and Patch Cords, *INDUSTRIALNET™* Stainless Steel Faceplates and the *INDUSTRIALNET™* Ethernet Enclosure.

Industrial System Roadmap



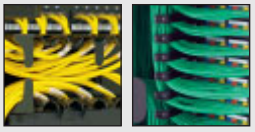
1 *INDUSTRIALNET*™ Ethernet Enclosures (page N.3)



2 *INDUSTRIALNET*™ Connectors and Patch Cords (pages N.4 – N.6)



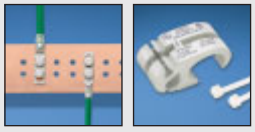
3 Cabinets, Racks, and Cable Management (pages L.1 – L.48)



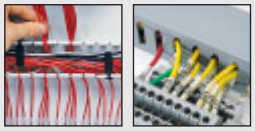
4 Cable Management Accessories (pages L.40 – L.47)



5 Power and Grounding Connectors (pages M.1 – M.52)



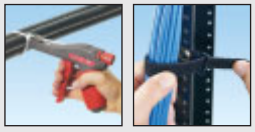
6 Wiring Duct (pages P.1 – P.14)



7 Labeling and Identification (pages O.1 – O.18)



8 Cable Ties and Cable Tie Tools (pages P.15 – P.32)



Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

INDUSTRIALNET™ Ethernet Enclosure and Accessories

- NEMA 4X/IP66 rated when used with one of the required gland plate options
- Accommodates populated or unpopulated gland plates (sold separately)
- 35mm DIN rail equipped for mounting of a hardened Industrial Ethernet switch and power supply: length 14 3/4" (375mm)
- Power supply included (115/230 V to 24 VDC) with built-in circuit breaker (installation required)
- Vibration mitigating back plate for improved switch integrity
- Four welded mounting flanges for convenient and secure installation
- Optional fan/filter kit available for enclosures in high temperature environments; enclosure is IP54 rated when the fan/filter kit is installed*
- Enclosure supplied with a cable routing accessory kit
- Optional fiber uplink kits available for addition of fiber uplinks (sold separately)
- Enclosure latches are lockout capable and will accommodate shackle diameters 5/16" or smaller; *PANDUIT* lock part number PSL-3



IAEIP66 shown with IAECGP, IAEFK54, and IAEFKSC

Part Number	Part Description	Std. Pkg. Qty.
IAEIP66	Industrial Ethernet enclosure. Accepts one gland plate (required to achieve IP66 rating). Supplied with power supply (115/230 V to 24 VDC) and accessories kit. Dimensions: 18.50"H x 18.50"W x 8.00"D (470mm x 470mm x 203mm).	1
IAECGP	Industrial Ethernet connector gland plate. Fully populated with fourteen bulkhead fittings, fourteen internal enclosure patch cords (IUEJGY) for twelve downlink ports, and two copper uplink ports.	1
IAEBGP	Industrial Ethernet blank gland plate.	1
IAEFK54	Industrial Ethernet fan/filter kit. 24 VDC powered. Includes DIN rail mount thermostat. IP54 rated when fan/filter kit is installed.	1
IUTPCHBH1.25BL	Industrial Ethernet internal enclosure patch cords/bulkhead assembly. RJ45 plug to *INDUSTRIALNET™ TX5e™* Bulkhead Connector. UTP, solid cable, 15" in length. Used to connect switch to gland mounted bulkhead.	1
IAEFKSC	Industrial Ethernet SC fiber uplink kit allows termination of four SC connectors onto two duplex fiber uplinks for connection to MT-RJ ports on a customer supplied switch, while maintaining an IP67 rating.	1
IAEFKSP	Industrial Ethernet fiber uplink splice kit supports splicing of two duplex fiber uplinks to MT-RJ or SC ports on a customer supplied switch, while maintaining an IP67 rating.	1

*Should fan kit (IAEFK54) be integrated into the enclosure (IAEIP66), the IP rating of the enclosure shall be reduced to IP54, unless enclosure and any active equipment is located in an environment containing conductive particles that have the potential to ignite with spark.

INDUSTRIALNET™ TX6™ Connectors

- Bulkhead provides IP67/IP65 seal when mated with IP67/IP65 plug or patch cord
- Designed to exceed performance requirements of the TIA/EIA-568-B.2-1 Category 6 and ISO 11801 2nd Edition Class E standards
- Meet industrial Ethernet specifications from ODVA, TIA, and IEC sealed RJ45 connectors
- Utilize *PANDUIT* patented enhanced *GIGA-TX™* Termination technique for consistent, reliable terminations
- Jack module terminates 4-pair 22 – 26 AWG solid and stranded twisted pair cable
- Gasket and seal made of inert, chemically resistant material
- Connector components are made of high temperature rated material
- Tethered caps maintain seal during unmated connection
- Compatible with leading switch manufacturers' equipment



IAEBH6S

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
***INDUSTRIALNET™ TX6™* UTP Bulkhead Connector**			
IAEBH6	Category 6, RJ45, 8-position, 8-wire black industrial bulkhead connector with protective cover.	1	10
***INDUSTRIALNET™ TX6™* Shielded Bulkhead Connector**			
IAEBH6S	Category 6, RJ45, 8-position, 8-wire shielded black industrial bulkhead connector with protective cover.	1	10

EGJT tool terminates enhanced *GIGA-TX™* Style Jack Modules, available on page B.82.
Not suitable for direct UV applications.

INDUSTRIALNET™ TX6™ Coupler

- Provides convenient plug to plug connection point between the hardened switch and automation device
- Bulkhead provides IP67/IP65 seal when mated with IP67/IP65 plug or patch cord
- Designed to exceed performance requirements of the TIA/EIA-568-B.2-1 Category 6 and ISO 11801 2nd Edition Class E standards
- Meet industrial Ethernet specifications from ODVA, TIA, and IEC sealed RJ45 connectors
- Gasket and seal made of inert, chemically resistant material
- Connector components are made of high temperature rated material
- Tethered caps maintain seal during unmated connection
- Compatible with leading switch manufacturers' equipment



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
IAEBHC6	Category 6, RJ45, 8-position, 8-wire black industrial bulkhead coupler with protective cover.	1	10

Acts as one connecting hardware component in channel.
Not suitable for direct UV applications.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

INDUSTRIALNET™ TX5e™ Connectors

- Bulkhead provides IP67/IP65 seal when mated with IP67/IP65 plug or patch cord
- Exceed EIA/TIA-568-B.2 Category 5e and ISO 11801 2nd Edition Class D standards
- Meet the industrial Ethernet specifications from ODVA, TIA, and IEC for sealed RJ45 connectors
- Utilize *PANDUIT* patented *GIGA-TX™* Termination technique for consistent, reliable terminations
- Terminate 4-pair 22 – 26 AWG solid and stranded twisted pair cable
- Gasket and seal made of inert, chemically resistant material
- High temperature rated material
- Tethered caps maintain seal during unmated connection



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
***INDUSTRIALNET™ TX5e™* UTP Bulkhead Connector**			
IAEBH5E	Category 5e, 8-position, 8-wire industrial connector with protective cover.	1	10
***INDUSTRIALNET™ TX5e™* Shielded Bulkhead Connector**			
IAEBH5ES	Category 5e, 8-position, 8-wire shielded industrial connector with protective cover.	1	10

EGJT tool terminates enhanced *GIGA-TX™* Style Jack Modules, available on page B.82.
Not suitable for direct UV applications.

INDUSTRIALNET™ TX5e™ Coupler

- Provides convenient plug to plug connection point between the hardened switch and automation device
- Bulkhead provides IP67/IP65 seal when mated with IP67/IP65 plug or patch cord
- Designed to exceed performance requirements of the TIA/EIA-568-B.2 Category 5e and ISO 11801 2nd Edition Class D standards
- Meets industrial Ethernet specifications from ODVA, TIA, and IEC sealed RJ45 connectors
- Gasket and seal made of inert, chemically resistant material
- Connector components are made of high temperature rated material
- Tethered caps maintain seal during unmated connection
- Compatible with leading switch manufacturers' equipment



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
IAEBHC5E	Category 5e, RJ45, 8-position, 8-wire industrial black bulkhead coupler with protective cover.	1	10

Acts as one connecting hardware component in channel.
Not suitable for direct UV applications.

INDUSTRIALNET™ TX5e™ Modular Plugs

- Bulkhead provides IP67/IP65 seal when mated with IP67/IP65 connector or coupler
- Exceed TIA/EIA-568-B.2 Category 5e and ISO 11801 2nd Edition Class D standards
- Terminate 24 gauge, stranded or solid conductor with maximum conductor insulation diameter of .04"
- Gasket and seal made of inert, chemically resistant material
- Connector components are made of high temperature rated material
- Tethered caps maintain seal during unmated connection
- Compatible with leading switch manufacturers' equipment



MPI588T

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
***INDUSTRIALNET™ TX5e™* UTP Modular Plug**			
MPI588T	Category 5e, RJ45 industrial plug with protective cover.	1	10
***INDUSTRIALNET™ TX5e™* Shielded Modular Plug**			
MPSI588T	Category 5e, RJ45 shielded industrial plug with protective cover.	1	10

MPT5-8A crimp tool required for termination, available on page B.83.
Not suitable for direct UV applications.

INDUSTRIALNET™ TX5e™ Patch Cords

- Bulkhead provides IP67/IP65 seal when mated with IP67/IP65 connector or coupler
- Exceed TIA/EIA-568-B.2 Category 5e and ISO 11801 2nd Edition Class D standards
- Constructed of industrial Category 5e, 24 AWG UTP solid cable and *PAN-PLUG®* Modular Plugs for superior performance
- 100% performance tested and wired to T568A
- Plug contacts plated with 50 microinches of gold for superior performance
- Plug meets all applicable FCC part 68 Subpart F requirements and exceeds IEC 60603-7 specifications
- Available with or without dust caps



IUTPCH*BLY



IUTPCHNC*BLY

Part Number	Part Description	Length Ft.	Length m	Std. Pkg. Qty.	Std. Ctn. Qty.
***INDUSTRIALNET™ TX5e™* UTP Patch Cords**					
IUTPCH3BLY	Patch cord constructed of industrial grade UTP Category 5e solid cable with dust caps.	3	—	1	10
IUTPCH5BLY		5	—	1	10
IUTPCH7BLY		7	—	1	10
IUTPCH10BLY		10	—	1	10
IUTPCH15BLY		15	—	1	10
IUTPCH20BLY		20	—	1	10
IUTPCHNC3BLY	Patch cord constructed of industrial grade UTP Category 5e solid cable without dust caps.	3	—	1	10
IUTPCHNC5BLY		5	—	1	10
IUTPCHNC7BLY		7	—	1	10
IUTPCHNC10BLY		10	—	1	10
IUTPCHNC15BLY		15	—	1	10
IUTPCHNC20BLY		20	—	1	10
***INDUSTRIALNET™ TX5e™* Shielded Patch Cords**					
ISTPCH1MBLY	Patch cord constructed of industrial grade STP Category 5e solid cable with dust caps.	—	1	1	10
ISTPCH2MBLY		—	2	1	10
ISTPCH3MBLY		—	3	1	10
ISTPCH5MBLY		—	5	1	10
ISTPCHNC1MBLY	Patch cord constructed of industrial grade STP Category 5e solid cable without dust caps.	—	1	1	10
ISTPCHNC2MBLY		—	2	1	10
ISTPCHNC3MBLY		—	3	1	10
ISTPCHNC5MBLY		—	5	1	10

Not suitable for direct UV applications.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

INDUSTRIALNET™ LC Fiber Optic Bulkhead Adapter and Patch Cords

- *INDUSTRIALNET*™ Patch Cords are pre-terminated and provide IP67 seal when mated to IP67 bulkhead adapters
- Patch cords built with 62.5µm multimode duplex industrial-grade jacketed fiber cable
- Ideal for daisy-chaining hardened industrial switches between IP66 rated enclosures
- Pigtails are ideal for routing fiber through conduit
- Patch cords are 100% factory tested for insertion loss
- Insertion loss data is recorded for every multimode patch cord, providing lifetime traceability to a QC number, labeled on each patch cord



IAEF7JMA



IAEF617P-7PM1

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
INDUSTRIALNET™ **LC Fiber Optic Bulkhead Adapter**			
IAEF7JMA‡	Industrial LC fiber bulkhead adapter.	1	10
INDUSTRIALNET™ **LC Fiber Optic Patch Cord and Pigtail**			
IAEF617P-7PM1*	Industrial duplex multimode 62.5µm LC to LC patch cord.	1	10
IAEF617P-NM1**	Industrial duplex multimode 62.5µm LC to pigtail.	1	10

‡Bulkhead includes duplex multimode LC adapter with phosphor bronze split sleeves.
*Available in 1, 2, 3, 10, 20 and 30 meter lengths.
**Contact *PANDUIT* Customer Service for pigtail lengths and/or discrete length patch cords with LC fiber interface.

INDUSTRIALNET™ Stainless Steel Faceplates

- Accept *INDUSTRIALNET*™ Connectors and Adapters
- Impact resistant for light industrial environments
- Rear gasket provides tight seal



IAEFP1



IAEFP2-2G

Part Number	Part Description	No. of Module Spaces	Std. Pkg. Qty.	Std. Ctn. Qty.
IAEFP1	Vertical faceplate accepts one *INDUSTRIALNET*™ Bulkhead Connector or Adapter.	1	1	10
IAEFP2-2G	Double gang, vertical faceplate accepts two *INDUSTRIALNET*™ Bulkhead Connectors or Adapters.	2	1	10

All faceplates include mounting screws.

Component Labels for *INDUSTRIALNET*™ Stainless Steel Faceplates



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	**Laser/Ink Jet Desktop Printer Label**	**TDP43MY Thermal Transfer Desktop Printer Label**	***PANTHER*™ LS8E Hand-Held Printer Label**	***COUGAR*™ LS9 Hand-Held Printer Label**
IAEFP1	**C061X030FJJ**	**C061X030YPT**	**C061X030FJC**	**T031X000FJC-BK**
IAEFP2-2G	**2 – C061X030FJJ**	**2 – C061X030YPT**	**2 – C061X030FJC**	**T031X000FJC-BK**

For complete labeling solutions and product information, reference charts on pages O.1 – O.18.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Labeling and Identification

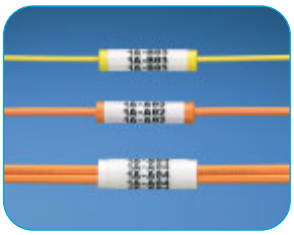
PANDUIT designs and manufactures a full line of labeling products, software, and printers to assist you with TIA/EIA-606-A compliance. Properly identifying your network allows moves, adds, changes, trouble shooting and repairs to be accomplished faster and more efficiently to lower the cost of ownership.











- **World-class quality – ISO 9001 and ISO 14001**
- **High performance and reliability**
- **Wide variety of system solutions to meet the most demanding requirements**
- **Meet or exceed the requirements of UL, CSA, and TIA/EIA-606-A**

Identification solutions are available to comply with TIA/EIA-606-A requirements. For recommended product information and labeling solutions, please refer to the following sections in this catalog: Copper Systems; Fiber Optic Systems; Power over Ethernet; Zone Cabling, Wireless, Outlets; Media Distribution; Physical Infrastructure Management; Overhead and Underfloor Routing; Surface Raceway; Cabinets Racks and Cable Management; Grounding and Bonding; and Industrial.

A. System Overview
B. Copper Systems
C. Fiber Optic Systems
D. Power over Ethernet
E. Zone Cabling
F. Wireless
G. Outlets
H. Media Distribution
I. Physical Infrastructure Management
J. Overhead & Underfloor Routing
K. Surface Raceway
L. Cabinets, Racks & Cable Management
M. Grounding & Bonding
N. Industrial
O. Labeling & Identification
P. Cable Management Accessories
Q. Index

PANTHER™ LS8E Hand-Held Thermal Transfer Printer and Accessories

- Cut-to-length functionality eliminates label waste and label trimming labor
- Partial cut feature available to provide tear-apart strips of labels
- *P1*™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Market specific labeling tools simplify label creation for network components, panel building, and construction and maintenance
- USB interface for importing data, system upgrades, and printing from a wireless laptop or desktop computer
- Legends can be easily aligned with ports on patch panels and faceplates, eliminating the need for manual spacing and guesswork
- Prints self-laminating cable labels, continuous tapes, and die-cut labels for patch panels, faceplates, and other network applications
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Large graphic display with backlight for improved visibility



LS8E-KIT



LS8E

Part Number	Part Description	Std. Pkg. Qty.
LS8E-KIT	Includes LS8E printer, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, LS8-CASE, LS8-PCKIT, LS8-WS, quick reference card and operator's manual.	1
LS8E	Includes LS8E printer, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries and quick reference card.	1
LS8E-ACS*‡	120 VAC power adapter for North America.	1
LS8-CASE	Rigid carrying case.	1
LS8-PCKIT	Includes USB cable and PC interface software for importing data, system upgrades, or printing from a wireless laptop or desktop computer.	1
LS8-IB	Protective impact bumper.	1
LS8-WS	Wrist strap.	1
LS8-CLN	Cleaning kit.	1

*Cannot be used to charge batteries.
‡Other adapters available, replace S with A (Australia), C (China), E (Europe) and U (UK).
Reference chart of *P1*™ Label Cassettes for use with the LS8E can be found on page O.3.

COUGAR™ LS9 Hand-Held Thermal Transfer Printer and Accessories

- Economical identification system provides premium quality solutions at the lowest installed cost
- Cut-to-length functionality eliminates label waste and label trimming labor
- Partial cut feature available to provide tear-apart strips of labels
- *P1*™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Legends can be easily aligned with ports on patch panels and faceplates, eliminating the need for manual spacing and guesswork
- Prints a wide variety of continuous tapes for marking of wires/cables, patch panels, faceplates and other network applications
- Fast loading label cassette includes both label material and ribbon to make changing labels easy



LS9

Part Number	Part Description	Std. Pkg. Qty.
LS9	Includes LS9 printer, one cassette of T100X000VPC-BK continuous tape, six AA alkaline batteries and quick reference card.	1
LS9-ACS*‡	120 VAC power adapter for North America.	1
LS9-CASE	Rigid carrying case.	1
LS9-IB	Protective impact bumper.	1
LS9-WS	Wrist strap.	1
LS9-CLN	Cleaning kit.	1

*Cannot be used to charge batteries.
‡Other adapters available, replace S with A (Australia), C (China), E (Europe) and U (UK).
Reference chart of *P1*™ Label Cassettes for use with the LS9 can be found on page O.3.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

PANDUIT®

Hand-Held Thermal Transfer Printing Solutions





	PANTHER™ LS8E	COUGAR™ LS9
Network Component Labels	Pages O.3 – O.4	
Self-Laminating Labels	Pages O.4 – O.5	
Die-Cut Heat Shrink Tubing	Page O.5	
Continuous Heat Shrink Tubing	Page O.6	Page O.6
Vinyl Cloth Continuous Tapes	Page O.6	Page O.6
Continuous Tapes	Page O.7	Page O.7
ULTIMATE ID® Labels	Page O.8	Page O.8

P1™ Network Component Label Cassettes for *PANTHER*™ LS8E Hand-Held Thermal Transfer Printer



- *P1*™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Use for identifying patch panels, faceplates, punchdown blocks and other network systems hardware
- Die-cut labels designed to provide maximum aesthetic quality and appearance
- Available in adhesive polyolefin and non-adhesive polyester materials

Application Description	Typical Application Page	Code
Boxes – Surface Mount, Outlet, Hybrid	G.24	BX
Faceplates	G.2	FP
GP6™ Category 6 Punchdown Blocks	B.60	GP
Jack Modules	B.5	JM

Application Description	Typical Application Page	Code
Punchdown Blocks – 110	B.68	PB
Patch Panels	B.15	PP
Racks and Cabinets	L.9	RK
Cable Marker Holder – SLCT	B.77	SL

Part Number	Part Description	Width In.	Width mm	Height In.	Height mm	Std. Pkg. Qty.	Std. Ctn. Qty.
C061X030FJC	White, adhesive polyolefin label, 500/cassette, MINI-COM® 1-port identifier. Application codes: BX, FP, and PP.	.61	15.49	.30	7.62	1	10
C125X030FJC	White, adhesive polyolefin label, 200/cassette, MINI-COM® 2-port identifier. Application codes: BX, FP, and PP.	1.25	31.75	.30	7.62	1	10
C138X019FJC	White, adhesive polyolefin label, 200/cassette, MINI-COM® Module identifier. Application code: JM.	1.38	35.05	.19	4.83	1	10
C150X030Y1C	White, non-adhesive polyester label, 75/cassette, MINI-COM® 3-port identifier. Application codes: FP.	1.50	38.10	.30	7.62	1	10
C188X030FJC	White, adhesive polyolefin label, 150/cassette, MINI-COM® 3-port identifier. Application code: FP.	1.88	47.75	.30	7.62	1	10
C195X040Y1C	White, non-adhesive polyester label, 100/cassette, single-gang faceplate. Application code: FP.	1.95	49.53	.40	10.16	1	10
C200X100FJC	White, adhesive polyolefin label, 150/cassette, SLCT bundle marker identifier. Application code: SL.	2.00	50.80	1.00	25.40	1	10
C252X030FJC	White, adhesive polyolefin label, 125/cassette, MINI-COM® 4-port identifier. Application codes: BX, FP, and PP.	2.52	64.01	.30	7.62	1	10

Order number of cassettes required.

Table continues on page O.4

P1™ Network Component Label Cassettes for *PANTHER*™ LS8E Hand-Held Thermal Transfer Printer (continued)

Part Number	Part Description	Width		Height		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm		
C261X030FJC	White, adhesive polyolefin label, 125/cassette, *MINI-COM*® 4-port identifier. Application codes: FP and PP.	2.61	66.29	.30	7.62	1	10
C261X035Y1C	White, non-adhesive polyester label, 75/cassette, *MINI-COM*® 4-port identifier. Application codes: FP and PP.	2.61	66.29	.35	8.89	1	10
C282X030Y1C	White, non-adhesive polyester label, 75/cassette, *MINI-COM*® 4-port identifier. Application codes: FP and PP.	2.82	71.63	.30	7.62	1	10
C288X040Y1C	White, non-adhesive polyester label, 75/cassette, double-gang faceplate. Application code: FP.	2.88	73.15	.40	10.16	1	10
C315X030FJC	White, adhesive polyolefin label, 100/cassette, *MINI-COM*® 5-port identifier. Application code: FP.	3.15	80.01	.30	7.62	1	10
C379X030FJC	White, adhesive polyolefin label, 75/cassette, *MINI-COM*® 6-port identifier. Application code: FP.	3.79	96.27	.30	7.62	1	10
C390X030Y1C	White, non-adhesive polyester label, 50/cassette, *MINI-COM*® 6-port identifier. Application code: PP.	3.90	99.06	.30	7.62	1	10
C750X050Y1C	White, non-adhesive polyester label, 30/cassette, 110 block identifier. Application code: PB.	7.50	190.50	.50	12.70	1	10
C788X050Y1C	White, non-adhesive polyester label, 30/cassette, *GP6*™ System identifier. Application code: GP.	7.88	200.15	.50	12.70	1	10

Order number of cassettes required.

P1™ Self-Laminating Label Cassettes for *PANTHER*™ LS8E Hand-Held Thermal Transfer Printer



- *P1*™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Self-laminating adhesive labels for wire/cable identification include a colored print-on area and clear overlaminate

Part Number	Part Description	Width		Length		Print-On Height		Min. Cable O.D.		Max. Cable O.D.		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm		
S050X075VAC	White print-on area, vinyl label for 18 – 14 AWG wires, 450/cassette.	.50	12.70	.75	19.05	.25	6.35	.08	2.02	.16	4.04	1	10
S050X125VAC	White print-on area, vinyl label for 12 – 10 AWG wires, 225/cassette.	.50	12.70	1.25	31.75	.38	9.65	.12	3.07	.28	7.03	1	10
S050X150VAC	White print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables, 200/cassette.	.50	12.70	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	1	10
S075X075VAC	White print-on area, vinyl label for 18 – 14 AWG wires, 350/cassette.	.75	19.05	.75	19.05	.25	6.35	.08	2.02	.16	8.09	1	10
S075X100VAC	White print-on area, vinyl label for 12 – 10 AWG wires, 275/cassette.	.75	19.05	1.00	25.40	.38	9.65	.12	3.05	.20	5.08	1	10
S075X125VAC	White print-on area, vinyl label for 12 – 10 AWG wires, 225/cassette.	.75	19.05	1.25	31.75	.38	9.65	.12	3.07	.28	7.03	1	10
S075X150VAC	White print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables, 200/cassette.	.75	19.05	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	1	10

*Other colors available, replace A with B (Blue), D (Green), H (Red) and I (Yellow).
Order number of cassettes required.

P1™ Self-Laminating Label Cassettes for *PANTHER*™ LS8E Hand-Held Thermal Transfer Printer (continued)

Part Number	Part Description	Width		Length		Print-On Height		Min. Cable O.D.		Max. Cable O.D.		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm		
S100X075VAC	White print-on area, vinyl label for 18 – 14 AWG wires, 350/cassette.	1.00	25.40	.75	19.05	.25	6.35	.08	2.02	.16	4.04	1	10
S100X125VAC	White print-on area, vinyl label for 12 – 10 AWG wires, 225/cassette.	1.00	25.40	1.25	31.75	.38	9.65	.12	3.07	.28	7.03	1	10
S100X150VAC*	White print-on area, vinyl label for Cat. 5e/Cat. 6/Cat. 6A cables, 200/cassette.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	1	10
S100X160VAC	White print-on area, vinyl label 175/cassette. For use with *LABELCORE*™ Sleeves NWSLC-2Y and NWSLC-3Y.	1.00	25.40	1.60	40.64	.80	20.32	.25	6.35	.25	6.35	1	10
S100X220VAC	White print-on area, vinyl label, 125/cassette. For use with *LABELCORE*™ Sleeve NWSLC-7Y.	1.00	25.40	2.20	55.88	1.10	27.94	.48	12.19	.48	12.19	1	10
S100X225VAC*	White print-on area, vinyl label for 8 – 4 AWG wires, 125/cassette.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.48	12.19	1	10
S100X400VAC	White print-on area, vinyl label for 2 – 1 AWG wires, 75/cassette.	1.00	25.40	4.00	101.60	1.00	25.40	.32	8.09	.95	24.26	1	10
S100X650VAC	White print-on area, vinyl label for 1/0 – 250 MCM wires, 50/cassette.	1.00	25.40	6.50	165.10	1.50	38.10	.48	12.19	1.59	40.39	1	10

*Other colors available, replace A with B (Blue), D (Green), H (Red) and I (Yellow).
Order number of cassettes required.

P1™ Die-Cut Heat Shrink Label Cassettes for *PANTHER*™ LS8E Hand-Held Thermal Transfer Printer

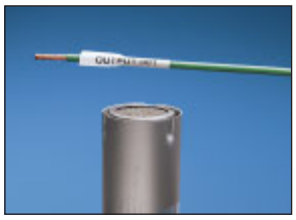


- *P1*™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Meet print performance requirements of MIL-M-81531 and MIL-STD-202F Method 215A, Solution A, C, and D
- Meet UL Standard 224 for flammability
- Shrink ratio 3:1
- Each cassette contains roll of die-cut non-adhesive flattened polyolefin

Part Number	Part Description	Width		Length		Min. Cable Diameter		Max. Cable Diameter		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm		
H100X025H1C	White, 1/8" diameter heat shrinkable polyolefin, 22 – 16 AWG, 100/cassette.	.25	6.35	1.00	25.40	.04	1.02	.13	3.30	1	10
H100X025H2C	Yellow, 1/8" diameter heat shrinkable polyolefin, 22 – 16 AWG, 100/cassette.	.25	6.35	1.00	25.40	.04	1.02	.13	3.30	1	10
H100X034H1C	White, 3/16" diameter heat shrinkable polyolefin, 18 – 12 AWG, 100/cassette.	.34	8.64	1.00	25.40	.06	1.52	.19	4.83	1	10
H100X034H2C	Yellow, 3/16" diameter heat shrinkable polyolefin, 18 – 12 AWG, 100/cassette.	.34	8.64	1.00	25.40	.06	1.52	.19	4.83	1	10
H100X044H1C	White, 1/4" diameter heat shrinkable polyolefin, 16 – 10 AWG, 100/cassette.	.44	11.18	1.00	25.40	.08	2.03	.25	6.35	1	10
H100X044H2C	Yellow, 1/4" diameter heat shrinkable polyolefin, 16 – 10 AWG, 100/cassette.	.44	11.18	1.00	25.40	.08	2.03	.25	6.35	1	10
H100X084H1C	White, 1/2" diameter heat shrinkable polyolefin, 8 – 1 AWG, 75/cassette.	.84	21.34	1.00	25.40	.17	4.32	.50	12.70	1	10
H100X084H2C	Yellow, 1/2" diameter heat shrinkable polyolefin, 8 – 1 AWG, 75/cassette.	.84	21.34	1.00	25.40	.17	4.32	.50	12.70	1	10

Order number of cassettes required.

P1™ Continuous Heat Shrink Label Cassettes for *PANTHER*™ LS8E and *COUGAR*™ LS9 Hand-Held Thermal Transfer Printers



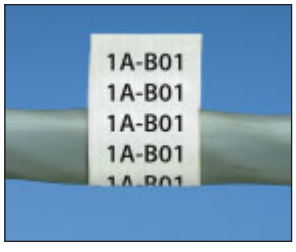
- *P1*™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Meet print performance requirements of MIL-M-81531 and MIL-STD-202F Method 215A, Solution A, C, and D
- Meet UL Standard 224 for flammability
- Shrink ratio 3:1
- Each cassette contains a continuous roll of non-adhesive flattened polyolefin that can be cut-to-length

Part Number	Part Description	Width		Length		Min. Cable Diameter		Max. Cable Diameter		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	Ft.	m	In.	mm	In.	mm		
H000X025H1C	White, 1/8" diameter heat shrinkable polyolefin, 22 – 16 AWG.	.25	6.35	8.0	2.44	.04	1.02	.13	3.30	1	10
H000X025H2C	Yellow, 1/8" diameter heat shrinkable polyolefin, 22 – 16 AWG.	.25	6.35	8.0	2.44	.04	1.02	.13	3.30	1	10
H000X034H1C	White, 3/16" diameter heat shrinkable polyolefin, 18 – 12 AWG.	.34	8.64	8.0	2.44	.06	1.52	.19	4.83	1	10
H000X034H2C	Yellow, 3/16" diameter heat shrinkable polyolefin, 18 – 12 AWG.	.34	8.64	8.0	2.44	.06	1.52	.19	4.83	1	10
H000X044H1C	White, 1/4" diameter heat shrinkable polyolefin, 16 – 10 AWG.	.44	11.18	6.0	1.83	.08	2.03	.25	6.35	1	10
H000X044H2C	Yellow, 1/4" diameter heat shrinkable polyolefin, 16 – 10 AWG.	.44	11.18	6.0	1.83	.08	2.03	.25	6.35	1	10
H000X084H1C	White, 1/2" diameter heat shrinkable polyolefin, 8 – 1 AWG.	.84	21.34	6.0	1.83	.17	4.32	.50	12.70	1	10
H000X084H2C	Yellow, 1/2" diameter heat shrinkable polyolefin, 8 – 1 AWG.	.84	21.34	6.0	1.83	.17	4.32	.50	12.70	1	10

Order number of cassettes required.

P1™ Vinyl Cloth Continuous Tape Cassettes for *PANTHER*™ LS8E and *COUGAR*™ LS9 Hand-Held Thermal Transfer Printers

- *P1*™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Non-laminated adhesive labels for wire/cable identification



Part Number	Part Description	Height		Length		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	Ft.	m		
T050X000CBC-BK	Black on white, vinyl cloth tape.	.50	12.70	12.5	3.8	1	10
T100X000CBC-BK	Black on white, vinyl cloth tape.	1.00	25.40	12.5	3.8	1	10

Order number of cassettes required.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

P1™ Continuous Tape Cassettes for *PANTHER*™ LS8E and *COUGAR*™ LS9 Hand-Held Thermal Transfer Printers

- *P1*™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Labels for general network identification
- Available in a variety of colors, widths, and adhesive materials including continuous polyolefin, polyester, and vinyl
- For flat label applications only

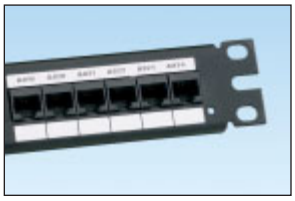


Part Number	Part Description	Height		Length		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	Ft.	m		
T019X000FJC-BK	Black on white, polyolefin module label tape.	.19	4.83	25.0	7.6	1	10
T024X000FJC-BK	Black on white, polyolefin tape, terminal block label.	.24	6.10	25.0	7.6	1	10
T031X000FJC-BK	Black on white, polyolefin tape, terminal block label.	.31	7.87	25.0	7.6	1	10
T038X000FJC-BK	Black on white, polyolefin tape, terminal block label.	.38	9.65	25.0	7.6	1	10
T038X000VPC-BK	Black on white, vinyl tape.	.38	9.65	25.0	7.6	1	10
T038X000VYC-WH	White on black, vinyl tape.	.38	9.65	25.0	7.6	1	10
T038X000YKC-BK	Black on clear, polyester tape.	.38	9.65	25.0	7.6	1	10
T050X000VPC-BK	Black on white, vinyl tape.	.50	12.70	25.0	7.6	1	10
T050X000VQC-BK*	Black on blue, vinyl tape.	.50	12.70	25.0	7.6	1	10
T050X000VSC-BK*	Black on green, vinyl tape.	.50	12.70	25.0	7.6	1	10
T050X000VUC-BK	Black on orange, vinyl tape.	.50	12.70	25.0	7.6	1	10
T050X000VWC-BK*	Black on red, vinyl tape.	.50	12.70	25.0	7.6	1	10
T050X000VXC-BK	Black on yellow, vinyl tape.	.50	12.70	25.0	7.6	1	10
T050X000VYC-WH	White on black, vinyl tape.	.50	12.70	25.0	7.6	1	10
T050X000YKC-BK*	Black on clear, polyester tape.	.50	12.70	25.0	7.6	1	10
T075X000VPC-BK	Black on white, vinyl tape.	.75	19.05	25.0	7.6	1	10
T075X000YKC-BK	Black on clear, polyester tape.	.75	19.05	25.0	7.6	1	10
T100X000VPC-BK	Black on white, vinyl tape.	1.00	25.40	25.0	7.6	1	10
T100X000VQC-BK*	Black on blue, vinyl tape.	1.00	25.40	25.0	7.6	1	10
T100X000VSC-BK*	Black on green, vinyl tape.	1.00	25.40	25.0	7.6	1	10
T100X000VUC-BK*	Black on orange, vinyl tape.	1.00	25.40	25.0	7.6	1	10
T100X000VWC-BK*	Black on red, vinyl tape.	1.00	25.40	25.0	7.6	1	10
T100X000VXC-BK*	Black on yellow, vinyl tape.	1.00	25.40	25.0	7.6	1	10
T100X000VYC-WH	White on black, vinyl tape.	1.00	25.40	25.0	7.6	1	10
T100X000YKC-BK*	Black on clear, polyester tape.	1.00	25.40	25.0	7.6	1	10

*Available with white ribbon, replace BK suffix with WH.
Order number of cassettes required.

P1™ *ULTIMATE ID*® Label Cassette for use with *PANTHER*™ LS8E and *COUGAR*™ LS9 Hand-Held Thermal Transfer Printers

- *P1*™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette
- Fast loading label cassette includes both label material and ribbon to make changing labels easy
- Label cassettes designed for use with *ULTIMATE ID*® Faceplates, Patch Panels, Marker Ties, Modular Furniture Faceplates and Surface Mount Boxes
- Labels assist in the compliance of TIA/EIA-606-A labeling standard
- Available in non-adhesive polyester material



Part Number	Part Description	Height		Length		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	Ft.	m		
UILS8BW	White, non-adhesive polyester label cassette.	.236	6.0	25.0	7.6	1	10

Order number of cassettes required.

TDP43MY Thermal Transfer Desktop Printer and Accessories

- Compact, lightweight design enables use in office or remote locations
- 300 dpi thermal transfer printer creates crisp, clear legends with superior legibility
- Up to 2.00" per second print speed for fast label production
- Use to print a wide variety of self-laminating labels, component labels, and marker plates up to 4.00" wide
- *EASY-MARK*™ Labeling Software and hybrid ribbon included with printer
- Compatible with most standard PCs



TDP43MY



TDP43M-CASE

Part Number	Part Description	Std. Pkg. Qty.
TDP43MY	300 dpi printer; includes printer, *PANDUIT*® *EASY-MARK*™ Labeling Software, RMH4BL hybrid black ribbon, AC power adapter with US and Europlug power cords, manual and quick start card.	1
TDP43M-RS	External label roll stand – used to rear feed labels that are supplied on 3" cores.	1
TDP43M-CASE	Hardside carrying case. Accommodates printer, AC power adapter, ribbons, printer cable, labels and tools.	1
TDP43M-ACY	Replacement AC power adapter with power cord (US cord only).	1
PTR-CLN	Printer cleaning kit – contains bottle of cleaning solution with MSDS, cleaning pen, swabs, alcohol wipes and cleaning instructions.	1

Ribbons for Use with the TDP43MY Thermal Transfer Desktop Printer



- **Hybrid** – Recommended for use with self-laminating and non-adhesive component labels
- **Resin** – Recommended for use with adhesive component labels
- TDP43MY ribbons are also compatible with *PANDUIT* PTR2/PTR2E thermal transfer desktop printers

Part Number	Part Description	Height		Length		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	Ft.	m		
RMH4BL	Black, hybrid thermal transfer ribbon. For use with self-laminating and component labels.	4.33	110.00	240.00	73.0	1	12
RMR4BL*	Black, resin thermal transfer ribbon. For use with component labels and marker plates.	4.33	110.00	240.00	73.0	1	12

*Other colors available, replace BL (Black) with WH (White), BU (Blue), GR (Green) or RD (Red).
Order number of ribbons required.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Component Labels for TDP43MY Thermal Transfer Desktop Printer Supplied on Rolls



- Use for identifying patch panels, faceplates, punchdown blocks and other network systems hardware
- Die-cut labels designed to provide maximum aesthetic quality and appearance
- Available in adhesive polyester and non-adhesive polyester materials
- Use with *PANDUIT* RMR4BL resin thermal transfer ribbon

Application Description	Typical Application Page	Code
Boxes – Surface Mount, Outlet, Hybrid	G.24	BX
Faceplates	G.2	FP
GP6™ Category 6 Punchdown Blocks	B.60	GP
Jack Modules	B.5	JM

Application Description	Typical Application Page	Code
Punchdown Blocks – 110	B.68	PB
Patch Panels	B.15	PP
Racks and Cabinets	L.9	RK
Cable Marker Holder – SLCT	B.77	SL

Part Number	Part Description	Width		Height		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm		
C061X030YPT	White, adhesive polyester label, *Mini-Com*® 1-port identifier. Application codes: BX, FP, and PP.	.61	15.49	.30	7.62	2500	10000
C125X030YPT	White, adhesive polyester label, *Mini-Com*® 2-port identifier. Application codes: BX, FP, and PP.	1.25	31.75	.30	7.62	2500	10000
C138X019YPT	White, adhesive polyester label, *Mini-Com*® module identifier. Application code: JM.	1.38	35.05	.19	4.83	2500	10000
C138X019Y0T	Black, adhesive polyester label, *Mini-Com*® module identifier. Application code: JM.	1.38	35.05	.19	4.83	2500	10000
C188X030YPT	White, adhesive polyester label, *Mini-Com*® 3-port identifier. Application code: FP.	1.88	47.75	.30	7.62	2500	10000
C195X040Y1T	White, non-adhesive polyester label, single gang faceplate. Application Code: FP	1.95	49.53	.40	10.16	2500	10000
C200X100YPT	White, adhesive polyester label, SLCT bundle marker identifier. Application code: SL.	2.00	50.80	1.00	25.40	2500	10000
C200X100Y0T	Black, adhesive polyester label, SLCT bundle marker identifier. Application code: SL.	2.00	50.80	1.00	25.40	2500	10000
C252X030YPT	White, adhesive polyester label, *Mini-Com*® 4-port identifier. Application codes: BX, FP, and PP.	2.52	64.01	.30	7.62	2500	10000
C252X030YPT-P*	White, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	2.52	64.01	.30	7.62	2500	10000
C252X030YQT-P*	Blue, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	2.52	64.01	.30	7.62	2500	10000
C252X030YRT-P*	Brown, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	2.52	64.01	.30	7.62	2500	10000
C252X030YST-P*	Green, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	2.52	64.01	.30	7.62	2500	10000
C252X030YTT-P*	Gray, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	2.52	64.01	.30	7.62	2500	10000
C252X030YUT-P*	Orange, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	2.52	64.01	.30	7.62	2500	10000
C252X030YVT-P*	Purple, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	2.52	64.01	.30	7.62	2500	10000
C252X030YWT-P*	Red, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	2.52	64.01	.30	7.62	2500	10000
C252X030Y0T-P*	Black, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	2.52	64.01	.30	7.62	2500	10000
C252X030Y9T-P*	Gold, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	2.52	64.01	.30	7.62	2500	10000
C252X030Y8T-P*	Yellow, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	2.52	64.01	.30	7.62	2500	10000

*Label is perforated to be used in 1, 2, 3 or 4-position applications.
‡Label is perforated to be used in 1, 2, 3, 4, 5 or 6-position applications.
Order number of labels required in multiples of Std. Pkg. Qty.
Labels roll mounted on 3.00" cores; when using the TDP43MY printer and 3.00" cores, the roll stand (TDP43M-RS) is required.

Table continues on page O.10

Component Labels for TDP43MY Thermal Transfer Desktop Printer Supplied on Rolls (continued)

Part Number	Part Description	Width		Height		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm		
C261X030YPT	White, adhesive polyester label, *Mini-Com*® 4-port identifier. Application codes: FP, and PP.	2.61	66.29	.30	7.62	2500	10000
C261X035Y1T	White, non-adhesive polyester label, *Mini-Com*® 4-port identifier. Application codes: FP and PP.	2.61	66.29	.35	8.89	2500	10000
C275X125YPT	White, adhesive polyester label, general identifier. Application code: RK.	2.75	69.85	1.25	31.75	2500	10000
C275X125Y0T	Black, adhesive polyester label, general identifier. Application code: RK.	2.75	69.85	1.25	31.75	2500	10000
C288X030YPT	White, adhesive polyester label, double gang faceplate identifier. Application code: FP.	2.88	73.15	.30	7.62	2500	2500
C315X030YPT	White, adhesive polyester label, *Mini-Com*® 5-port identifier. Application code: FP.	3.15	80.01	.30	7.62	2500	2500
C379X030YPT	White, adhesive polyester label, *Mini-Com*® 6-port identifier. Application code: FP.	3.79	96.27	.30	7.62	2500	10000
C379X030YPT-P‡	White, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	3.79	96.27	.30	7.62	2500	10000
C379X030YQT-P‡	Blue, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	3.79	96.27	.30	7.62	2500	10000
C379X030YRT-P‡	Brown, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	3.79	96.27	.30	7.62	2500	10000
C379X030YST-P‡	Green, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	3.79	96.27	.30	7.62	2500	10000
C379X030YTT-P‡	Gray, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	3.79	96.27	.30	7.62	2500	10000
C379X030YUT-P‡	Orange, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	3.79	96.27	.30	7.62	2500	10000
C379X030YVT-P‡	Purple, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	3.79	96.27	.30	7.62	2500	10000
C379X030YWT-P‡	Red, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	3.79	96.27	.30	7.62	2500	10000
C379X030Y0T-P‡	Black, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	3.79	96.27	.30	7.62	2500	10000
C379X030Y9T-P‡	Gold, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	3.79	96.27	.30	7.62	2500	10000
C379X030Y8T-P‡	Yellow, adhesive polyester label, *Mini-Com*® perforated port identifier. Application codes: BX, FP, and PP.	3.79	96.27	.30	7.62	2500	10000
C390X030Y1T	White, non-adhesive polyester label, *Mini-Com*® 6-port identifier. Application code: PP.	3.90	99.06	.30	7.62	2500	10000
C750X050Y1T	White, non-adhesive polyester label, 110 block identifier. Application code: PB.	7.50	190.50	.50	12.70	2500	10000
C788X050Y1T	White, non-adhesive polyester label, GP6 System identifier. Application code: GP.	7.88	200.15	.50	12.70	2500	10000

*Label is perforated to be used in 1, 2, 3 or 4-position applications.
‡Label is perforated to be used in 1, 2, 3, 4, 5 or 6-position applications.
Order number of labels required in multiples of Std. Pkg. Qty.
Labels roll mounted on 3.00" cores; when using the TDP43MY printer and 3.00" cores, the roll stand (TDP43M-RS) is required.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Self-Laminating Labels for TDP43MY Thermal Transfer Desktop Printer Supplied on Rolls



- Self-laminating adhesive labels supplied on rolls, include a colored print-on area and clear overlaminate
- Use with *PANDUIT* RMH4BL hybrid thermal transfer ribbon

Part Number	Part Description	Width		Length		Print-On Height		Min. Cable O.D.		Max. Cable O.D.		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In	mm		
S050X075VATY*	White print-on area, vinyl label for 18 – 14 AWG wires.	.50	12.70	.75	19.05	.25	6.35	.12	3.07	.16	4.04	5000	40000
S050X125VATY*	White print-on area, vinyl label for 12 – 10 AWG wires.	.50	12.70	1.25	31.75	.38	9.65	.12	3.07	.28	7.03	5000	10000
S050X150VATY*	White print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	.50	12.70	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	40000
S075X075VATY	White print-on area, vinyl label for 18 – 14 AWG wires.	.75	19.05	.75	19.05	.25	6.35	.12	3.07	.16	4.04	5000	20000
S075X125VATY	White print-on area, vinyl label for 12 – 10 AWG wires.	.75	19.05	1.25	31.75	.38	9.65	.12	3.07	.28	7.03	5000	20000
S075X150VATY	White print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	.75	19.05	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	20000
S100X075VATY*	White print-on area, vinyl label for 18 – 14 AWG wires.	1.00	25.40	.75	19.05	.25	6.35	.08	2.02	.16	4.04	5000	10000
S100X125VATY*	White print-on area, vinyl label for 12 – 10 AWG wires.	1.00	25.40	1.25	31.75	.38	9.65	.12	3.07	.28	7.03	5000	10000
S100X150VATY*	White print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	20000
S100X150VBTY	Blue print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	20000
S100X150VCTY	Brown print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	20000
S100X150VDTY	Green print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	20000
S100X150VETY	Gray print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	20000
S100X150VFTY	Orange print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	20000
S100X150VGTY	Purple print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	20000
S100X150VHTY	Red print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	20000
S100X150VITY	Yellow print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	20000

Order number of labels required in multiples of Std. Pkg. Qty.
Labels are roll mounted on 3.00" cores; when using the TDP43MY printer and 3.00" cores, the roll stand (TDP43M-RS) is required.
*For labels mounted on 1.00" cores replace suffix TY with 1Y.

Table continues on page O.12

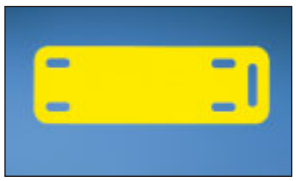
Self-Laminating Labels for TDP43MY Thermal Transfer Desktop Printer Supplied on Rolls (continued)

Part Number	Part Description	Width		Length		Print-On Height		Min. Cable O.D.		Max. Cable O.D.		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In	mm		
S100X150V0TY	Black print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	20000
S100X150V9TY	Gold print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	20000
S100X225VATY*	White print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	5000	20000
S100X225VBTY	Blue print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.32	12.13	5000	20000
S100X225VCTY	Brown print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.32	12.13	5000	20000
S100X225VDTY	Green print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.32	12.13	5000	20000
S100X225VETY	Gray print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.32	12.13	5000	20000
S100X225VFTY	Orange print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	5000	20000
S100X225VGTY	Purple print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.32	12.13	5000	20000
S100X225VHTY	Red print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.32	12.13	5000	20000
S100X225VITY	Yellow print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.32	12.13	5000	20000
S100X225V0TY	Black print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.32	12.13	5000	20000
S100X225V9TY	Gold print-on area, vinyl label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	5000	20000
S100X400VATY*	White print-on area, vinyl label for 2 – 1 AWG wires.	1.00	25.40	4.00	101.60	1.00	25.40	.32	8.09	.95	24.26	2500	12500
S100X650VATY*	White print-on area, vinyl label for 1/0 – 250 MCM wires.	1.00	25.40	6.50	165.10	1.50	38.10	.48	12.13	1.59	40.43	1000	2000
S150X150VATY	White print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	1.50	38.10	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	20000
S150X225VATY	White print-on area, vinyl label for 8 – 4 AWG wires.	1.50	38.10	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	5000	20000
S150X400VATY	White print-on area, vinyl label for 2 – 1 AWG wires.	1.50	38.10	4.00	101.60	1.00	25.40	.32	8.09	.95	24.26	2500	10000
S200X150VATY	White print-on area, vinyl label for Cat. 5e/Cat. 6/ Cat. 6A cables.	2.00	50.80	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	5000	20000
S200X225VATY*	White print-on area, vinyl label for 8 – 4 AWG wires.	2.00	50.80	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	1000	4000
S200X400VATY*	White print-on area, vinyl label for 2 – 1 AWG wires.	2.00	50.80	4.00	101.60	1.00	25.40	.32	8.09	.95	24.26	1000	3000
S200X650VATY*	White print-on area, vinyl label for 1/0 – 250 MCM wires.	2.00	50.80	6.50	165.10	1.50	38.10	.48	12.13	1.59	40.43	1000	2000

Order number of labels required in multiples of Std. Pkg. Qty.
Labels are roll mounted on 3.00" cores; when using the TDP43MY printer and 3.00" cores, the roll stand (TDP43M-RS) is required.
*For labels mounted on 1.00" cores replace suffix TY with 1Y.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Marker Plates for TDP43MY Thermal Transfer Desktop Printer Supplied on Rolls



- Non-adhesive marker plates offer crisp, clear legends with superior legibility
- Attachable in a horizontal or vertical orientation
- Available in a variety of colors and sizes
- Use with *PANDUIT* RMR4BL resin thermal transfer ribbon

Part Number	Part Description	Width		Height		Print-On Area Width		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm		
M300X100Y6T	Yellow, thermal transfer marker plate.	3.00	76.20	1.00	25.40	1.80	45.70	1	4
M300X100Y7T	White, thermal transfer marker plate.	3.00	76.20	1.00	25.40	1.80	45.70	1	4
M300X050Y6T	Yellow, thermal transfer marker plate.	3.00	76.20	.50	12.70	1.80	45.70	1	4
M300X050Y7T	White, thermal transfer marker plate.	3.00	76.20	.50	12.70	1.80	45.70	1	4
M200X100Y6T	Yellow, thermal transfer marker plate.	2.00	50.80	1.00	25.40	.80	20.30	1	4
M200X100Y7T	White, thermal transfer marker plate.	2.00	50.80	1.00	25.40	.80	20.30	1	4
M200X050Y6T	Yellow, thermal transfer marker plate.	2.00	50.80	.50	12.70	1.07	27.30	1	4
M200X050Y7T	White, thermal transfer marker plate.	2.00	50.80	.50	12.70	1.07	27.30	1	4

Order number of marker plates required in multiples of Std. Pkg. Qty.

Raised Panel Labels for TDP43MY Thermal Transfer Desktop Printer Supplied on Rolls

- Raised thermal transfer printable surface with high-tack adhesive for strong holding power
- Variety of sizes and colors for a wide range of applications
- Thermal transfer print technology provides crisp, clear, and durable text
- Use with *PANDUIT* RMR4BL and RMR4WH resin thermal transfer ribbons

Part Number	Part Description	Width		Height		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm		
C100X050APT	White, raised panel component label.	1.00	25.4	0.50	12.7	1	4
C100X050A0T	Black, raised panel component label.	1.00	25.4	0.50	12.7	250	1000
C200X100APT	White, raised panel component label.	2.00	50.8	1.00	25.4	1	4
C200X100A0T	Black, raised panel component label.	2.00	50.8	1.00	25.4	250	1000
C400X100APT	White, raised panel component label.	4.00	101.6	1.00	25.4	1	4
C400X100A0T	Black, raised panel component label.	4.00	101.6	1.00	25.4	250	1000
C400X100AST	Green, raised panel component label.	4.00	101.6	1.00	25.4	250	1000
C252X030APT	White, raised panel component label.	2.52	64.0	0.30	7.62	250	1000
C379X030APT	White, raised panel component label.	3.79	96.3	0.30	7.62	250	1000

Order number of labels required in multiples of Std. Pkg. Qty.

EASY-MARK™ Labeling Software

- *EASY-MARK*™ Labeling Software simplifies label creation for the specific needs of your applications
- Instructions and user interface are available in English, French, German, Italian, Spanish, Korean, Chinese and Portuguese
- Intuitive interview process allows automatic generation of labels and signs
- Software selects and formats the optimum label for your specific application
- **WYSIWYG** (What You See Is What You Get) user interface, alpha/numeric serialization, data import, symbol import
- *EASY-MARK*™ Labeling Software is part of a complete line of innovative identification solutions from *PANDUIT*
- Supports most WINDOWS^ fonts drivers for standard thermal transfer, dot matrix, laser and ink jet, including *PANDUIT* thermal transfer printers

System Requirements:

- WINDOWS^ 2000, WINDOWS^ XP, or WINDOWS^ Vista; 64 MB hard drive space and 64 MB RAM (256 MB RAM Recommended)



NEW!

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PROG-EMCD3	*EASY-MARK*™ Labeling Software, supplied on CD-ROM.	1	10
PROG-EM2GO	*EASY-MARK*™ Portable Application, USB Flash Drive.	1	10

^WINDOWS is a registered trademark of Microsoft Corporation in the United States and/or other countries.

CAD-CONNECT™ Labeling Software

- Generates labels quickly and easily directly from electronic CAD files
- Eliminates steps and time spent manually copying CAD identifiers into labeling software
- Program combines the power of an innovative wizard interview and *EASY-MARK*™ Labeling Software to capture and organize identifiers from electronic CAD files to automatically create and print labels
- Compatible with full versions of AutoCAD* 2000i or newer, AutoCAD Mechanical 2007, and Visio^ 2002 or newer
- Exports to alternative formats such as EXCEL^ (XLS) or Text (CSV) files for future use and documentation

System Requirements:

- WINDOWS^ 2000, WINDOWS^ XP, or WINDOWS^ Vista; 64 MB hard drive space and 64 MB RAM (256 MB RAM recommended)



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PROG-CCCD	*CAD-CONNECT*™ Labeling Software, including *EASY-MARK*™ Labeling Software, supplied on CD-ROM.	1	10

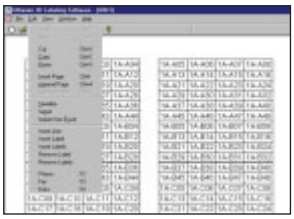
*AutoCAD is a registered trademark of Autodesk, Inc.
^Visio, WINDOWS, and EXCEL are registered trademarks of Microsoft Corporation in the United States and/or other countries.

ULTIMATE ID® Network System Labeling Software

- *ULTIMATE ID*® software is part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements; reference pages A1.5 – A1.7 for a complete system overview
- Fast and easy creation of labels for *ULTIMATE ID*® Network Labeling System patch panels, faceplates, surface mount boxes and marker ties
- Create alpha and numeric serializations
- ODBC (open data-base connectivity) allows importing of information from electronic databases such as EXCEL^ and ACCESS^ directly onto the label formats
- *ULTIMATE ID*® System formats are preloaded and ready to use
- On-line help function files, including the TIA/EIA-606-A Labeling Compliance Brochure assist in understanding the TIA/EIA-606-A standard
- Easy to install and supplied on CD-ROM
- Image library that includes commonly used symbols for fax, data, and voice
- Automatically aligns legends with ports on patch panels and faceplates
- Vertical line function enables users to separate legends
- Automatic font sizing
- Supports most WINDOWS^ printer drivers and is compatible with standard desktop laser and ink jet printers

System Requirements:

- WINDOWS^ 95, WINDOWS^ 98, WINDOWS^ Me, WINDOWS^ 2000, WINDOWS^ NT 4.x, WINDOWS^ XP, and WINDOWS^ Vista; minimum 486 processor; minimum 10 MB of RAM; 30 MB hard drive space



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
UISW	*ULTIMATE ID*® Labeling Software, supplied on CD-ROM.	1	10

^WINDOWS, EXCEL, and ACCESS are registered trademarks of Microsoft Corporation in the United States and other countries.

ULTIMATE ID® Network System Laser/Ink Jet Labels



- Labels can be printed in both laser and ink jet printers
- Designed to efficiently support TIA/EIA-606-A standard labeling requirements
- Laser and ink jet labels for use with *ULTIMATE ID*® Faceplates, Patch Panels, Marker Ties, Modular Furniture Faceplate and Surface Mount Boxes
- Durable multi-layer construction
- Non-adhesive labels are easily removed from 8.5" x 11" label sheets
- Unique non-adhesive material configuration
- *ULTIMATE ID*® Labels are part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labeling requirements

Part Number‡	Part Description	Width		Height		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm		
UILJ1	White, non-adhesive polyester labels, 264 per sheet, 1-port labels.	.680	17.27	.236	6.00	5	50
UILJ2	White, non-adhesive polyester labels, 132 per sheet, 2-port labels.	1.315	33.40	.236	6.00	5	50
UILJ3	White, non-adhesive polyester labels, 99 per sheet, 3-port labels.	1.950	49.53	.236	6.00	5	50
UILJ4	White, non-adhesive polyester labels, 66 per sheet, 4-port labels.	2.585	65.66	.236	6.00	5	50
UILJ6	White, non-adhesive polyester labels, 66 per sheet, 6-port labels.	3.855	97.92	.236	6.00	5	50
UILJCOMBO	White, non-adhesive polyester labels, combination sheet with 40 1-port, 60 2-port, 3 3-port and 24 4-port labels.	—	—	.236	6.00	5	50

Order number of sheets required in multiples of Std. Pkg. Qty.
‡Add EI to end of part number for Electrical Ivory labels.

Component Labels for Laser/Ink Jet Desktop Printers Supplied on 8.5" x 11" Sheets



- Labels can be printed in both laser and ink jet printers
- Use for identifying patch panels, faceplates, punchdown blocks and other network systems hardware
- Die-cut labels designed to provide maximum aesthetic quality and appearance
- Available in adhesive polyolefin and non-adhesive polyester materials

Application Description	Typical Application Page	Code
Boxes – Surface Mount, Outlet, Hybrid	G.24	BX
Faceplates	G.2	FP
GP6™ Category 6 Punchdown Blocks	B.60	GP
Jack Modules	B.5	JM

Application Description	Typical Application Page	Code
Punchdown Blocks – 110	B.68	PB
Patch Panels	B.15	PP
Racks and Cabinets	I.9	RK
Cable Marker Holder – SLCT	B.77	SL

Part Number	Part Description	Width		Height		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm		
C061X030FJJ	White, adhesive polyolefin label, *Mini-Com®* 1-port identifier. Application codes: BX, FP, and PP.	.61	15.49	.30	7.62	5000	25000
C125X030FJJ	White, adhesive polyolefin label, *Mini-Com®* 2-port identifier. Application codes: BX, FP, and PP.	1.25	31.75	.30	7.62	2500	12500
C138X019FJJ	White, adhesive polyolefin label, *Mini-Com®* module identifier. Application code: JM.	1.38	35.05	.19	4.83	2500	12500
C188X030FJJ	White, adhesive polyolefin label, *Mini-Com®* 3-port identifier. Application code: FP.	1.88	47.75	.30	7.62	1000	5000
C195X040Y1J	White, non-adhesive polyester label, single-gang faceplate. Application code: FP.	1.95	49.53	.40	10.16	1000	5000
C200X100FJJ	White, adhesive polyolefin label, SLCT bundle marker identifier. Application code: SL.	2.00	50.80	1.00	25.40	1000	5000
C252X030FJJ	White, adhesive polyolefin label, *Mini-Com®* 4-port identifier. Application codes: BX, FP, and PP.	2.52	64.01	.30	7.62	1000	5000
C261X030FJJ	White, adhesive polyolefin label, *Mini-Com®* 4-port identifier. Application codes: FP and PP.	2.61	66.29	.30	7.62	1000	5000
C261X035Y1J	White, non-adhesive polyester label, *Mini-Com®* 4-port identifier. Application codes: FP and PP.	2.61	66.29	.35	8.89	1000	5000
C282X030Y1J	White, non-adhesive polyester label, *Mini-Com®* 4-port identifier. Application codes: FP and PP.	2.82	71.63	.30	7.62	1000	5000
C288X040Y1J	White, non-adhesive polyester label, double-gang faceplate. Application code: FP.	2.88	73.15	.40	10.16	1000	5000
C315X030FJJ	White, adhesive polyolefin label, *Mini-Com®* 5-port identifier. Application code: FP.	3.15	80.01	.30	7.62	1000	5000
C379X030FJJ	White, adhesive polyolefin label, *Mini-Com®* 6-port identifier. Application code: FP.	3.79	96.27	.30	7.62	1000	5000
C390X030Y1J	White, non-adhesive polyester label, *Mini-Com®* 6-port identifier. Application code: PP.	3.90	99.06	.30	7.62	1000	5000
C750X050Y1J	White, non-adhesive polyester label, 110 block identifier. Application code: PB.	7.50	190.50	.50	12.70	500	2500
C788X050Y1J	White, non-adhesive polyester label, *GP6™* System identifier. Application code: GP.	7.88	200.15	.50	12.70	500	2500

Order number of labels required in multiples of Std. Pkg. Qty.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Self-Laminating Labels for Laser/Ink Jet Desktop Printers Supplied on 8.5" x 11" Sheets



- Labels can be printed in both laser and ink jet printers
- Self-laminating adhesive labels include a colored print-on area and clear overlaminate

Part Number	Part Description	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm		
S050X075YAJ	White print-on area, polyester label for 18 – 14 AWG wire.	.50	12.70	.75	19.05	.25	6.35	.12	3.03	.16	4.04	5000	25000
S050X125YAJ	White print-on area, polyester label for 12 – 10 AWG wire.	.50	12.70	1.25	31.75	.38	9.65	.12	3.03	.28	7.03	5000	25000
S050X150YAJ	White print-on area, polyester label for Cat. 5e/ Cat. 6/Cat. 6A cables.	.50	12.70	1.50	38.10	.50	12.70	.16	4.07	.32	8.09	5000	25000
S075X075YAJ	White print-on area, polyester label for 18 – 14 AWG wire.	.75	19.05	.75	19.05	.25	6.35	.08	2.02	.16	4.04	2500	10000
S075X125YAJ	White print-on area, polyester label for 12 – 10 AWG wire.	.75	19.05	1.25	31.75	.38	9.65	.12	3.07	.28	7.03	2500	10000
S075X150YAJ	White print-on area, polyester label for Cat. 5e/ Cat. 6/Cat. 6A cables.	.75	19.05	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	2500	10000
S100X075YAJ	White print-on area, polyester label for 18 – 14 AWG wire.	1.00	25.40	.75	19.05	.25	6.35	.08	2.02	.16	4.07	2500	10000
S100X125YAJ	White print-on area, polyester label for 12 – 10 AWG wire.	1.00	25.40	1.25	31.75	.38	9.65	.12	3.07	.28	7.03	2500	10000
S100X150YAJ	White print-on area, polyester label for Cat. 5e/ Cat. 6/Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	2500	10000
S100X150YBJ	Blue print-on area, polyester label for Cat. 5e/ Cat. 6/Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	2500	10000
S100X150YCJ	Brown print-on area, polyester label for Cat. 5e/ Cat. 6/Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	2500	10000
S100X150YDJ	Green print-on area, polyester label for Cat. 5e/ Cat. 6/Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	2500	10000
S100X150YEJ	Gray print-on area, polyester label for Cat. 5e/ Cat. 6/Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	2500	10000
S100X150YFJ	Orange print-on area, polyester label for Cat. 5e/ Cat. 6/Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	2500	10000
S100X150YGJ	Purple print-on area, polyester label for Cat. 5e/ Cat. 6/Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	2500	10000
S100X150YHJ	Red print-on area, polyester label for Cat. 5e/ Cat. 6/Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	2500	10000
S100X150YIJ	Yellow print-on area, polyester label for Cat. 5e/ Cat. 6/Cat. 6A cables.	1.00	25.40	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	2500	10000

Order number of labels required in multiples of Std. Pkg. Qty.

Self-Laminating Labels for Use with Laser/Ink Jet Desktop Printers Supplied on 8.5" x 11" Sheets (continued)

Part Number	Part Description	Width		Length		Print-On Area Height		Min. Cable O.D.		Max. Cable O.D.		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm		
S100X160YAJ	White print-on area, polyester label. For use with *LabelCore*™ Sleeves NWSLC-2Y and NWSLC-3Y.	1.00	25.40	1.60	40.64	.80	20.32	.25	6.35	.25	6.35	2500	10000
S100X220YAJ	White print-on area, polyester label. For use with *LabelCore*™ Sleeves NWSLC-7Y.	1.00	25.40	2.20	55.88	1.10	27.94	.35	8.89	.35	8.89	1000	5000
S100X225YAJ	White print-on area, polyester label for 8 – 4 AWG wire.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	1000	5000
S100X225YBJ	Blue print-on area, polyester label for 8 – 4 AWG wire.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	1000	5000
S100X225YCJ	Brown print-on area, polyester label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	1000	5000
S100X225YDJ	Green print-on area, polyester label for 8 – 4 AWG wire.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	1000	5000
S100X225YEJ	Gray print-on area, polyester label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	1000	5000
S100X225YFJ	Orange print-on area, polyester label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	1000	5000
S100X225YGJ	Purple print-on area, polyester label for 8 – 4 AWG wires.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	1000	5000
S100X225YHJ	Red print-on area, polyester label for 8 – 4 AWG wire.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	1000	5000
S100X225YIJ	Yellow print-on area, polyester label for 8 – 4 AWG wire.	1.00	25.40	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	1000	5000
S100X400YAJ	White print-on area, polyester label for 2 – 1 AWG wire.	1.00	25.40	4.00	101.60	1.00	25.40	.32	8.09	.95	24.26	1000	5000
S100X650YAJ	White print-on area, polyester label for 1/0 – 350 MCM wires.	1.00	25.40	6.50	165.10	1.50	38.10	.48	12.13	1.59	40.43	1000	5000
S150X400YAJ	White print-on area, polyester label for 2 – 1 AWG wires.	1.50	38.10	4.00	101.60	1.00	25.40	.32	8.09	.95	24.26	1000	5000
S150X400YIJ	Yellow print-on area, polyester label for 2 – 1 AWG wires.	1.50	38.10	4.00	101.60	1.00	25.40	.32	8.09	.95	24.26	1000	5000
S200X150YAJ	White print-on area, polyester label for Cat. 5e/ Cat. 6/Cat. 6A cables.	2.00	50.80	1.50	38.10	.50	12.70	.16	4.04	.32	8.09	1000	5000
S200X225YAJ	White print-on area, polyester label for 8 – 4 AWG wire.	2.00	50.80	2.25	57.15	.75	19.05	.24	6.06	.48	12.13	1000	5000
S200X400YAJ	White print-on area, polyester label for 2 – 1 AWG wire.	2.00	50.80	4.00	101.60	1.00	25.40	.32	8.09	.95	24.26	1000	5000
S200X650YAJ	White print-on area, polyester label for 1/0 – 350 MCM wires.	2.00	50.80	6.50	165.10	1.50	38.10	.48	12.13	1.59	40.43	500	2500

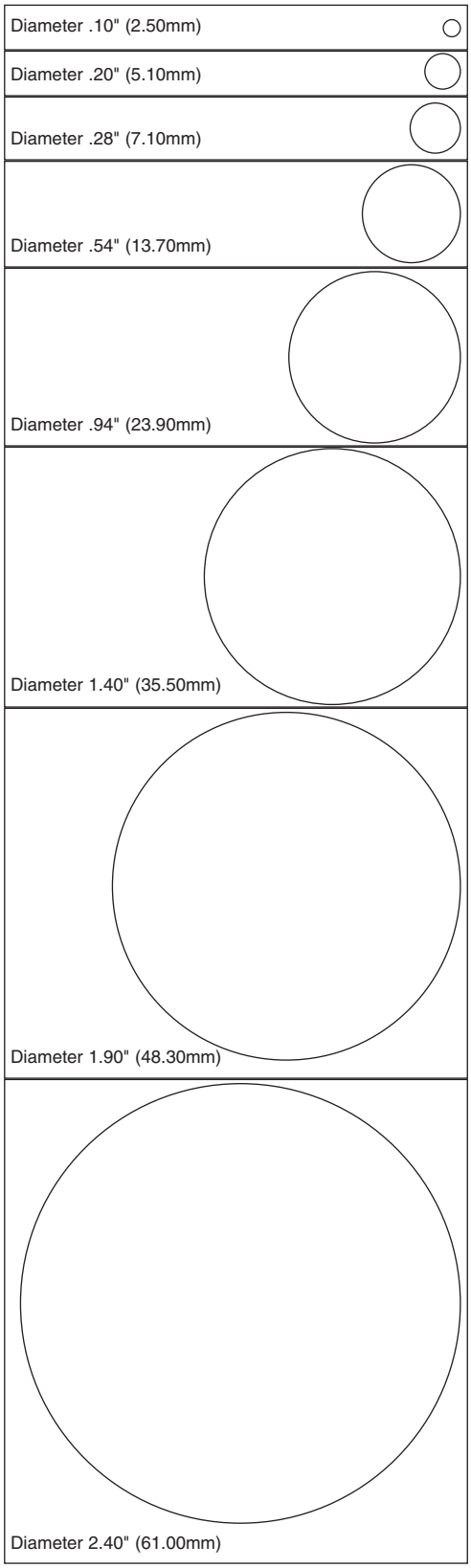
Order number of labels required in multiples of Std. Pkg. Qty.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Wire Size Selection Guide

To use this guide place your wire or cable in the appropriate circle to determine wire, outside diameter.



The charts below indicate the approximate cable outside diameter or various electrical and communication cables.

Electrical Cables

Approximate Wire Outside Diameter In. (mm)

Size	TF	THW	TW	TFN/THHN/ THWN
18 AWG	.11 (2.80)	.11 (2.80)	.11 (2.80)	.09 (2.30)
16 AWG	.12 (3.00)	.12 (3.00)	.12 (3.00)	.10 (2.50)
14 AWG	.13 (3.30)	.16 (4.10)	.16 (4.10)	.10 (2.50)
12 AWG	.15 (3.80)	.18 (4.60)	.18 (4.60)	.12 (3.00)
10 AWG	.17 (4.30)	.20 (5.10)	.20 (5.10)	.15 (3.80)
8 AWG	.24 (6.10)	.28 (7.10)	.28 (7.10)	.22 (5.60)
6 AWG	.32 (8.10)	.32 (8.10)	.32 (8.10)	.26 (6.60)
4 AWG	.37 (9.40)	.37 (9.40)	.37 (9.40)	.33 (8.40)
3 AWG	.40 (10.20)	.40 (10.20)	.40 (10.20)	.36 (9.10)
2 AWG	.43 (10.90)	.43 (10.90)	.43 (10.90)	.39 (9.90)
1AWG	.51 (12.90)	.51 (12.90)	.51 (12.90)	.45 (11.40)
1/0	.55 (14.00)	.55 (14.00)	.55 (14.00)	.49 (12.40)
2/0	.59 (15.00)	.59 (15.00)	.59 (15.00)	.54 (13.70)
3/0	.65 (16.50)	.65 (16.50)	.65 (16.50)	.59 (15.00)
4/0	.70 (17.80)	.70 (17.80)	.70 (17.80)	.65 (16.50)
250 MCM	.79 (20.10)	.79 (20.10)	.79 (20.10)	.72 (18.30)
300 MCM	.84 (21.30)	.84 (21.30)	.84 (21.30)	.77 (19.60)
350 MCM	.89 (22.60)	.89 (22.60)	.89 (22.60)	.82 (20.80)
400 MCM	.94 (23.90)	.94 (23.90)	.94 (23.90)	.87 (22.10)
500 MCM	1.03 (26.20)	1.03 (26.20)	1.03 (26.20)	.95 (24.10)
600 MCM	1.14 (29.00)	1.14 (29.00)	1.14 (29.00)	1.06 (26.90)
700 MCM	1.21 (30.70)	1.21 (30.70)	1.21 (30.70)	1.13 (28.70)
750 MCM	1.25 (31.80)	1.25 (31.80)	1.25 (31.80)	1.16 (29.50)
800 MCM	1.28 (32.50)	1.28 (32.50)	1.28 (32.50)	1.20 (30.50)
900 MCM	1.34 (34.00)	1.34 (34.00)	1.34 (34.00)	1.26 (32.00)
1000 MCM	1.40 (35.60)	1.40 (35.60)	1.40 (35.60)	1.32 (33.50)
1250 MCM	1.58 (40.10)	1.58 (40.10)	1.58 (40.10)	
1500 MCM	1.70 (43.20)	1.70 (43.20)	1.70 (43.20)	
1750 MCM	1.82 (46.20)	1.82 (46.20)	1.82 (46.20)	
2000 MCM	1.92 (48.80)	1.92 (48.80)	1.92 (48.80)	

Category 3, Category 5e, and Category 6A Cable

	Category 3	Category 5e/6A			
Size	Voice Grade 24 AWG UTP	Data Grade 24 AWG UTP	Data Grade 24 AWG STP	Data Grade 22 AWG UTP	Data Grade 22 AWG STP
2 Pair	.12 (3.00)				
3 Pair	.15 (3.80)				
4 Pair	.19 (4.80)	.22 (5.60)	.25 (6.30)	.23 (5.80)	.29 (7.40)
25 Pair		.42 (10.70)	.51 (12.90)	.54 (13.70)	.63 (16.00)
50 Pair	.46 (11.70)	.66 (16.80)			
100 Pair	.63 (16.00)	.96 (24.40)			
300 Pair	1.07 (27.20)				

Coaxial Cable

Size	Coax
RG58/u	.19 (4.80)
RG59/u	.24 (6.10)
RG62A/u	.24 (6.10)
RG6/u	.27 (6.80)
RG11/u	.40 (10.20)

Fiber Optic Distribution (62.5/125)

Size	Non-Plenum	Plenum
6 Strand	.26 (6.60)	.18 (4.60)
8 Strand	.27 (6.90)	.18 (4.60)
12 Strand	.28 (7.10)	.21 (5.30)
18 Strand	.49 (12.4)	.47 (11.90)
24 Strand	.54 (13.70)	.52 (13.2)
36 Strand	.54 (13.70)	.52 (13.2)
48 Strand	.59 (15.00)	.56 (14.2)
72 Strand	.72 (18.30)	.71 (18.0)

A. System Overview
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J. Overhead & Underfloor Routing
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L. Cabinets, Racks & Cable Management
M. Grounding & Bonding
N. Industrial
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P. Cable Management Accessories
Q. Index

NOTES

WIRING DUCT

PANDUIT® *PANDUCT*® Wiring Duct is designed to manage, protect, and conceal cabling. Available in a wide selection of styles, sizes, colors and materials, *PANDUCT*® Wiring Duct meets a variety of application and environmental needs. For network cabling, *PANDUIT* provides solutions from backboard applications in the telecommunications room to cord management at the workstation. All *PANDUCT*® Wiring Ducts are UL Recognized and CSA Certified.





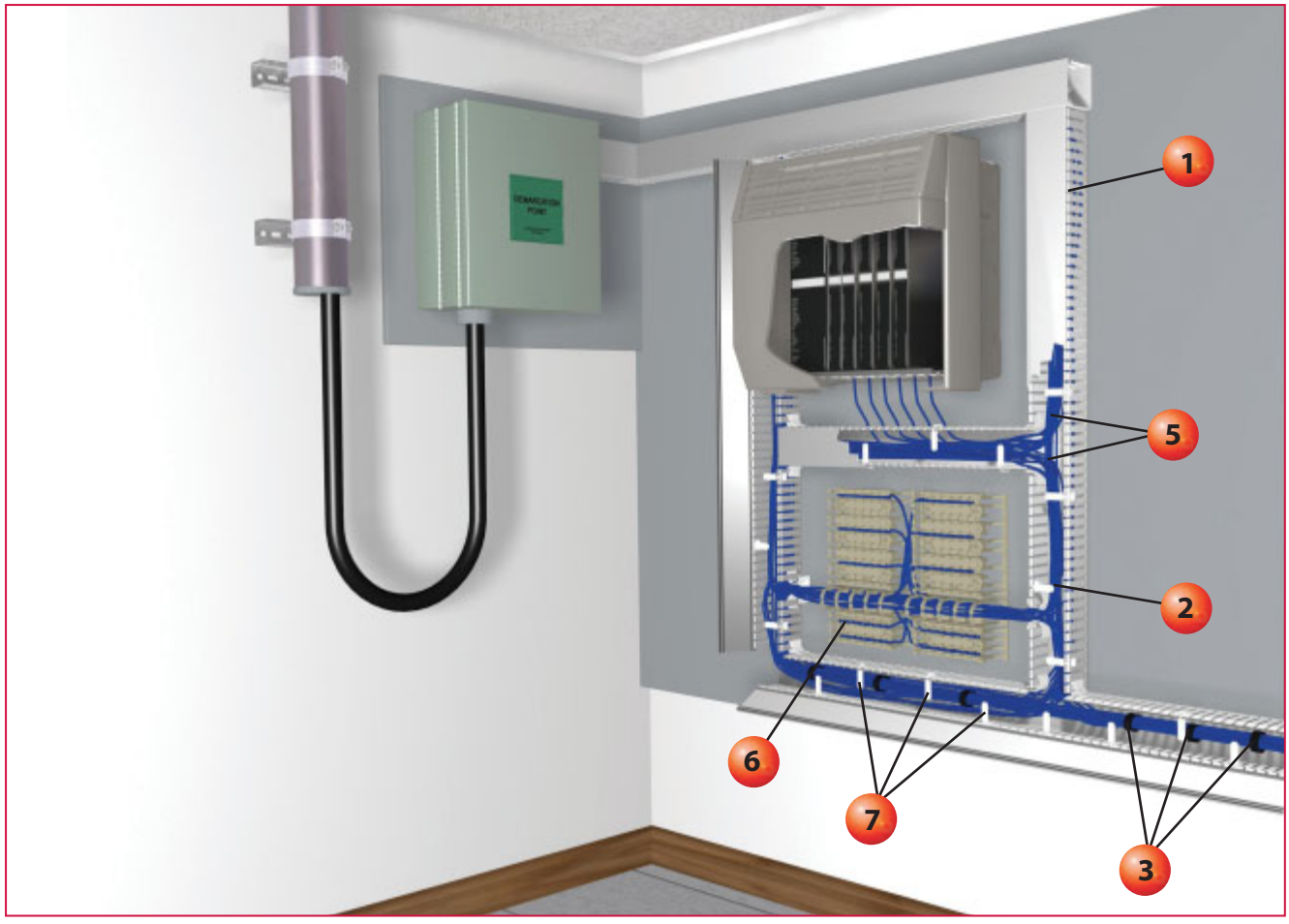


- **Type H, HN, and HS hinged cover wiring duct feature a dual-sided hinging cover for convenient channel access and prevents cover loss for superior aesthetics**
- **Type G wide slot PVC wiring duct is ideal for managing larger diameter cables and is available in a wide range of sizes in black color**
- **Type FS solid wall PVC raceway completely conceals and protects cabling for longer trunking runs where frequent breakouts are not required**
- **Type FL flexible wiring duct is made of a flexible polypropylene material to handle non-uniform mounting surfaces and reduce installation time**

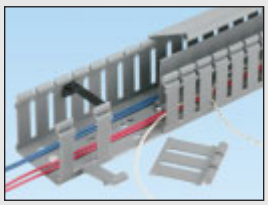
PANDUIT continues to lead the industry in the development of comprehensive cable management systems that deliver design flexibility, ease of installation, and lowest cost of ownership.
As part of the *PANDUIT* Industrial Automation Solution, *PANDUCT*® Wiring Duct offers safe and reliable system integration within the physical infrastructure.

A. System Overview
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K. Surface Raceway
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M. Grounding & Bonding
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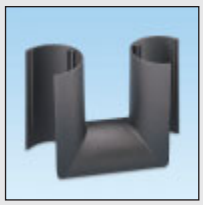
Wiring Duct for Backboard Mounted Applications Roadmap



1 *PANDUCT*® Type H Hinged Cover Wiring Duct
(page P.5)



2 *FIBER-DUCT*™ Bend Radius Control Trumpets
(page P.11)



3 *TAK-TAPE*™ Hook & Loop Strips
(page P.19)



4 *ULTRA-CINCH*™ Hook & Loop Ties *TAK-TY*® Hook & Loop Cable Ties
(pages P.16, P.18)



Wiring Duct for Cord Management at the Workstation Roadmap



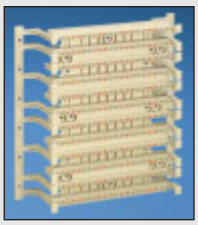
5 *PANDUCT*® **Bend Radius Control Strips** (page P.11)



7 *PANDUCT*® **Type G and H Wiring Duct Wire Retainers** (page P.9)



6 *GP6™ PLUS* **Punchdown System** (pages B.62 - B.63)



8 *TAK-TY*® **Hook & Loop Cable Tie Mounts** (page P.33)



NEW!

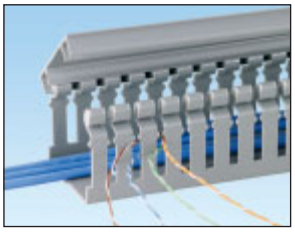
PANDUCT® Type HN Hinged Cover Narrow Slot Wiring Duct

Specifications:

- Material: Lead-free PVC
- UL Recognized continuous use temperature: 122°F (50°C)
- UL 94 flammability rating of V-0
- Conforms with NFPA 79-2007 section 13.3.1 requirement for flame retardant material
- Provided with mounting holes
- Base and cover length is 6'

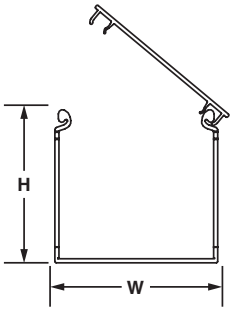
Features and Benefits

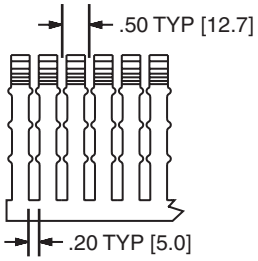
- Narrow slot and finger design provides excellent wire management with smaller wire diameters and high-density components
- Integrated hinged cover design allows easy access to wiring without hassle of removing and reinstalling cover
- Dual-sided hinge can open up to 100° from either sidewall of duct base for easy access to channel
- Cover retention flanges prevent cover from sliding when installed on duct base
- Double scoreline saves installation time and lowers installed cost
- Restricted slot design retains wire in slot for fast, easy wire installation or removal



Base Part Number	Duct Size (W x H*) In.	Duct Size (W x H*) mm	Cover Part Number	Std. Pkg. Qty. (Ft.)	Base Ctn. Qty. (Ft.)	Cover Ctn. Qty. (Ft.)
HN1.5X2LG6	1.75 x 1.98	44.5 x 50.3	**HC1.5LG6**	6	120	120
HN1.5X3LG6	1.75 x 3.06	44.5 x 77.7	**HC1.5LG6**	6	120	120
HN2X2LG6	2.17 x 1.98	55.1 x 50.3	**HC2LG6**	6	120	120
HN2X3LG6	2.17 x 3.06	55.1 x 77.7	**HC2LG6**	6	60	120
HN2X4LG6	2.17 x 4.10	55.1 x 104.1	**HC2LG6**	6	60	120
HN3X3LG6	3.25 x 3.06	82.6 x 77.7	**HC3LG6**	6	60	120
HN3X4LG6	3.25 x 4.10	82.6 x 104.1	**HC3LG6**	6	60	120
HN4X4LG6	4.25 x 4.10	108.0 x 104.1	**HC4LG6**	6	60	60

Part number shown for LG (Light Gray). Available in WH (White).
Base and cover sold separately.
*Height dimension includes duct with cover.
Order number of feet required, in multiples of 6' or Standard Carton Quantity.





Multiple Slot Restrictors Present with 2" and Greater Duct Wall Height

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

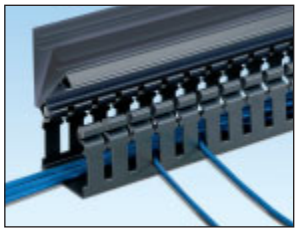
PANDUCT® Type H – Hinged Cover Wiring Duct

Specifications

- Material: Lead-free PVC
- UL Recognized continuous use temperature: 122°F (50°C)
- UL94 flammability rating of V-0
- Conforms with NFPA 79-2007 section 13.3.1 requirement for flame retardant material
- Provided with mounting holes
- Base and cover length is 6'

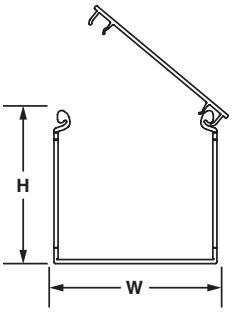
Features and Benefits

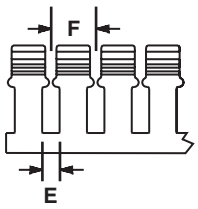
- Integrated hinged cover design allows easy access to wiring without hassle of removing and reinstalling cover
- Dual-sided hinge can open up to 100° from either sidewall of duct base for easy access to channel
- Cover retention flanges prevent cover from sliding when installed on duct base
- Double scoreline saves installation time and lowers installed cost
- Restricted slot design retains wire in slot for fast, easy wire installation or removal



Base Part Number	Duct Size (W x H) In.	Duct Size (W x H) mm	Cover Part Number	Std. Pkg. Qty. (Ft.)	Base Ctn. Qty. (Ft.)	Cover Ctn. Qty. (Ft.)
H1.5X2BL6	1.75 x 1.98	44.5 x 50.3	**HC1.5BL6**	6	120	120
H1.5X3BL6	1.75 x 3.06	44.5 x 77.7	**HC1.5BL6**	6	120	120
H2X2BL6	2.17 x 1.98	55.1 x 50.3	**HC2BL6**	6	120	120
H2X3BL6	2.17 x 3.06	55.1 x 77.7	**HC2BL6**	6	60	120
H2X4BL6	2.17 x 4.10	55.1 x 104.1	**HC2BL6**	6	60	120
H3X3BL6	3.25 x 3.06	82.6 x 77.7	**HC3BL6**	6	60	120
H3X4BL6	3.25 x 4.10	82.6 x 104.1	**HC3BL6**	6	60	120
H4X4BL6	4.25 x 4.10	108.0 x 104.1	**HC4BL6**	6	60	60

For other colors replace BL (Black) with LG (Light Gray) or WH (White).
Order number of feet required, in multiples of 6' or Standard Carton Quantity.
Base and cover sold separately.
Height dimension includes duct with cover.



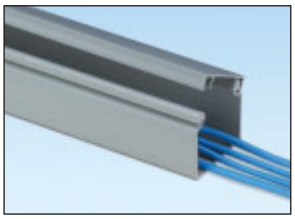


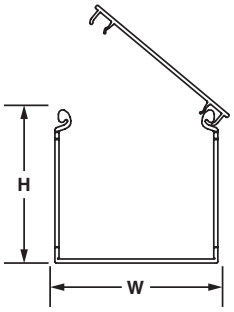
	E	F
For 2" Duct Height:	.31" (7.9)	.80" (20.3)
3" to 4" Height:	.31" (7.9)	1.00" (25.4)

PANDUCT® Type HS Hinged Cover Solid Wall Raceway

Specifications

- Material: Lead-free PVC
- Rated for continuous use temperature: 122°F (50°C)
- UL94 flammability rating V-0
- Conforms with NFPA 79-2007 section 13.3.1 requirement for flame retardant material
- Base and cover length is 6'





Base Part Number	Duct Size (W x H) In.	Duct Size (W x H) mm	Cover Part Number	Std. Pkg. Qty. (Ft.)	Base Ctn. Qty. (Ft.)	Cover Ctn. Qty. (Ft.)
HS1.5X2LG6NM	1.75 x 1.98	44.5 x 50.3	**HC1.5LG6**	6	120	120
HS1.5X3LG6NM	1.75 x 3.06	44.5 x 77.7	**HC1.5LG6**	6	60	120
HS2X2LG6NM	2.17 x 1.98	55.1 x 50.3	**HC2LG6**	6	120	120
HS2X3LG6NM	2.17 x 3.06	55.1 x 77.7	**HC2LG6**	6	60	120
HS2X4LG6NM	2.17 x 4.10	55.1 x 104.1	**HC2LG6**	6	60	120
HS3X3LG6NM	3.25 x 3.06	82.6 x 77.7	**HC3LG6**	6	60	120
HS3X4LG6NM	3.25 x 4.10	82.6 x 104.1	**HC3LG6**	6	60	120
HS4X4LG6NM	4.25 x 4.10	108.0 x 104.1	**HC4LG6**	6	60	60

Part numbers shown available in LG (Light Gray) and WH (White). 2 x 2 and 4 x 4 sizes available in BL (Black) colors.
Base and cover sold separately.
Height dimension includes duct with cover.
Order number of feet required, in multiples of 6' or Standard Carton Quantity.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

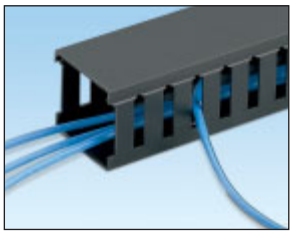
PANDUCT® Type G – Wide Slot Wiring Duct

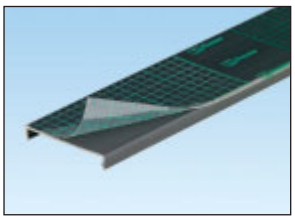
Specifications

- Material: Lead-free PVC
- UL Recognized continuous use temperature: 122°F (50°C)
- UL94 flammability rating of V-0
- Conforms with NFPA 79-2007 section 13.3.1 requirement for flame retardant material
- Provided with mounting holes
- Base and cover length is 6'

Features and Benefits

- Wide finger design provides greater rigidity and larger slot width
- *PANDUIT* exclusive rounded edges will not cut hands or abrade wiring insulation
- Non-slip cover will not slide easily when installed on duct base
- Flush cover design holds more wires than traditional duct designs
- Double scoreline saves installation time and lowers installed cost
- Specially formulated lead-free material eliminates health concerns associated with PVC that contains lead
- Restricted slot design retains wire in slot for fast, easy wire installation or removal

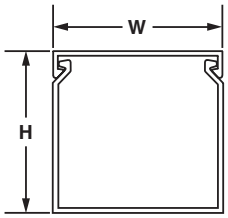


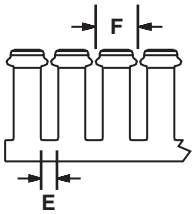


To order cover with protective film add "–F" to part number. 6" covers not available with protective film.

Base Part Number	Duct Size (W x H) In.	Duct Size (W x H) mm	Cover Part Number	Std. Pkg. Qty. (Ft.)	Base Ctn. Qty. (Ft.)	Cover Ctn. Qty. (Ft.)
G.75X2BL6	.93 x 2.03	23.6 x 51.7	C.75BL6	6	120	120
G1X1BL6	1.26 x 1.12	32.0 x 28.4	C1BL6	6	120	120
G1X1.5BL6	1.26 x 1.62	32.0 x 41.1	C1BL6	6	120	120
G1X2BL6	1.26 x 2.12	32.0 x 53.8	C1BL6	6	120	120
G1X3BL6	1.26 x 3.12	32.0 x 79.2	C1BL6	6	120	120
G1X4BL6	1.26 x 4.10	32.0 x 104.1	C1BL6	6	60	120
G1.5X1.5BL6	1.75 x 1.62	44.5 x 41.1	C1.5BL6	6	120	120
G1.5X2BL6	1.75 x 2.12	44.5 x 53.8	C1.5BL6	6	120	120
G1.5X3BL6	1.75 x 3.12	44.5 x 79.2	C1.5BL6	6	120	120
G1.5X4BL6	1.75 x 4.10	44.5 x 104.1	C1.5BL6	6	60	120
G2X1BL6	2.25 x 1.12	57.2 x 28.4	C2BL6	6	120	120
G2X2BL6	2.25 x 2.12	57.2 x 53.8	C2BL6	6	120	120
G2X3BL6	2.25 x 3.12	57.2 x 79.2	C2BL6	6	60	120
G2X4BL6	2.25 x 4.10	57.2 x 104.1	C2BL6	6	60	120
G2.5X3BL6	2.75 x 3.12	69.9 x 79.2	C2.5BL6	6	120	120
G3X2BL6	3.25 x 2.12	82.6 x 53.8	C3BL6	6	120	120
G3X3BL6	3.25 x 3.12	82.6 x 79.2	C3BL6	6	60	120
G3X4BL6	3.25 x 4.10	82.6 x 104.1	C3BL6	6	60	120
G4X2BL6	4.25 x 2.12	108.0 x 53.8	C4BL6	6	60	120
G4X3BL6	4.25 x 3.12	108.0 x 79.2	C4BL6	6	60	120
G4X4BL6	4.25 x 4.10	108.0 x 104.1	C4BL6	6	60	120
G4X5BL6	4.25 x 5.10	108.0 x 129.5	C4BL6	6	60	120

For other colors replace BL (Black) with LG (Light Gray) or WH (White).
Order number of feet required, in multiples of 6' or Standard Carton Quantity.
Height dimension includes duct with cover.
Base and cover sold separately.





	E	F
For .5" Duct Height:	.31" (9.4)	.80" (20.3)
.75" to 2" Duct Height:	.31" (7.9)	.80" (20.3)
3" to 4" Duct Height:	.31" (7.9)	1.00" (25.4)
5" Duct Height:	.38" (9.4)	1.33" (33.8)

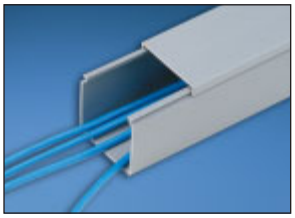
PANDUCT® Type FS Solid Wall Raceway

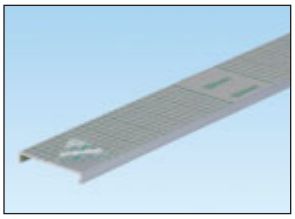
Specifications

- Material: Lead-free PVC
- UL Recognized continuous use temperature: 122°F (50°C)
- UL94 flammability rating of V-0
- Supplied without mounting holes
- Base and cover length is 6'

Features and Benefits

- Solid wall design fully encloses cables providing maximum protection and aesthetics
- Non-slip cover will not slide easily when installed on duct base
- Flush cover design holds more wires than traditional duct designs
- Base scoreline allows full wire carrying capacity at wiring duct junctions such as tees and corners
- Specially formulated lead-free material eliminates health concerns associated with PVC which contains lead





To order cover with protective film add "–F" to part number. Six inch cover not available with film.

	Base Part Number	Duct Size (W x H) In.	Duct Size (W x H) mm	Cover Part Number	Std. Pkg. Qty. (Ft.)	Base Ctn. Qty. (Ft.)	Cover Ctn. Qty. (Ft.)
>	**FS.5X.5LG6NM**	.69 x .60	17.5 x 15.2	**C.5LG6**	6	120	120
>	**FS.5X1LG6NM**	.69 x 1.06	17.5 x 26.9	**C.5LG6**	6	120	120
	FS.75X.75LG6NM	.93 x .82	23.6 x 20.8	**C.75LG6**	6	120	120
>	**FS1X1LG6NM**	1.26 x 1.12	32.0 x 28.4	**C1LG6**	6	120	120
>	**FS1X1.5LG6NM**	1.26 x 1.62	32.0 x 41.1	**C1LG6**	6	120	120
	FS1X2LG6NM	1.26 x 2.12	32.0 x 53.8	**C1LG6**	6	120	120
	FS1X3LG6NM	1.26 x 3.12	32.0 x 79.2	**C1LG6**	6	120	120
	FS1X4LG6NM	1.26 x 4.10	32.0 x 104.1	**C1LG6**	6	60	120
>	**FS1.5X1LG6NM**	1.75 x 1.12	44.5 x 28.4	**C1.5LG6**	6	120	120
>	**FS1.5X1.5LG6NM**	1.75 x 1.62	44.5 x 41.1	**C1.5LG6**	6	120	120
>	**FS1.5X2LG6NM**	1.75 x 2.12	44.5 x 53.8	**C1.5LG6**	6	120	120
>	**FS1.5X3LG6NM**	1.75 x 3.12	44.5 x 79.2	**C1.5LG6**	6	120	120
>	**FS2X1LG6NM**	2.25 x 1.12	57.2 x 28.4	**C2LG6**	6	120	120
	FS2X1.5LG6NM	2.25 x 1.62	57.2 x 41.1	**C2LG6**	6	120	120
>	**FS2X2LG6NM**	2.25 x 2.12	57.2 x 53.8	**C2LG6**	6	120	120
>	**FS2X3LG6NM**	2.25 x 3.12	57.2 x 79.2	**C2LG6**	6	60	120
	FS2X4LG6NM	2.25 x 4.10	57.2 x 104.1	**C2LG6**	6	60	120
>	**FS3X1LG6NM**	3.25 x 1.12	82.6 x 28.4	**C3LG6**	6	120	120
>	**FS3X2LG6NM**	3.25 x 2.12	82.6 x 53.8	**C3LG6**	6	120	120
>	**FS3X3LG6NM**	3.25 x 3.12	82.6 x 79.2	**C3LG6**	6	60	120
	FS3X4LG6NM	3.25 x 4.10	82.6 x 104.1	**C3LG6**	6	60	120
	FS3X5LG6NM	3.25 x 5.10	82.6 x 129.5	**C3LG6**	6	60	120
>	**FS4X2LG6NM**	4.25 x 2.12	108.0 x 53.8	**C4LG6**	6	60	120
>	**FS4X3LG6NM**	4.25 x 3.12	108.0 x 79.2	**C4LG6**	6	60	120
>	**FS4X4LG6NM**	4.25 x 4.10	108.0 x 104.1	**C4LG6**	6	60	120
>	**FS4X5LG6NM**	4.25 x 5.10	108.0 x 129.5	**C4LG6**	6	60	120
>	**FS6X4LG6NM**	6.25 x 4.15	158.8 x 105.4	**C6LG6**	6	60	120

>Indicates parts available with mounting holes. Remove NM from part number.
For other colors replace LG (Light Gray) with WH (White) or BL (Black), available in selected sizes.
Order number of feet required, in multiples of 6' or Standard Carton Quantity.
Height dimension includes duct with cover.
Base and cover sold separately.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

PANDUCT® Type FL Flexible Wiring Duct

Specifications

- Material: Flexible Polypropylene
- UL Recognized continuous use temperature: 149°F (65°C)
- UL94 flammability rating of V-2
- Factory applied adhesive tape provided for easy mounting
- Base and cover length is 19.7"

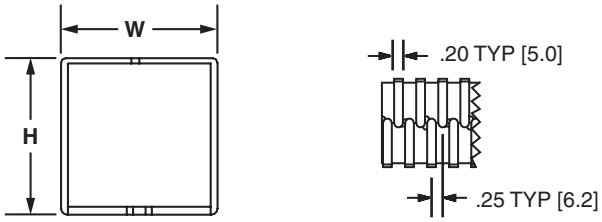
Features and Benefits

- The flexibility of type FL wiring duct allows it to be used in applications where conventional rigid PVC duct cannot
- One-piece design with enclosing fingers simplifies insertion and removal of wiring



Part Number	Duct Size (W x H)		Std. Pkg. Qty. (Pcs.)
	In.	mm	
FL12X12LG-A	.49 x .49	12.5 x 12.5	112
FL25X25LG-A	.98 x .98	25.0 x 25.0	70
FL50X50LG-A	1.97 x 1.97	50.0 x 50.0	32

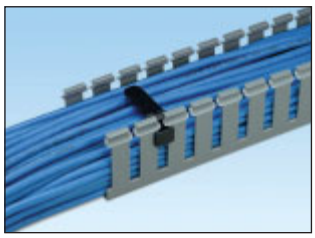
Available in LG (RAL 7040 Light Gray) color only.



PANDUCT® Type G and H Wiring Duct Wire Retainers

- Insert between fingers of type G and H wiring duct to contain wiring when cover is removed
- Adjustable height
- Material: ABS





Part Number	For Duct Width In. (mm)	For Duct Height In. (mm)	Std. Pkg. Qty. (Pcs.)	Std. Ctn. Qty. (Pcs.)
WR2-C	2.00 (50.8)	2.00 – 4.00 (50.8 – 101.6)	100	1000
WR2H-C*	2.00 (50.8)	2.00 – 4.00 (50.8 – 101.6)	100	1000
WR3-C	3.00 (76.2)	2.00 – 4.00 (50.8 – 101.6)	100	1000
WR4-C	4.00 (101.6)	2.00 – 4.00 (50.8 – 101.6)	100	1000
WR5-C	Use with: 3 x 5, 4 x 5, or 6 x 4	Use with: 3 x 5, 4 x 5, or 6 x 4	100	1000

*For 2" width type H hinged cover wiring duct use part No. WR2H-C.

Adhesive Tape

- Recommended installation temperature is 70°F (21°C)
- UL Recognized service temperature is 32°F (0°C) to 140°F (60°C)
- Optimum recommended dwell time for acrylic adhesive is 8 hours
- Recommended tape load is 1/2 lb. per square inch of tape area



Duct Size (W x H)	Tape Part Number	Roll Length		Std. Pkg. Qty.	Std. Ctn. Qty.
		Yds.	m		
.5 x .5 – 1.5 x 4	**P32W2A2-50-7**	7	6.4	1	100
	P32W2A2-50-72	72	65.5	1	9
2 x 1 – 3 x 3	**P32W2A2-50-7**	7	6.4	1	100
	P32W2A2-50-72	72	65.5	1	9
3 x 4 – 3 x 5	**P32W2A2-75-7**	7	6.4	1	60
	P32W2A2-75-72	72	65.5	1	7
4 x 1.5 – 4 x 3	**P32W2A2-50-7**	7	6.4	1	100
	P32W2A2-75-72	72	65.5	1	9
4 x 4 – 6 x 4	**P32W2A2-75-7**	7	6.4	1	60
	P32W2A2-75-72	72	65.5	1	7

Specifications For Tape Application

Duct Size (W x H)	Rows of Tape	Tape			
		Width		Thickness	
		In.	mm	In.	mm
.5 x .5 – .75 x 2	1	.50	12.7	.03	.8
1 x 1 – 1.5 x 4	1	.75	19.1	.03	.8
2 x 1 – 3 x 3	2	.50	12.7	.03	.8
3 x 4 – 3 x 5	2	.75	19.1	.03	.8
4 x 1.5 – 4 x 3	2	.50	12.7	.03	.8
4 x 4 – 6 x 4	2	.75	19.1	.03	.8

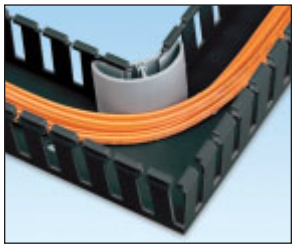
Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

PANDUCT® Duct Corner Strips with 1 Inch Bend Radius Control

- Create a strong rigid corner at wiring duct junctions
- Provide bend radius protection for cabling as required in NFPA 79-2007 section 13.1.5.9 and TIA/EIA-568-B and 569-A
- Available in five pre-cut sizes and 6 foot lengths that can be cut-to-size to meet any size requirement
- Easy to install two-piece design
- Compatible with all styles of *PANDUIT* wiring duct
- UL 94 flammability rating of V-0
- Material: Lead-free PVC





Part Number	Part Description	For Duct Height In.	For Duct Height mm	Color	Std. Pkg. Qty. (Pcs.)	Std. Ctn. Qty. (Pcs.)
6' Lengths for use with all Types of PVC Wiring Duct*						
CSC1LG6	Cut-to-size 6' corner strip with a 1" bend radius.	All sizes (Cut to duct height)	All sizes (Cut to duct height)	Light Gray	6	120
CSC1WH6	Cut-to-size 6' corner strip with a 1" bend radius.	All sizes (Cut to duct height)	All sizes (Cut to duct height)	White	6	120
Pre-Cut Pieces for use with all Types of PVC Wiring Duct						
CSPC1LG-Q	1" bend radius corner strip pre-cut for 1" wall height.	1.00	25.4	Light Gray	25	250
CSPC1.5LG-Q	1" bend radius corner strip pre-cut for 1.5" wall height (2.0" type H duct).	1.50	38.1	Light Gray	25	250
CSPC2LG-Q	1" bend radius corner strip pre-cut for 2" wall height.	2.00	50.8	Light Gray	25	250
CSPC3LG-Q	1" bend radius corner strip pre-cut for 3" wall height.	3.00	76.2	Light Gray	25	250
CSPC4LG-Q	1" bend radius corner strip pre-cut for 4" wall height.	4.00	101.6	Light Gray	25	250

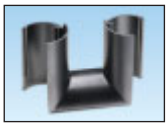
CSPC available in Light Gray color only.
*Order number of feet required, in multiples of 6' or Standard Package Quantity.

FIBER-DUCT™ Bend Radius Control Trumpets

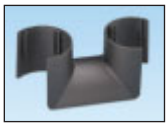
- Available for 2" and 4" wall height type G slotted wall wiring duct and type FS solid wall raceway
- TRC2HDBL is available for 2" wall height type H hinged cover wiring duct
- Provide method to transition cabling from wall mounted hardware to wiring duct channel
- Maintain complete 1" bend radius control



TRC2BL



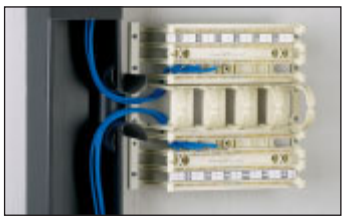
TRC4BL



TRC2HDBL



TRC4HDBL



Part Number	Part Description	For Duct Height In.	For Duct Height mm	Std. Pkg. Qty. (Pcs.)	Std. Ctn. Qty. (Pcs.)
TRC2BL	Bend radius control trumpet for exiting at the sidewall of 2" wall heights of type G, FS, or E *FIBER-DUCT*™ Channels.	2.00	50.8	1	10
TRC4BL	Bend radius control trumpet for exiting at the sidewall of 4" wall heights of type G, FS, or E *FIBER-DUCT*™ Channels.	4.00	101.6	1	10
TRC2HDBL	Bend radius control trumpet for exiting at the sidewall of 2" wall heights of type H hinged cover wiring duct channels.	2.00	50.8	1	10
TRC4HDBL	Bend radius control trumpet for exiting at the sidewall of 4" wall heights of type H hinged cover wiring duct channels.	4.00	101.6	1	10

All product color is black.

PANDUCT® Installation Tools

- DCT easily cuts any *PANDUCT*® Duct and Cover
- DNT-100 notches sidewalls to bottom scoreline for tees and corner junctions



DCT



DNT-100

Part Number	Part Description	Std. Pkg. Qty.
Duct Cutting Tool		
DCT	Hand-held duct cutting tool.	1
Duct Notching Tool (For use with all slotted duct types)		
DNT-100	Hand-held sidewall notching tool.	1

Always use approved safety goggles when using any tools.

PANDUCT® Type HN, H, and HS Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) Inches	Nominal Area In²	Electrical															Communication				
		8 AWG	10 AWG	12 AWG			14 AWG			16 AWG			18 AWG			22 AWG	23 AWG		23/24 AWG	24 AWG	Fiber Cable
		.216	.164	.130	.141	.152	.111	.124	.133	.096	.111	.118	.084	.100	.106	.085	.298	.289	.250	.187	.118
		THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A		Cat. 6	Cat. 5e	3.0 mm
1.50 x 2.00	3.000	34	60	95	81	70	131	105	91	175	131	116	229	162	144	224	18	19	25	46	116
1.50 x 3.00	4.500	52	90	143	122	105	197	158	137	263	197	174	344	243	216	336	27	29	38	69	174
2.00 x 2.00	4.000	46	80	127	108	93	175	140	122	234	175	155	306	216	192	299	24	25	34	61	154
2.00 x 3.00	6.000	69	120	191	163	140	263	210	183	351	263	232	459	324	288	448	36	38	51	92	232
2.00 x 4.00	8.000	92	160	255	217	187	350	281	244	469	350	310	612	432	384	598	48	51	69	123	309
3.00 x 3.00	9.000	104	180	287	244	210	394	316	275	527	394	349	689	486	432	673	54	58	77	139	348
3.00 x 4.00	12.000	139	241	383	326	280	526	421	366	703	526	465	919	648	577	897	73	77	103	185	464
4.00 x 4.00	16.000	185	321	511	435	374	701	562	488	938	701	621	1225	864	769	1197	97	103	138	247	619

Table shows maximum wire fill based on 50% of duct internal cross sectional area. Formula = Nominal Area/1.85 x D². All dimensions represent typical outer cable diameter in inches.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

PANDUCT® Type G and FS Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) In.	Nominal Area In.²	Electrical															Communication				
		8 AWG	10 AWG	12 AWG			14 AWG			16 AWG			18 AWG			22 AWG	23 AWG		23/24 AWG	24 AWG	Fiber Cable
		.216	.164	.13	.141	.152	.111	.124	.133	.096	.111	.118	.084	.100	.106	.085	.298	.289	.250	.187	.118
		THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A		Cat. 6	Cat. 5e	3.0 mm
0.50 x 0.50	0.250	3	5	8	7	6	11	9	8	15	11	10	20	14	12	19	1	1	2	4	10
0.50 x 1.00	0.500	6	10	16	14	12	23	18	16	31	23	20	40	28	25	39	3	3	4	8	20
0.50 x 2.00	1.000	12	21	33	28	24	46	37	32	62	46	41	80	57	50	79	6	6	9	16	40
0.50 x 4.00	2.000	24	42	67	57	49	92	74	64	124	92	82	161	114	101	158	12	13	18	32	81
0.75 x 0.75	0.563	6	11	19	16	13	26	20	18	34	26	23	45	32	28	44	3	3	5	9	23
0.75 x 1.00	0.750	9	15	25	21	18	34	27	24	46	34	30	60	42	38	59	4	5	6	12	30
0.75 x 1.50	1.125	13	23	38	32	27	52	41	36	69	52	46	91	64	57	88	7	7	10	18	46
0.75 x 2.00	1.500	18	31	50	43	37	69	55	48	93	69	61	121	85	76	118	9	10	13	24	61
1.00 x 1.00	1.000	12	21	33	28	24	46	37	32	62	46	41	80	57	50	79	6	6	9	16	40
1.00 x 1.50	1.500	18	31	50	43	37	69	55	48	93	69	61	121	85	76	118	9	10	13	24	61
1.00 x 2.00	2.000	24	42	67	57	49	92	74	64	124	92	82	161	114	101	158	12	13	18	32	81
1.00 x 3.00	3.000	36	63	101	86	74	139	111	96	186	139	123	242	171	152	237	19	20	27	49	122
1.00 x 4.00	4.000	48	84	135	114	98	185	148	129	248	185	164	323	228	203	316	25	27	36	65	163
1.50 x 1.00	1.500	18	31	50	43	37	69	55	48	93	69	61	121	85	76	118	9	10	13	24	61
1.50 x 1.50	2.250	27	47	76	64	55	104	83	72	139	104	92	182	128	114	177	14	15	20	36	92
1.50 x 2.00	3.000	36	63	101	86	74	139	111	96	186	139	123	242	171	152	237	19	20	27	49	122
1.50 x 3.00	4.500	55	95	152	129	111	208	167	145	279	208	184	364	257	228	355	28	30	41	73	184
1.50 x 4.00	6.000	73	127	202	172	148	278	222	193	372	278	246	485	342	305	474	38	41	54	98	245
2.00 x 1.00	2.000	24	42	67	57	49	92	74	64	124	92	82	161	114	101	158	12	13	18	32	81
2.00 x 1.50	3.000	36	63	101	86	74	139	111	96	186	139	123	242	171	152	237	19	20	27	49	122
2.00 x 2.00	4.000	48	84	135	114	98	185	148	129	248	185	164	323	228	203	316	25	27	36	65	163
2.00 x 3.00	6.000	73	127	202	172	148	278	222	193	372	278	246	485	342	305	474	38	41	54	98	245
2.00 x 4.00	8.000	97	169	270	229	197	371	297	258	496	371	328	647	457	406	632	51	54	73	130	327
2.00 x 5.00	10.000	122	212	338	287	247	463	371	323	620	463	410	809	571	508	790	64	68	91	163	409
2.50 x 3.00	7.500	91	159	253	215	185	347	278	242	465	347	307	607	428	381	593	48	51	68	122	307
3.00 x 1.00	3.000	36	63	101	86	74	139	111	96	186	139	123	242	171	152	237	19	20	27	49	122
3.00 x 2.00	6.000	73	127	202	172	148	278	222	193	372	278	246	485	342	305	474	38	41	54	98	245
3.00 x 3.00	9.000	110	191	304	258	222	417	334	290	558	417	369	728	514	457	711	57	61	82	147	368
3.00 x 4.00	12.000	146	254	405	344	296	556	445	387	744	556	492	971	685	610	949	77	82	109	196	491
3.00 x 5.00	15.000	183	318	507	431	370	695	557	484	930	695	615	1214	857	762	1186	96	102	137	245	614
4.00 x 1.50	6.000	73	127	202	172	148	278	222	193	372	278	246	485	342	305	474	38	41	54	98	245
4.00 x 2.00	8.000	97	169	270	229	197	371	297	258	496	371	328	647	457	406	632	51	54	73	130	327
4.00 x 3.00	12.000	146	254	405	344	296	556	445	387	744	556	492	971	685	610	949	77	82	109	196	491
4.00 x 4.00	16.000	195	339	540	459	395	742	594	516	992	742	656	1295	914	813	1265	102	109	146	261	655
4.00 x 5.00	20.000	244	424	676	574	494	927	743	646	1240	927	820	1619	1142	1017	1581	128	136	182	326	819
6.00 x 4.00	24.000	293	509	811	689	593	1113	891	775	1488	1113	984	1943	1371	1220	1898	154	164	219	392	983

Table shows maximum wire fill based on 50% of duct internal cross sectional area. Formula = Nominal Area/1.75 x D². All dimensions represent typical outer cable diameter in inches.

PANDUCT® Type FL Wiring Duct – Wirefill Capacity

Nominal Duct Size (W x H) mm	Nominal Area mm²	Electrical															Communication				
		8 AWG	10 AWG	12 AWG			14 AWG			16 AWG			18 AWG			22 AWG	23 AWG		23/24 AWG	24 AWG	Fiber Cable
		5.5	4.2	3.3	3.6	3.9	2.8	3.1	3.4	2.4	2.8	3.0	2.1	2.5	2.7	2.2	7.4	7.6	6.4	4.8	3.0
		THHN	THHN	THHN	MTW	MTW	THHN	MTW	MTW	TFFN	MTW	MTW	TFFN	MTW	MTW	MTW	Cat. 6A		Cat. 6	Cat. 5e	3.0 mm
12 x 12	144	1	3	5	4	3	7	5	5	9	7	6	12	8	7	12	1	1	1	2	6
25 x 25	625	8	14	22	19	16	31	25	21	42	31	27	54	38	34	53	4	4	6	11	27
50 x 50	2500	33	57	91	77	67	125	100	87	168	125	111	219	155	137	214	18	17	24	44	111

Table shows maximum wire fill based on 50% of duct internal cross sectional area. Formula = Nominal Area/2.50 x D². All dimensions represent typical outer cable diameter in millimeters.

Wirefill Formula

General Formula

PANDUIT wiring duct wirefills are calculated using the following general formula:

$$50\%\ \text{Wirefill} = 50\%\ \text{of} \left(\frac{\text{Usable Duct Area}}{\text{Wire Area}} \right)$$

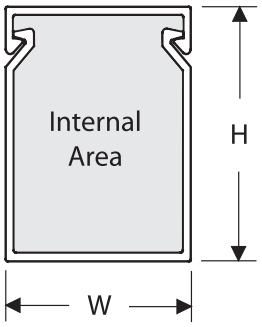
Why use a 50% Wirefill?

As specified in NFPA79-2007 section 13.5.2, *Percentage Fills of Raceways (Ducts),* a 50% wirefill is given as the maximum wirefill capacity in all *PANDUIT* wiring ducts. This helps ensure general safe wiring practices are followed. In actual practice, a 50% wirefill is the maximum amount of wiring the duct can hold given the additional airspace created between cables by non-uniform cable shapes, cable interlacing, and cable packing factors.

What is the Usable Duct Area?

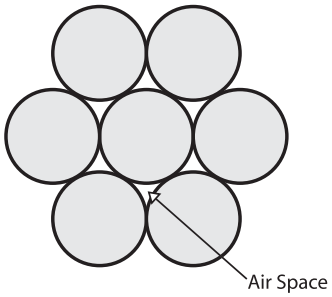
The usable area we define as the calculation of internal area that can be occupied by wires or cables.

Calculation of Internal Area



Since we use the outer channel dimensions in our calculation we make an adjustment in our formula for the thickness of material and for design elements that extend inside the channel.

Air Space Allotment



In our wirefill formula an adjustment is made to the channel internal area to account for "unusable" air space that will be present between cables when placed in the channel. Our formula assumes a uniform close packed or high density cable arrangement (see diagram)[1].

Considering these factors the usable duct area is equal to an average of 90% of the nominal area, or (W x H) x .90.

Wire Area

The wire area formula is converted to allow calculation using the cable diameter:

$$A_{WIRE} = \pi r^2$$
$$A_{WIRE} = (\pi/4) \times D^2$$
$$A_{WIRE} = .785 \times D^2$$

Formula Derivation

Inserting the elements from above into the general formula results in the following:

$$50\%\ \text{Wirefill} = .50 \left(\frac{(W \times H) \times .90}{.785 \times D^2} \right)$$

Simplifying this formula results in the formula used for wire fill calculation[2]:

$$50\%\ \text{Wirefill} = \left(\frac{W \times H}{1.75 \times D^2} \right)$$

Note: When calculating wirefill capacity using the above formula, variables W, H, and D must be expressed in same units (i.e. millimeters or inches).

[1] This calculation does not account for additional airspace created between cables by non-uniform cable shapes, cable interlacing, and cable packing factors.
[2] The resulting formula is used for all *PANDUIT* flush cover ducts, this excludes type HN, H, and HS wiring duct with a profile design that results in a divisor of 1.85 x D^2 (rather than 1.75 x D^2 as shown here).

Cable Ties and Accessories

PANDUIT offers a full line of cable ties and cable management accessories to bundle, route, and identify cable in a variety of applications. With the most complete selection of cable tie and accessory products, *PANDUIT* provides innovative solutions to meet various application environments, customer needs, and industry standards.









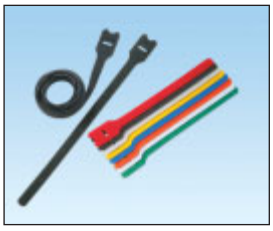
- *PANDUIT* cable ties are the safe choice for networking applications where performance integrity is critical; designs include a comprehensive line of hook and loop solutions, elastomeric cable ties, UL Listed solutions for plenum use, parallel-entry nylon ties designed to protect cable, and a variety of materials designed for extreme weatherability and strength
- *TAK-TY*® Hook & Loop Cable Ties are available in various styles and designed for applications requiring cable safety and frequent moves, adds, and changes; *TAK-TY*® Stacked Strip Cable Ties are available in convenient discrete length packaging to eliminate cutting ties to length
- Elastomeric Cable Ties are made of a network safe elastic material which has a flammability rating of UL 94V-0 to meet strict telecommunication specifications
- *PANDUIT* offers a comprehensive line of mounts, clips, and clamps that organize and route cables, speed and simplify installations, and lower overall installed cost; installation methods include adhesive backed, screws, and push barb
- *PANDUIT* mounts provide long term reliability while cable clips and clamps offer a one-piece solution to save time and reduce inventory
- *PANDUIT* stainless steel cable ties provide a strong, durable method of bundling, fastening, and identification, which can be used for indoor, outdoor, and underground (including direct burial) applications; designed for use in critical applications where strength, vibration, radiation, weathering, corrosion and temperature extremes are a factor (see catalog SA-ELCB10)

PANDUIT continues to solve customer problems and meet the needs of the evolving marketplace through the design of innovative cable tie and accessory products.

CE TAK-TY® Hook & Loop Cable Ties

- Soft, premium material is safe to use on high performance network cables protecting against over-tensioning
- Broad selection of durable designs and sizes to meet your application needs
- Adjustable, releasable, and re-usable hundreds of times – ideal for applications requiring frequent moves, adds, or changes
- Easy to use and operator safe with no sharp edges
- A full range of colors
- Operating temperature range: 0°F – 220°F (-18°C – 104°C)
- Complementary mounts available, see page P.33

Note: Minimum 2 inch overlap required to achieve loop tensile rating



HLT (Loop Ties)



HLS (Strip Ties)

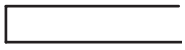


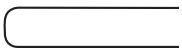
HLB (Stacked Strips)

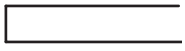


HLM/HLS (Rolls)









Part Number	Length In.	Length mm	Width In.	Width mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Std. Pkg. Qty.	Std. Ctn. Qty.
Loop Ties – Slot allows for pre-wrapping of bundles										
HLT2I-X0	8.0	203	.500	12.7	1.91	49	40	178	10	100
HLT3I-X0	12.0	305	.500	12.7	3.18	81	40	178	10	100
Strip Ties – Perforated in convenient 6", 12", and 18" strips										
HLS1.5S-X0	6.0	152	.750	19.1	1.50	38	50	222	10	100
HLS3S-X0	12.0	305	.750	19.1	3.20	81	50	222	10	100
HLS5S-X0	18.0	457	.750	19.1	5.00	127	50	222	10	100
Stacked Strip Ties – Eliminates cutting ties to length and staging them for each job; rounded edges for installer safety; convenient packaging (100 pieces) NEW!										
HLB2S-C0	7.0	178	.750	19.1	1.60	41	50	222	1	10

Part Number	Length Ft.	Length m	Width In.	Width mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensil Str. Lbs.	Min. Loop Tensil Str. N	Std. Pkg. Qty.	Std. Ctn. Qty.
15' and 75' Continuous Rolls – Can be cut to desired length, eliminating waste										
HLM-15R0	15.0	4.6	.330	8.4	Various	Various	18	80	1	10
HLS-15R0	15.0	4.6	.750	19.1	Various	Various	50	222	1	10
HLS-75R0	75.0	22.9	.750	19.1	Various	Various	50	222	1	10

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

HLTP/HLSP Hook & Loop Cable Ties – Plenum

- Soft, premium material is safe to use on high performance network cables protecting against over-tensioning
- UL Listed for use in plenum or air handling spaces (such as ceiling voids and underfloor areas) per NEC, Section 300-22 (C) and (D)
- Material flammability rating: UL 94V-2
- Adjustable, releasable, and re-usable multiple times – ideal for applications requiring frequent moves, adds, or changes
- Operating temperature range: 0°F – 122°F (-18°C – 50°C)

Note: Minimum 2 inch overlap required to achieve loop tensile rating





Part Number	Length In.	Length mm	Width In.	Width mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Std. Pkg. Qty.	Std. Ctn. Qty.
UL Listed Loop Ties (Maroon) – Slot allows for pre-wrapping of bundles										
HLTP2I-X12	8.0	203	.500	12.7	1.91	49	40	178	10	100
HLTP3I-X12	12.0	305	.500	12.7	3.18	81	40	178	10	100
UL Listed Loop Ties (Black) – Slot allows for pre-wrapping of bundles										
HLTP2I-X0	8.0	203	.500	12.7	1.91	49	18	80	10	100
HLTP3I-X0	12.0	305	.500	12.7	3.18	81	18	80	10	100
UL Listed Strip Ties (Maroon) – Perforated in convenient 6", 12", and 18" strips										
HLSP1.5S-X12	6.0	152	.750	19.1	1.50	38	50	222	10	100
HLSP3S-X12	12.0	305	.750	19.1	3.20	81	50	222	10	100
HLSP5S-X12	18.0	457	.750	19.1	5.00	127	50	222	10	100
UL Listed Strip Ties (Black) – Perforated in convenient 6", 12", and 18" strips										
HLSP1.5S-X0	6.0	152	.750	19.1	1.50	38	18	80	10	100
HLSP3S-X0	12.0	305	.750	19.1	3.20	81	18	80	10	100
HLSP5S-X0	18.0	457	.750	19.1	5.00	127	18	80	10	100

TAK-TAPE™ Hook & Loop Cable Tie Rolls

- Strong, low profile, flexible material is safe to use on high performance cabling protecting against over-tensioning
- Adjustable, releasable, and re-usable
- Cost-effective for general purpose bundling
- Continuous rolls can be easily cut to size – *PANDUIT* cutter included with TTS-35RX0
- Handy, re-usable plastic case with TTS-20R0, keeps material clean
- Leaves no residue
- Available in black color
- Operating temperature range: -22°F – 194°F (-30°C – 90°C)
- Complementary mounts available, see page P.33

Note: Minimum 2 inch overlap required to achieve loop tensile rating



NEW!

Part Number	Length Ft.	Length m	Width In.	Width mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Std. Pkg. Qty.	Std. Ctn. Qty.
TTS-20R0	20.0	6.1	.750	19.1	Various	Various	40	178	1	10
TTS-35R3-0	35.0	10.7	.750	19.1	Various	Various	40	178	1	8
TTS-35RX0	35.0	10.7	.750	19.1	Various	Various	40	178	1	10

Std. Pkg. Qty. for TTS-35R3-0 is 1 pkg. of three 35' rolls, TTS-35RX0 is 1 pkg. of ten 35' rolls.



CE *ULTRA-CINCH*™ Hook & Loop Cable Ties

- Unique material with hooks and loops on same side allows user to secure a greater range of bundle diameters, including smaller bundles
- Soft, premium material is safe to use on high performance cabling, protecting against over-tensioning
- Adjustable, releasable, and re-usable hundreds of times – ideal for applications requiring frequent moves, adds, or changes
- Low profile contoured cinch ring provides extra strength and bundle tightness while reducing overall bundle size
- Grommet (UGCTC and UGCTE styles) offers strength and assures reliable installations that resist pullout when bundling and mounting cables within cabinet applications
- Tapered tip facilitates easy, snag-free threading to speed installation
- Use flat head screws for grommet applications shown below
- A full range of colors
- Operating temperature range: 0°F – 140°F (-18°C – 60°C)

Note: Minimum 2 inch overlap required to achieve loop tensile rating



Part Number	Length In.	Length mm	Width In.	Width mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Std. Pkg. Qty.	Std. Ctn. Qty.
Cinch Ties										
UCT3S-X0	12.0	305	.850	21.6	3.00	76	50	222	10	100
UCT5S-X0	18.0	457	.850	21.6	5.00	127	50	222	10	100
Cinch Ties – Center Mount Grommet (Bundle is centered over mounting point)										
UGCTC3S-X0	12.0	305	.850	21.6	3.00	76	50	222	10	100
UGCTC5S-X0	18.0	457	.850	21.6	5.00	127	50	222	10	100
Cinch Ties – End Mount Grommet (Bundle is offset from mounting point)										
UGCTE3S-X0	12.0	305	.850	21.6	3.00	76	50	222	10	100
UGCTE5S-X0	18.7	475	.850	21.6	5.00	127	50	222	10	100

Note: 1/4" (6mm) diameter mounting hole on grommet style cinch ties.

Flat Head Screws for Grommet Cinch Ties

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty
UCTGS1224-X	12-24 UNC x 5/8mm (.625") flat head phillips screw.	10	100
UCTGSM5-X	M5 x 16mm flat head phillips screw.	10	100
UCTGSM6-X	M6 x 16mm flat head phillips screw.	10	100

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

CE *ULTIMATE ID*® Marker Ties

- Designed to efficiently support TIA/EIA-606-A standard labeling requirements
- Available in three styles:
  - Nylon 6.6 material
  - Hook and loop material – single tie
  - Hook and loop material – double tie
- Protective snap-on covers (UILC2CL-X) included for hook and loop parts
- Excellent solution for identifying and bundling UTP and fiber optic cable bundles

Note: Minimum 2 inch overlap required to achieve loop tensile rating



UICBM1M



UIHL12



UIHL22

Part Number	Length		Max. Bundle Dia.		Min. Loop Tensile Str.		Material	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	Lbs.	N			
UICBM1M-C	4.4	112	1.00	25	18	80	Nylon 6.6	100	1000
UIHL12-X0	5.6	142	1.00	25	15	67	Hook and loop	10	100
UIHL22-X0	5.6	142	1.00	25	15/tie	67		10	100

Cable Bundle Organizing Tool

NEW!

- Reduces cable installation time up to 50% compared to traditional methods
- Arranges 24 cables prior to applying *PANDUIT*® *TAK-TY*® Hook & Loop Cable Ties
- Optimizes bundle size and improves installed appearance
- Two inserts handle multiple network cable diameters
- Unique design allows twist-free bundling from the end or the middle of bundle
- Smooth edges; safe for use on network cables preventing cable abrasion
- Ergonomic fit and compact design
- Impact resistant material and low friction design to glide smoothly across cable bundle





Part Number	Description	Insert Color	Cable Diameter Range		Std. Pkg. Qty.	Std. Ctn. Qty.
			In.	mm		
CBOT24K	Kit contains jacket cover with hook and loop fastener and two inserts.	Fluorescent Green	0.180 – 0.248	4.57mm – 6.30mm	1	10
		Fluorescent Yellow	0.230 – 0.310	5.84mm – 7.87mm		

Part Number System for *TAK-TY*® Hook & Loop Cable Ties

HLT	2	I	—	X	0
Type	Size	Cross Section		Package Size	Color

Type
- HL = Hook and Loop
- HLB = Hook and Loop Stacked Strip
- HLM = HL Miniature
- HLT = HL Loop Tie
- HLTP = HL Loop Tie Plenum-Rated
- HLS = HL Strip Tie
- HLSP = HL Strip Tie Plenum-Rated
- TTS = *TAK-TAPE*™ Roll

Size
Approx. Maximum Bundle Dia. (In.)

Cross Section
- M = Miniature
- I = Intermediate
- S = Standard

Package Size
- X = 10
- C = 100
- 15R = 15' Roll
- 20R = 20' Roll
- 35R3 = 35' Rolls (3)
- 35RX = 35' Rolls (10)
- 75R = 75' Roll

Color
See chart below

Part Number System for *ULTRA-CINCH*™ Hook & Loop Cable Ties

UGCT	E	3	S	—	X	0
Type	Mount	Size	Cross Section		Package Size	Color

Type
- UCT = Cinch Tie
- UGCT = Grommet Cinch Tie

Mount
- E = End Mount
- C = Center Mount

Size
Approx. Maximum Bundle Dia. (In.)

Cross Section
- I = Intermediate
- S = Standard

Package Size
X = 10

Color
See chart below

Color Chart

Color	*PANDUIT* Suffix
Black	0
Red	2
Orange	3
Yellow	4
Green	5

Color	*PANDUIT* Suffix
Blue	6
Gray	8
White	10
Maroon	12

Part Number Availability List

Standard Packaging	
Part Number	**Color**
HLB2S-C	0,2,3,4,5,6,8,10
HLM-15R	0,2,3,4,5,6,8,10
HLS-15R	0,2,3,4,5,6,8,10
HLS-75R	0,2,3,4,5,6,8,10
HLS1.5S-X	0,2,3,4,5,6,8,10
HLS3S-X	0,2,3,4,5,6,8,10
HLS5S-X	0,2,3,4,5,6,8,10
HLSP1.5S-X	0,12
HLSP3S-X	0,12
HLSP5S-X	0,12
HLT2I-X	0,2,3,4,5,6,8,10
HLT3I-X	0,2,3,4,5,6,8,10
HLTP2I-X	0,12
HLTP3I-X	0,12
TTS-20R	0
TTS-35RX	0
TTS-35R3	0
UCT3S-X	0,2,3,4,5,6,8,10
UCT5S-X	0,2,3,4,5,6,8,10
UGCTC3S-X	0,2,3,4,5,6,8,10
UGCTC5S-X	0,2,3,4,5,6,8,10
UGCTE3S-X	0,2,3,4,5,6,8,10
UGCTE5S-X	0,2,3,4,5,6,8,10

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

CE Elastomeric Cable Ties

NEW!

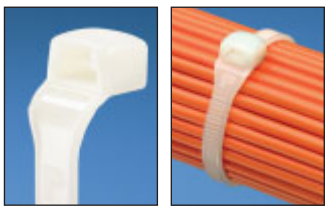




- Elastic material provides a flexible tie body that safely contours around cable bundle, preventing over-tensioning of data cables to maintain network integrity
- UL 94V-0 material provides greater flame resistance; meets stringent telecommunication flammability requirements (such as NEBS GR-63-CORE)
- Soft material has no sharp edges; protects the installer and the cable bundle
- High coefficient of friction grips and prevents lateral movement along cable bundle
- Releasable and re-usable to accommodate frequent moves, adds, and changes
- Halogen-free, non-toxic, and environmentally safe material will not release toxic or corrosive gases upon combustion
- Locking head design; the tapered tip threads into locking head to speed productivity; industry-accepted intuitive tie design

Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
ERT2M-C20	8.5	216	.500	12.70	.090	2.29	2.35	59.7	18	80	Hand install only	100	1000

CONTOUR-TY® Cable Ties – Nylon 6.6



- Unique design prevents wire and cable damage
- Low profile head avoids snags and reduces overall bundue size
- Outside teeth and smooth round edges protect cable jacket – ideal for high vibration applications
- Parallel-entry limits exposure to sharp edges and protects workers' arms/hands
- Fully enclosed head for consistent strength
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation

Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Bulk Pkg. Qty.	Bulk Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Miniature Cross Section													
CBR1M-M	4.1	104	.098	2.5	.038	1.0	1.00	25	18	80	GTS, GTSL, GS2B, PTS, PPTS, STS2	1000	50000
CBR1.5M-M	5.6	142	.098	2.5	.042	1.1	1.50	38	18	80		1000	50000
CBR2M-M	7.2	183	.098	2.5	.042	1.1	2.00	51	18	80		1000	25000
Intermediate Cross Section													
CBR1.5I-M	5.9	150	.140	3.6	.040	1.0	1.50	38	40	178	GTS, GTSL, GS2B, PTS, PPTS, STS2	1000	25000
CBR3I-M	10.4	264	.140	3.6	.052	1.3	3.00	76	40	178		1000	10000
CBR4I-M	13.6	345	.140	3.6	.052	1.3	3.6	102	40	178		1000	10000
Standard Cross Section													
CBR2S-M	7.6	193	.190	4.8	.044	1.1	2.00	51	50	222	GTS, GTSL, GS2B, GTH, GS4H, PTS, PTH, PPTS, STS2, STH2	1000	10000
CBR3S-M	10.8	274	.190	4.8	.052	1.3	3.00	76	50	222		1000	5000
CBR4S-M	14.0	356	.190	4.8	.052	1.3	4.00	102	50	222		1000	5000
Heavy-Standard Cross Section													
CBR2HS-D	8.0	203	.250	6.4	.058	1.4	2.00	51	85	378	GTH, GS4H, GS4EH, PTH, STH2, ST3EH	500	5000
Light-Heavy Cross Section													
CBR4LH-TL	14.6	371	.300	7.6	.070	1.8	7.6	102	120	534	GTH, GS4H, GS4EH, PTH, STH2, ST3EH	250	2500
CBR6LH-C	20.9	531	.300	7.6	.070	1.8	6.00	152	120	534		100	2000

Part Number System for Elastomeric Cable Ties

ERT	2	M	—	C	
Type	**Size**	**Cross Section**		**Package Size**	**Material/Color**
ERT = Elastomeric Releasable Tie	Approx. Maximum Bundle Dia. (In.)	M = Miniature		C = 100	See chart below

Part Number System for *CONTOUR-TY*® Cable Ties

CBR	2	S	—	M	
Type	**Size**	**Cross Section**		**Package Size**	**Material/Color**
CBR = Locking Tie	Approx. Maximum Bundle Dia. (In.)	M = Miniature I = Intermediate S = Standard HS = Heavy-Standard LH = Light-Heavy		C = 100 TL = 250 D = 500 M = 1000	See chart below

Material and Color Chart

Material	Color	*PANDUIT* Suffix
Nylon 6.6	Natural	✓
Weather Resistant Nylon 6.6	Black	0
Nylon 6.6	Brown	1
Nylon 6.6	Red	2
Nylon 6.6	Orange	3
Nylon 6.6	Yellow	4Y
Nylon 6.6	Green	5
Nylon 6.6	Blue	6

Material	Color	*PANDUIT* Suffix
Nylon 6.6	Purple	7
Nylon 6.6	Gray	8
Nylon 6.6	White	10
TPU	Black	20
Heat Stabilized Nylon 6.6	Black	30
Heat Stabilized Nylon 6.6	Natural	39
Flame Retardant Nylon 6.6	Natural (Ivory)	69

✓Denotes *PANDUIT* Natural Nylon 6.6 (no suffix required).

Part Number Availability List

Standard Packaging			Bulk Packaging		
Part Number	**Natural Nylon 6.6**	**Material/Color Suffix**	**Part Number**	**Natural Nylon 6.6**	**Material/Color Suffix**
			CBR1M-M	✓	0,30
			CBR1.5M-M	✓	0
			CBR2M-M	✓	0,1,2,3,4Y,5,6,7
			CBR1.5I-M	✓	0,30
			CBR3I-M	✓	0,1,2,3,4Y,5,6,7,8,10
			CBR4I-M	✓	0
			CBR2S-M	✓	0,30,39
			CBR3S-M	✓	0,30,69
			CBR4S-M	✓	0,30
			CBR2HS-D	✓	0
			CBR4LH-TL	✓	0,30
			CBR6LH-C	✓	0,30
			ERT2M-C		20

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

PAN-TY® Cable Ties – Nylon 6.6

- Versatile cable ties can be used in countless applications
- One-piece construction for consistent performance and reliability
- Lowest threading force of any one-piece cable tie in the industry
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation
- A variety of materials and colors available for specific applications





EH Series

Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section													
PLT1M-C	3.9	99	.098	2.5	.043	1.1	.87	22	18	80	GTS, GTSL, GS2B, PTS, PPTS, STS2	100	1000
PLT1.5M-C	5.6	142	.098	2.5	.043	1.1	2.5	32	18	80		100	1000
PLT2M-C	8.0	203	.098	203	.043	1.1	2.00	51	18	80		100	1000
Intermediate Cross Section													
PLT1.5I-C	5.6	142	.142	3.6	.045	1.1	1.38	35	40	178	GTS, GTSL, GS2B, PTS, PPTS, STS2	100	1000
PLT2I-C	8.0	203	.142	3.6	.045	1.1	2.00	51	40	178		100	1000
PLT2.5I-C	9.7	246	.145	3.7	.052	1.3	2.50	64	40	178		100	1000
PLT3I-C	11.4	290	.145	3.7	.052	1.3	3.00	76	40	178		100	1000
PLT4I-C	14.5	368	.145	3.7	.052	1.3	4.00	102	40	178		100	1000
Standard Cross Section													
PLT1S-C	4.8	122	.190	4.8	.052	1.3	1.00	25	50	222	GTS, GTSL, GS2B, GTH, GS4H, PTS, PPTS, PTH, STS2, STH2	100	1000
PLT1.5S-C	6.2	157	.190	4.8	.052	1.3	1.50	38	50	222		100	1000
PLT2S-C	7.4	188	.190	4.8	.052	1.3	1.88	48	50	222		100	1000
PLT2.5S-C	9.8	249	.190	4.8	.052	1.3	2.50	64	50	222		100	1000
PLT3S-C	11.5	292	.190	4.8	.052	1.3	3.00	76	50	222		100	1000
PLT4S-C	14.5	368	.190	4.8	.052	1.3	4.00	102	50	222		100	1000
PLT4.5S-C	15.5	394	.190	4.8	.052	1.3	4.50	114	50	222		100	1000
PLT5S-C	17.5	445	.190	4.8	.052	1.3	5.00	127	50	222		100	500
Light-Heavy Cross Section (Straight Tip)													
PLT2H-L	8.1	206	.300	7.6	.075	1.9	2.00	51	120	534	GTH, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
PLT2.5H-L	9.8	251	.300	7.6	.075	1.9	2.50	64	120	534		50	500
PLT3H-L	11.4	290	.300	7.6	.075	1.9	3.00	76	120	534		50	500
PLT4H-L	14.5	368	.300	7.6	.075	1.9	4.00	102	120	534		50	500
PLT6LH-L	21.9	556	.300	7.6	.075	1.9	6.00	152	120	534		50	500
PLT7LH-L	24.7	627	.300	7.6	.075	1.9	7.00	178	120	534		50	500
PLT8LH-L	27.6	701	.300	7.6	.075	1.9	8.00	203	120	534		50	500
PLT9LH-L*	30.5	775	.300	7.6	.075	1.9	9.00	229	120	534		50	500
PLT10LH-L*	34.3	871	.300	7.6	.075	1.9	10.31	262	120	534		50	1000
Heavy Cross Section (Straight Tip)													
PLT5H-L*	17.7	450	.350	450	.078	2.0	5.00	127	175	778	GTH, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
PLT6H-L*	20.9	530	.350	8.9	.078	2.0	6.00	152	175	778		50	500
PLT8H-L*	30.6	779	.350	8.9	.078	2.0	9.00	229	175	778		50	500
PLT13H-Q*	43.3	1100	.350	8.9	.078	2.0	13.00	330	175	778		25	500
Extra-Heavy Cross Section													
PLT5EH-Q	20.1	511	.500	12.7	.075	1.9	5.00	127	250	1112	GS4EH, ST3EH	25	250
PLT6EH-Q	22.2	564	.500	12.7	.075	1.9	6.00	152	250	1112		25	250

*UL Listed – meets the requirements of UL 181B-C, for use with UL non-metallic air ducts and air connectors.
Notes: 1) UL Listed for use in plenum or air handling spaces per NEC except PLT.6SM, PLT5H/6H/8H/13H, and PLT5EH/6EH.
2) UL Recognized except PLT5EH/6EH.

PAN-TY® Cable Ties – HALAR▲ – Distinctive Maroon Color





- UL Listed for use in plenum or air handling spaces per NEC, Section 300-22 (C) and (D)
- Low smoke density and excellent flammability rating of UL 94V-0
- Commonly accepted solution for bundling qualified cable without conduit in air handling space applications
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation

Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section													
PLT1M-C702Y	4.0	102	.098	2.5	.043	1.1	2.5	22	18	80	GTS, GTSL, GS2B, PTS, PPTS, STS2	100	1000
Standard Cross Section													
PLT2S-C702Y	7.4	188	.190	4.8	.055	1.4	1.88	48	50	222	GTS, GTSL, GS2B, GTH, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
PLT3S-C702Y	11.6	295	.190	4.8	.055	1.4	3.00	76	50	222		100	1000

▲HALAR is a registered trademark of Solvay Solexis, Inc.

PAN-TY® Clamp Ties – Nylon 6.6





- Used to secure a cable bundle to another surface such as a control panel, communication rack, wall or ceiling
- Design allows for bundling before or after screwing clamp in place
- One-piece construction for consistent performance and reliability
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation

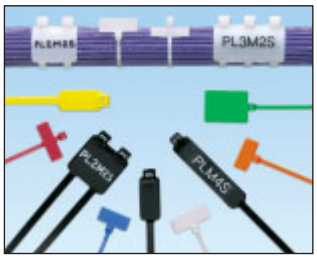
Part Number	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Nominal Hole Dia. In.	Nominal Hole Dia. mm	Screw Size	Screw Size Metric	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section																	
PLC1M-S4-C	4.3	109	.100	2.5	.045	1.1	.122	3.1	#4	M2.5	.75	19	18	80	GTS, GTSL, GS2B, PTS, PPTS, STS2	100	1000
Intermediate Cross Section																	
PLC1.5I-S8-C	6.1	155	.135	3.4	.045	1.1	.174	4.4	#8	M4	1.25	32	40	178	GTS, GTSL, GS2B, PTS, PPTS, STS2	100	1000
Standard Cross Section																	
PLC2S-S6-C	7.9	201	.190	4.8	.047	1.2	.148	3.8	#6	M3	1.84	47	50	222	GTS, GTSL, GS2B, GTH, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
PLC2S-S10-C	7.9	201	.190	4.8	.047	1.2	.200	5.1	#10	M5	1.84	47	50	222		100	1000
PLC3S-S10-C	12.0	305	.190	4.8	.052	1.3	.200	5.1	#10	M5	3.00	76	50	222		100	1000
PLC4S-S10-C	15.0	381	.190	4.8	.052	1.3	.200	5.1	#10	M5	4.00	102	50	222		100	1000
Light-Heavy Cross Section																	
PLC2H-S25-L	9.0	229	.300	7.6	.075	1.9	.260	6.6	1/4	M6	2.00	51	120	534	GTH, GS4H, GS4EH, PTH, STH2, ST3EH	50	500
PLC4H-S25-L	15.1	384	.300	7.6	.075	1.9	.260	6.6	1/4	M6	4.00	102	120	534		50	500

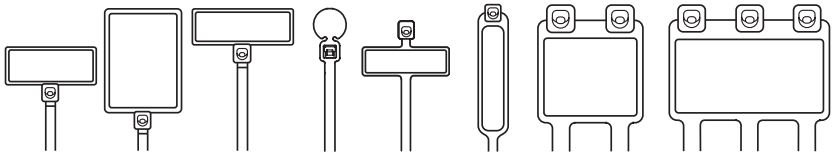
Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

PAN-TY® Marker and Flag Ties – Nylon 6.6

- Used to fasten and identify bundles at the same time
- One-piece construction for consistent performance and reliability
- Can be marked with *PANDUIT* marker pens or custom imprinted using *PANDUIT* Custom Hot Stamping Service (shown below)
- Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation





Part Number	Marker Type	Length In.	Length mm	Width In.	Width mm	Thickness In.	Thickness mm	Marker Write-On Area In.	Marker Write-On Area mm	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Min. Loop Tensile Str. Lbs.	Min. Loop Tensile Str. N	Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section																
PLF1M-C	Flag	4.3	109	.098	2.5	.045	1.1	.31 x .75	7.9 x 19.1	.87	22	18	80	GTS, GTSL, GS2B, PTS, PPTS, STS2	100	1000
PLF1MA-C	Flag	5.1	130	.098	2.5	.045	1.1	.76 x 1.04	19.1 x 26.4	.87	22	18	80		100	1000
PLF1MB-C	Flag	4.0	101	.098	2.5	.045	1.1	.31 x .92	7.9 x 23.4	.75	19	18	80		100	1000
PLF1MC-M	Flag	4.3	109	.098	2.5	.045	1.1	2.5	7.9 x 19.1	.87	22	18	80		100	1000
PLM1M-C	Wrap	3.9	99	.098	2.5	.035	.9	.26 x .95	6.6 x 24.1	.75	19	18	80		100	1000
PLM2M-C	Wrap	8.0	203	.098	2.5	.035	.9	.26 x .95	6.6 x 24.1	2.00	51	18	80		100	1000
Standard Cross Section																
PLM2S-C	Wrap	7.4	188	.185	4.7	.052	1.3	.44 x .87	11.1 x 22.1	1.75	45	50	222	GTS, GTSL, GS2B, GTH, GS4H, PTS, PTH, PPTS, STS2, STH2	100	1000
PLM4S-C	Wrap	14.6	371	.185	4.7	.052	1.3	.44 x 2.00	11.1 x 50.8	4.00	102	50	222		100	1000
PL2M2S-L	Wrap	7.4	188	.185	4.7	.052	1.3	.87 x 1.07	22.1 x 27.2	1.75	45	50	222		50	500
PL3M2S-L	Wrap	7.4	188	.185	4.7	.052	1.3	.87 x 1.79	22.1 x 45.5	1.75	45	50	222		50	500

Permanent Marking Pens

- Fast drying, permanent ink for identification on marker ties shown above



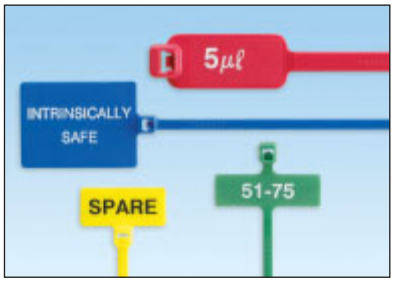
PX-0
PX-2



PFX-0
PFX-2

Part Number	Color	Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PX-0	Black	Permanent marking pen – regular tip.	12	144
PX-2	Red	Permanent marking pen – regular tip.	12	144
PFX-0	Black	Permanent marking pen – fine tip.	12	144
PFX-2	Red	Permanent marking pen – fine tip.	12	144

Custom Imprinting Service — Printed Cable Ties and Marker Plates — Fast! Two Week Lead Time



PANDUIT provides custom imprinting services on its cable bundling products such as cable ties, marker ties, marker plates, marker straps and recently hook and loop wrap ties for improved safety and security. These printed cable ties give a professional, high quality appearance for identification and labeling as well as promotional purposes. Options include company logos, website addresses, sequential numbering, phone numbers, graphics and text.

Minimum order: (pieces/part number and message)
- 5,000 for Miniature, Intermediate, Standard and Heavy-Standard cross section cable ties
- 3,000 for Light-Heavy, Heavy, and Extra-Heavy cross section cable ties
- 3,000 for Hook and Loop Wrap Cable Ties

For custom imprinting orders and inquiries, please call 1-888-506-5400, extension 1338.

Part Number System for *PAN-TY*® Cable Ties

PLT — **2** — **S** — — **C** —

Type
PLT = Locking Tie
PLC = Locking Clamp
PLF = Locking Marker, Flag
PLM = Locking Marker, Wrap

Size
Approx. Maximum Bundle Dia. (In.)

Cross Section
SM = Subminiature
M = Miniature
I = Intermediate
S = Standard
LH = Light-Heavy
H = Heavy
EH = Extra-Heavy

Screw Hole Size
(Clamp Ties Only)
-S4 = #4 (M2.5)
-S6 = #6 (M3)
-S8 = #8 (M4)
-S10 = #10 (M5)
-S25 = 1/4 (M6)

Package Size
Q = 25
L = 50
C = 100
TL = 250
D = 500
M = 1000

Material/Color
See chart below

Material and Color Chart

Material	Color	*PANDUIT* Suffix
Nylon 6.6	Natural	✓
Weather Resistant Nylon 6.6	Black	0
Weather Resistant Nylon 6.6 (meets Mil. Spec.)	Black	00
Nylon 6.6	Brown	1
Nylon 6.6	Red	2
Nylon 6.6	Orange	3
Nylon 6.6	Yellow	4Y
Nylon 6.6	Green	5
Nylon 6.6	Blue	6
Nylon 6.6	Purple	7
Nylon 6.6	Gray	8
Nylon 6.6	White	10
Nylon 6.6	Telephone Gray	14
Nylon 6.6	Black	20
Heat Stabilized Nylon 6.6	Black	30

Material	Color	*PANDUIT* Suffix
Heat Stabilized Nylon 6.6	Natural	39
Nylon 6.6	Fluorescent Orange	53
Nylon 6.6	Fluorescent Yellow	54
Nylon 6.6	Fluorescent Green	55
Nylon 6.6	Fluorescent Pink	59
Flame Retardant Nylon 6.6	Black	60
Flame Retardant Nylon 6.6	Natural (Ivory)	69
PEEK (Polyetheretherketone)	Translucent Brown	71
TEFZEL▪	Aqua Blue	76
Metal Detectable	Blue	86
Weather Resistant Polypropylene	Black	100
Polypropylene	Green	109
Nylon 12	Black	120
Heat Stabilized Weather Resistant Nylon 6.6	Black	300
HALAR▲	Maroon	702Y

✓Denotes *PANDUIT* Natural Nylon 6.6 (no suffix).
▪TEFZEL is a registered trademark of E.I. du Pont de Nemours and Company.
▲HALAR is a registered trademark of Solvay Solexis, Inc.

Part Number Availability List

Standard Packaging			Bulk Packaging		
Part Number	**Natural Nylon 6.6**	**Material/Color Suffix**	**Part Number**	**Natural Nylon 6.6**	**Material/Color Suffix**
PLC1M-S4-C	✓	0	**PLC1M-S4-M**	✓	0,30
PLC1.5I-S8-C	✓	0	**PLC1.5I-S8-M**	✓	0,30
PLC2S-S6-C	✓	0	**PLC2S-S6-M**	✓	0
PLC2S-S10-C	✓	0,14	**PLC2S-S10-M**	✓	0,20,30
PLC3S-S10-C	✓	0	**PLC3S-S10-M**	✓	0
PLC4S-S10-C	✓	0	**PLC4S-S10-M**	✓	0,30
PLC2H-S25-L	✓		**PLC2H-S25-TL**	✓	0,30
PLC4H-S25-L	✓	0	**PLC4H-S25-TL**	✓	0,30
PLF1M-C	✓	0	**PLF1M-M**	✓	0,2,3,4Y,6,10,69
PLF1MA-C	✓	3,4Y	**PLF1MA-M**	✓	0,2,3,4Y,5,6,10
PLF1MB-C	✓		**PLF1MB-M**	✓	
			PLF1MC-M		3
PLM1M-C	✓	0	**PLM1M-M**	✓	0,1,2,3,4Y,5,6,7,8,10,69
PLM2M-C	✓		**PLM2M-M**	✓	0,4Y,6
PLM2S-C	✓	0,4Y	**PLM2S-D**	✓	0,2,3,4Y,5,6,8
PLM4S-C	✓		**PLM4S-D**	✓	0,2,4Y,6

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

PAN-TY® Cable Ties (continued)

Standard Packaging			Bulk Packaging		
Part Number	Natural Nylon 6.6	Material/Color Suffix	Part Number	Natural Nylon 6.6	Material/Color Suffix
PL2M2S-L	✓	0	PL2M2S-D	✓	0,4Y,10
PL3M2S-L	✓		PL3M2S-D	✓	0,4Y
PLT.6SM-C	✓	0	PLT.6SM-M	✓	0,30
PLT.7M-C	✓		PLT.7M-M	✓	0,30
PLT1M-C	✓	0,00,1,2,3,4Y,5,6,7,8,10,14,30, 76,86,702Y	PLT1M-M	✓	0,00,1,2,3,4Y,5,6,7,8,10,14,20,30,53,54, 55, 59,60,69,76,100,109,300,702Y
			PLT1M-XMR	✓	0,1,2,3,4Y,5,6,7,8,10,30
PLT1.5M-C	✓	0	PLT1.5M-M	✓	0,00,1,2,3,4Y,5,6,7,8,10,14,20,30
			PLT1.5M-XMR	✓	0,00,30
PLT2M-C	✓	0	PLT2M-M	✓	0,1,2,3,4Y,5,6,7,8,10,20,30,69
PLT1.5I-C	✓	0,1,2,3,4Y,5,6,7,8,10,20,30	PLT1.5I-M	✓	0,00,1,2,3,4Y,5,6,7,8,10,20,30,69,100, 109,120,300
PLT2I-C	✓	0,14,30,76,86	PLT2I-M	✓	0,00,1,2,3,4Y,5,6,7,8,10,14,20,30,53,54, 55,59,69,76,300
PLT2.5I-C	✓	0	PLT2.5I-M	✓	0,20
PLT3I-C	✓	0,14	PLT3I-M	✓	0,2,3,4Y,5,6,8,10,14,20,30
PLT4I-C	✓	0,14	PLT4I-M	✓	0,2,5,6,14,20,30
PLT1S-C	✓	0	PLT1S-M	✓	0,30,38,300
PLT1.5S-C	✓	0	PLT1.5S-M	✓	0,30
PLT2S-C	✓	0,00,1,2,3,4Y,5,6,7,8,10,20,30, 71,76,86,702Y	PLT2S-M	✓	0,00,1,2,3,4Y,5,6,7,8,10,20,30,38,39,53, 54,55,59,60,69,71,76,100,109,120, 300,702Y
			PLT2S-VMR	✓	0,30
PLT2.5S-C	✓	0	PLT2.5S-M	✓	0,30
PLT3S-C	✓	0,00,2,20,30,76,86,702Y	PLT3S-M	✓	0,00,1,2,3,4Y,5,6,7,8,10,20,30,53,54,55, 59,76,100,109,702Y
PLT4S-C	✓	0,00,2,3,4Y,5,6,8,20,30,76,86	PLT4S-M	✓	0,00,1,2,3,4Y,5,6,7,8,10,14,20,30,69,76, 100,109,120,300
PLT4.5S-C	✓	0	PLT4.5S-M	✓	0
PLT5S-C	✓	0	PLT5S-M	✓	0,2,3,4Y,5,6,8,30
PLT6LH-L	✓	0	PLT6LH-C	✓	0
PLT7LH-L	✓	0	PLT7LH-C	✓	0,30
PLT8LH-L	✓	0	PLT8LH-C	✓	0,120
PLT8LH-Q		0			
PLT9LH-L	✓	0	PLT9LH-C	✓	0,30
PLT10LH-L	✓		PLT10LH-C	✓	
PLT2H-L	✓	0	PLT2H-TL	✓	0,2,4Y,6,30,100,109,300
PLT2.5H-L	✓	0	PLT2.5H-TL	✓	0
PLT3H-L	✓	0,76,86	PLT3H-TL	✓	0,30,76,100,109
PLT4H-L	✓	0,00,76,86	PLT4H-TL	✓	0,00,1,2,3,4Y,5,6,10,20,30,69,76,100,109, 120,300
PLT4H-C	✓	0			
PLT5H-L	✓	0	PLT5H-C	✓	0,30
PLT6H-L	✓	0	PLT6H-C	✓	0,30
PLT8H-L	✓	0	PLT8H-C	✓	0,00,30
PLT8H-L	✓	0			
PLT13H-Q	✓	0	PLT13H-C	✓	0,3
PLT2EH-Q		0	PLT2EH-C	✓	0
			PLT3EH-NB-C		0
PLT5EH-Q	✓	0	PLT5EH-C	✓	0
			PLT5EH-NB-C		0
PLT6EH-Q	✓	0	PLT6EH-C	✓	0
			PLT6EH-NB-C		0
PLT8EH-Q		0	PLT8EH-C	✓	0
PLT10EH-Q		0	PLT10EH-C	✓	0
PLT12EH-Q		0	PLT12EH-C	✓	0

NEW! CE

DURA-TY™ Cable Ties – Weather Resistant Acetal – Heavy Cross Section

- **Ideal for securing cables in outdoor messenger strand applications**
- **Black acetal strap and head material provide 20+ years outdoor life and high impact resistance**
- **Excellent ultraviolet light, chemical, and moisture resistance**
- **Double stainless steel locking barbs provide consistent and predictable holding values**
- **Convenient reel dispenser pack allows installer to cut-to-size for customized field applications; recyclable box has through-hole for attaching to belt, plus storage area for bag of heads; see formula box (below) to calculate amount of strapping required**
- Textured strap provides better gripping surface
- Robust head design allows tie to be tightened over a wide range of angles





Part Number	Description	Strap Length		Strap Width		Min. Loop Tensile Str.		Head Height		Head Width		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
		Ft.	m	In.	mm	Lbs.	N	In.	mm	In.	mm			
Strapping, Heads, and Kit – Allows user to customize strap length														
DTRH-LR0	50' reel of strapping.	50.0	15.2	.331	8.40	200	890	—	—	—	—	GTH, GS4EH, STH2, STHV, ST3EH	1	20
DTHH-Q0	25 cable tie heads.	—	—	—	—	—	—	.393	9.98	.557	.557	—	25	500
DTKH-0	Kit: strapping (50'), heads (25).	50.0	15.2	.331	8.40	200	890	.393	9.98	.557	.557	GTH, GS4EH, STH2, STHV, ST3EH	1	20

CE

DURA-TY™ Cable Ties – Weather Resistant Acetal – Extra-Heavy Cross Section

- Same features and benefits as shown in **Bolded** bullets (above) for Heavy cross section, plus:
- Meets Telcordia TR-TSY-000789
- Discrete lengths have lead-in style angled tips for quick and easy installation, even with gloved hands







Formula to determine amount of strapping required:
Diameter (inches) x 3.14 + 4.5 inches
Diameter (mm) x 3.14 + 114mm

Part Number	Description	Strap Length		Strap Width		Min. Loop Tensile Str.		Head Height		Head Width		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
		Ft.	m	In.	mm	Lbs.	N	In.	mm	In.	mm			
Strapping, Heads, and Kit – Allows user to customize strap length														
DTREH-LR0	50' reel of strapping.	50.0	15.2	.500	12.70	250	1112	—	—	—	—	GS4EH, ST3EH	1	20
DTHEH-Q0	25 cable tie heads.	—	—	—	—	—	—	.490	12.45	.718	18.24	—	25	500
DTKEH-0	Kit: strapping (50'), heads (25).	50.0	15.2	.500	12.70	250	1112	.490	12.45	.718	18.24	GS4EH, ST3EH	1	20

Part Number	Length		Width		Thickness		Head Height		Head Width		Max. Bundle Dia.		Min. Loop Tensile Str.		Recommended Installation Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N			
Discrete Lengths – Speed installation																	
DT4EH-L0	13.5	343	.500	12.70	.059	1.50	.490	12.45	.718	18.24	3.8	98	250	1112	GS4EH, ST3EH	50	100
DT8EH-Q0	27.0	686	.500	12.70	.059	1.50	.490	12.45	.718	18.24	8.0	203	250	1112		25	500
DT14EH-L0	48.0	1219	.500	12.70	.059	1.50	.490	12.45	.718	18.24	14.0	355	250	1112		50	250
DT15EH-L0	53.0	1346	.500	12.70	.059	1.50	.490	12.45	.718	18.24	15.0	381	250	1112		50	250
DT28EH-C0	96.0	2438	.500	12.70	.059	1.50	.490	12.45	.718	18.24	28.0	711	250	1112		100	—
DT44EH-C0	144.0	3658	.500	12.70	.059	1.50	.490	12.45	.718	18.24	44.0	1117	250	1112		100	—

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Stackable Aerial Cable Spacer – Weather Resistant Polypropylene





- Designed for use in parallel or perpendicular applications
- For use with *DURA-TY*™ Cable Ties shown on the previous page
- Each spacer snaps into another to increase spacer heights by 1/2 inch increments
- Greater resistance to damage caused by ultraviolet light – indoor or outdoor use

Part Number	Length		Width		Height		Used with Cable Ties*	Bulk Pkg. Qty.	Bulk Ctn. Qty.
	In.	mm	In.	mm	In.	mm			
SACS50-T100	2.08	52.8	1.16	29.5	.71	18.0	LH, H, EH	200	2000

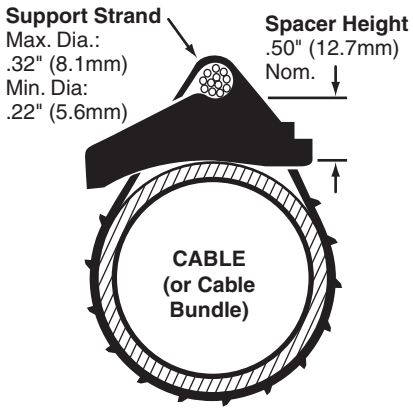
*Cable tie cross section sizes: LH = Light-Heavy, H = Heavy, and EH = Extra-Heavy.

Aerial Support Ties – Weather Resistant Polypropylene

- Designed to attach coax or telephone cable to the 1/4 inch (6.4mm) or 5/16 inch (7.9mm) support strand to form the expansion loop and keep equipment and cables clear of pole hardware
- One-piece construction with integral 1/2 inch (12.7mm) spacer reduces inventory costs of separate spacer and bands, and installs faster to lower the installed cost
- Releasable and re-usable
- Hand install only



Part Number	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N		
AST10-5-C100	5.6	142	.45	11.4	.06	1.4	1.00	25.4	75	334	100	1000
AST15-5-C100	6.9	175	.45	11.4	.06	1.4	1.50	38.1	75	334	100	1000
AST20-5-C100	8.4	214	.45	11.4	.06	1.4	2.00	50.8	75	334	100	1000
AST25-5-C100	10.0	254	.45	11.4	.07	1.8	2.50	63.5	75	334	100	1000



Assembled View

Part Number System for *DURA-TY*® Cable Ties and Aerial Support Ties

DT — **4** — **EH** — **C** — **0**

Type
DT = Locking Tie

Size
Approx. Maximum Bundle Dia. (In.)

Cross Section
H = Heavy
EH = Extra-Heavy

Package Size
Q = 25
L = 50
C = 100

Material/Color
See chart below

AST — **10** — **5** — **C** — **100**

Type
AST = Aerial Support Tile

Size
Approx. Maximum Bundle Dia. (In.)

Cross Section
Approx. Width (In.)

Package Size
C = 100

Material/Color
See chart below

Material and Color Chart

Material	Color	*PANDUIT* Suffix
Weather Resistant Polyprolene	Black	100
Weather Resistant Acetal	Black	*

*Denotes *DURA-TY*™ Weather Resistant Acetal material (no suffix).

Part Number Availability List

Standard Packaging			Bulk Packaging		
Part Number	**Natural Nylon 6.6**	**Material/Color Suffix**	**Part Number**	**Natural Nylon 6.6**	**Material/Color Suffix**
AST10-5-C		100			
AST15-5-C		100			
AST20-5-C		100			
AST25-5-C		100			
DTHEH-Q0		*			
DTHH-Q0		*			
DTKEH-0		*			
DTKH-0		*			
DTREH-LR0		*			
DTRH-LR0		*			
DT4EH-L0		*			
DT8EH-Q0		*			
DT14EH-L0		*	**DT14EH-C0**		*
DT15EH-L0		*			
DT28EH-C0		*			
DT44EH-C0		*			

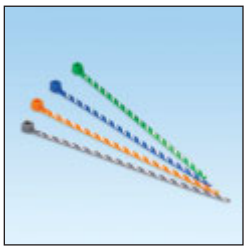
*Denotes *DURA-TY*™ Weather Resistant Acetal material (no suffix).

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

PAN-TY® Striped Cable Ties – Nylon 6.6

- Nylon material for indoor use
- Striped PAN-TY® Cable Ties in 25 color combinations match the universally accepted Even-Count Color Code
- Solid color ties are available for identification of "super groups" in cable containing more than 600 pairs
- Each 50 piece package fits in the PAN-POUCH™ Kit or pocket pouch shown on the next page





Part Number	Color	Length		Width		Thickness		Max. Bundle Dia.		Min. Loop Tensile Str.		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	Lbs.	N		
PLT1M-L6-10	Blue/White Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L3-10	Orange/White Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L5-10	Green/White Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L1-10	Brown/White Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L8-10	Slate/White Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L6-2	Blue/Red Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L3-2	Orange/Red Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L5-2	Green/Red Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L1-2	Brown/Red Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L8-2	Slate/Red Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L6-0	Blue/Black Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L3-0	Orange/Black Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L5-0	Green/Black Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L1-0	Brown/Black Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L8-0	Slate/Black Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L6-4	Blue/Yellow Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L3-4	Orange/Yellow Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L5-4	Green/Yellow Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L1-4	Brown/Yellow Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L8-4	Slate/Yellow Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L6-7	Blue/Violet Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L3-7	Orange/Violet Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L5-7	Green/Violet Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L1-7	Brown/Violet Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L8-7	Slate/Violet Stripe	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L0	Black	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L1	Brown	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L2	Red	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L3	Orange	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L4Y	Yellow	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L5	Green	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L6	Blue	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000
PLT1M-L8	Slate	4.0	102	.100	2.5	.036	.9	.82	21	18	80	50	1000

Note: CSA Certified on solid colors only.

Telephone Cable Identification Kits



PPC25X50F



PP5X50F

- *PAN-POUCH*™ Kit is made of 2-ply laminated black nylon/vinyl and folds for easy storage
- Easily hang pouch from cable by using hook and loop fasteners
- Pocket pouch holds five (50-piece) packages and is made of a white vinyl

Part Number	Description	Dimensions		Std. Pkg. Qty.
		Open	Closed	
PPC25X50F	Pouch filled with 1,250 cable ties (50 each of all 24 striped ties and 50 solid red ties).	10.5" x 38" (267mm x 965mm)	10.5" x 6" (267mm x 152mm)	1
PPC25X50	Empty pouch.	10.5" x 38" (267mm x 965mm)	10.5" x 6" (267mm x 152mm)	1
PP5X50F	Pocket pouch filled with 250 cable ties (50 of each color: blue, orange, green, brown and slate – all with white stripe).	—	3.5" x 5.25" (89mm x 133mm)	1

Cable Tie Tools – Tool Controlled Tension and Cut-Off





GTS



GTH

- A full line of ergonomic cable tie installation tools that lead the industry in reliability and performance
- Tool controlled tension provides flush cut-off and speeds installation to lower installed cost
- Lightweight and balanced
- Easy to change tension adjustment and easy to operate
- A combination of design, operation, and construction features, provides a long service life
- Replacement blades available
- No special maintenance required

Part Number	Used With Cable Ties	Weight		Part Features	Standards	Std. Pkg. Qty.
		oz.	g			
GTS	SM, M, I, S	9.8	278	Ergonomic design with impact resistant resin housing, narrow nose, and cushion handle.	QPL per Mil. Std. MS90387-1 and Mil. Spec. MIL-T-81306A	1
GTH	S, HS, LH, H	12.0	340	Ergonomic design with impact resistant resin housing, narrow nose, and cushion handle.	—	1

Cable Tie Cross Sections: SM = Subminiature, M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy.

Cable Tie Tools – Installer Controlled Tension and Cut-Off

- Economical series of tools for maintenance or construction applications
- Excellent tools for low volume applications



Part Number	Used With Cable Ties	Color	Weight		Part Features	Std. Pkg. Qty.
			oz.	g		
STS2	M, I, S	Black	2.5	71	Economical tool with short handle span and top loading feature for right or left handed users.	1
STH2	S, HS, LH, H	Red	2.5	71	Economical tool with short handle span and top loading feature for right or left handed users.	1
ST3EH	LH, H, EH	Blue/ Black	9.0	256	Durable, all steel construction with comfortable plastic handles.	1

Cable Tie Cross Sections: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, EH = Extra-Heavy.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

TAK-TY® Hook & Loop Cable Tie Mounts

- For use with TTS *TAK-TAPE*™ and HLT/HLS *TAK-TY*® Hook & Loop Cable Ties
- Unique cradle design provides maximum stability for cable bundle
- For indoor use only
- Dimensions: 1.10"L x 1.10"W x .34"H (27.9mm x 27.9mm x 8.6mm)



Part Number	Material	Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
ABMT-A-C*	Nylon 6.6	Natural	Rubber	100	1000
ABMT-A-C20*		Black		100	1000
ABMT-S6-C	Nylon 6.6	Natural	#6 (M3) Screw	100	1000
ABMT-S6-C20		Black		100	1000
ABMT-S6-C60**	Flame Retardant Nylon 6.6	Black		100	1000
ABMT-S6-C69**		Natural		100	1000

*Maximum static load for adhesive backed mounts is .38 lbs. (174g).
**Flame retardant products are manufactured from a material that is rated UL 94V-0.

4-Way Adhesive Backed Cable Tie Mounts

- Allow cable tie entry from all four sides
- Available in multiple sizes to match application load requirements
- Produced 2-up and with tear tabs for fast and easy liner removal to speed installation
- Rubber-based adhesive provides a strong and reliable bond
- For indoor use only



Part Number	Used With Cable Ties	Length		Width		Material	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm				
ABM1M-A-C	M	.50	12.7	.50	12.7	Nylon 6.6	White	100	500
ABMM-A-C	M, I	.75	19.1	.75	19.1	ABS	White	100	500
ABMM-A-C20	M, I	.75	19.1	.75	19.1		Black	100	500
ABM2S-A-C	M, I, S	1.00	25.4	1.00	25.4		White	100	500
ABM2S-A-C14	M, I, S	1.00	25.4	1.00	25.4		Gray	100	500
ABM2S-A-C15	M, I, S	1.00	25.4	1.00	25.4		Ivory	100	500
ABM2S-A-C20	M, I, S	1.00	25.4	1.00	25.4		Black	100	500
ABM100-A-C	M, I, S	1.00	25.4	1.00	25.4	Nylon 6.6	White	100	1000
ABM100-A-C15	M, I, S	1.00	25.4	1.00	25.4		Ivory	100	1000
ABM100-A-D20	M, I, S	1.00	25.4	1.00	25.4		Black	500	5000
ABM112-A-C	M, I, S	1.12	28.6	1.12	28.6		White	100	500
ABM112-A-D20	M, I, S	1.12	28.6	1.12	28.6		Black	500	5000
ABM3H-A-L	M, I, S, HS, LH, H, HLM	1.50	38.1	1.50	38.1		White	50	500
ABM3H-A-L20		1.50	38.1	1.50	38.1		Black	50	500
ABM4H-A-L		2.00	50.8	2.00	50.8		White	50	500

Cable Tie Cross Sections: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, HLM = Miniature *TAK-TY*® Hook & Loop Cable Ties.

Cable Tie Mounts



- Unique cradle design provides maximum stability for the cable bundle
- Low profile design keeps bundle close to mounting surface
- Material: Nylon 6.6

Part Number	Used With Cable Ties	Length		Width		Height		Color	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm				
TM1S4-C	M	.51	13.0	.32	8.0	.23	5.8	Natural	#4 (M2.5) screw	100	500
TM1S4-C0*	M	.51	13.0	.32	8.0	.23	5.8	Black		100	500
TM1S6-C	M	.51	13.0	.32	9.5	.23	5.8	Natural	#6 (M3) screw	100	500
TM1S6-C0*	M	.51	13.0	.32	9.5	.23	5.8	Black		100	500
TM2S6-C	M, I, S	.63	16.0	.43	10.8	.28	7.0	Natural		100	500
TM2S6-C0*	M, I, S	.63	16.0	.43	10.8	.28	7.0	Black		100	500
TM2S8-C	M, I, S	.63	16.0	.43	10.8	.28	7.0	Natural	#8 (M4) screw	100	500
TM2S8-C0*	M, I, S	.63	16.0	.43	10.8	.28	7.0	Black		100	500
TM3S8-C	M, I, S, LH	.86	21.9	.61	15.5	.37	9.4	Natural		100	500
TM3S8-C0*	M, I, S, LH	.86	21.9	.61	15.5	.37	9.4	Black		100	500
TM3S10-C	M, I, S, LH	.86	21.9	.61	15.5	.37	9.4	Natural	#10 (M5) screw	100	500
TM3S10-C0*	M, I, S, LH	.86	21.9	.61	15.5	.37	9.4	Black		100	500
TM3S2510-C30**	M, I, S, LH	.87	22.2	.62	15.7	.38	9.6	Black		100	500
TM3S2510-C39**	M, I, S, LH	.87	22.2	.62	15.7	.38	9.6	Natural		100	500
TM3S25-C	M, I, S, LH	.88	22.3	.63	16.0	.38	9.6	Natural	1/4 (M6) screw	100	500
TM3S25-C0*	M, I, S, LH	.88	22.3	.63	16.0	.38	9.6	Black		100	500

*Material: Weather Resistant Nylon 6.6
**Material: Heat Stabilized Nylon 6.6
Cable Tie Cross Sections: M = Miniature, I = Intermediate, S = Standard, LH = Light-Heavy.

Extra-Heavy Cable Tie Mounts

- Unique cradle design provides maximum stability for cable bundle
- Route and support large diameter and heavy cable bundles
- Dimensions are 1.62"L x .74"W x .61"H (41.4mm x 18.8mm x 15.5mm)*
- Weather resistant material for indoor/outdoor use

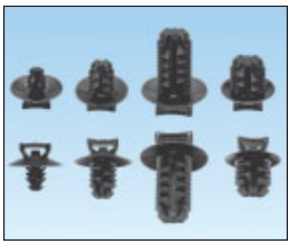


Part Number	Used With Cable Ties	Material	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TMEH-S8-Q0	I, S, H, EH	Weather Resistant Nylon 6.6	#8 (M4) Screw	25	250
TMEH-S10-Q0			#10 (M5) Screw	25	250
TMEH-S10-C100		Weather Resistant Polypropylene	#10 (M5) Screw	100	500
TMEH-S25-Q0		Weather Resistant Nylon 6.6	1/4 (M6) Screw	25	250

All product color is black.
*Dimensions for TMEH-S10-C100 are 1.65"L x .74"W x .61"H (41.9mm x 18.8mm x 15.5mm).
Cable Tie Cross Sections: I = Intermediate, S = Standard, H = Heavy, EH = Extra Heavy.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Push Mounts with Umbrella



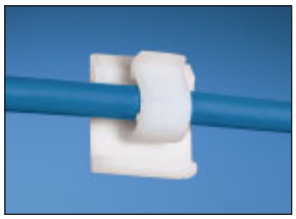
- Unique alternating barb design
- Lock securely into position
- Umbrella tensioning
- Exclusive contoured anvil head
- Material: Heat Stabilized Nylon 6.6

Part Number	Used With Cable Ties	Head Diameter		Panel to Top of Mount		Overall Height		Panel Hole Diameter Range		Panel Thickness Range		Std. Pkg. Qty.	Std. Ctn. Qty.
		In.	mm	In.	mm	In.	mm	In.	mm	In.	mm		
PUM-049-M30	M, I, S	.67	17.0	.26	6.6	.54	13.8	.18 – .19	4.6 – 4.9	.03 – .19	0.7 – 3.0	1000	5000
PUM-071-M30	M, I, S	.67	17.0	.26	6.6	.67	16.9	.25 – .28	6.3 – 7.1	.03 – .28	0.8 – 7.0	1000	5000
PUM-100-M30	M, I, S	.64	16.0	.26	6.6	.67	16.9	.35 – .40	9.0 – 10.0	.03 – .28	0.8 – 7.0	1000	5000
PUM-925-M30	M, I, S, LH	.77	20.0	.30	7.6	1.05	26.7	.34 – .36	8.8 – 9.3	.04 – .62	1.0 – 16.0	1000	5000

Cable Tie Cross Section: M = Miniature, I = Intermediate, S = Standard, LH = Light-Heavy.

Adhesive Backed Cord Clips

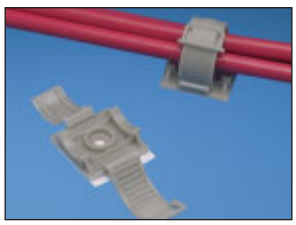
- Cables are easily snapped into or out of the clips
- Rubber-based adhesive provides a strong and reliable bond
- For indoor use only
- Material: Nylon 6.6



Part Number	Max. Bundle Diameter		Length		Width		Height		Color	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm	In.	mm			
ACC19-A-C	.19	4.8	.75	19.0	.62	15.9	.25	6.5	Natural	100	500
ACC19-A-C20	.19	4.8	.75	19.0	.62	15.9	.25	6.5	Black	100	500
ACC38-A-C	.38	9.6	1.00	25.4	1.00	25.4	.38	9.7	Natural	100	500
ACC38-A-C20	.38	9.6	1.00	25.4	1.00	25.4	.38	9.7	Black	100	500
ACC62-A-C	.62	15.7	1.24	31.4	1.12	28.5	.63	16.0	Natural	100	500
ACC62-A-C20	.62	15.7	1.24	31.4	1.12	28.5	.63	16.0	Black	100	500

CLINCHER™ Adjustable Releasable Clamp

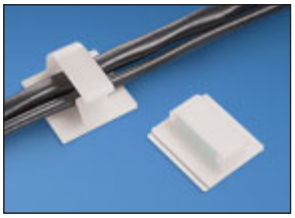
- Adjustable clamp designed to contain a range of cable bundle diameters
- Latch can be released to provide access to cable bundles
- Bundle range: .19" – .68" (4.8mm – 17.3mm) diameter
- Dimensions are 1.00"L x 1.00"W (25.4mm x 25.4mm)
- For indoor use only
- Material: Polypropylene



Part Number	Mounting Method	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
ARC.68-A-Q14	Rubber Adhesive	Gray	25	250
ARC.68-S6-Q14	#6 (M3) Screw	Gray	25	250
ARC.68-A-Q	Rubber Adhesive	White	25	250
ARC.68-S6-Q	#6 (M3) Screw	White	25	250

Bevel Entry Clips

- Beveled entry allows for easy insertion of cable bundle
- Rubber-based adhesive provides a strong and reliable bond
- For indoor use only
- Material: Nylon 6.6



Part Number	Max. Bundle Diameter		Length		Width		Color	Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm	In.	mm			
BEC38-A-L	.38	9.6	1.46	37.1	1.24	31.5	Natural	50	500
BEC38-A-L20	.38	9.6	1.46	37.1	1.24	31.5	Black	50	500
BEC62-A-L	.62	15.7	1.46	37.1	1.24	31.5	Natural	50	500
BEC62-A-L20	.62	15.7	1.46	37.1	1.24	31.5	Black	50	500
BEC75-A-L	.75	19.0	1.46	37.1	1.49	37.8	White	50	500
BEC75-A-L20	.75	19.0	1.46	37.1	1.49	37.8	Black	50	500

Wire Bundle Strap

- Securely routes large cable bundles
- Rounded edges prevent damage to cable jackets
- Mounting method: two 1/4" (M6) screws
- Dimensions are 4.70"L x 1.00"W x 2.54"H (119.4mm x 25.4mm x 64.5mm)
- For indoor use only



Part Number	Material	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
WBS6-Q	ABS	White	25	125
WBS6-Q60*	Flame Retardant Nylon 6.6	Black	25	125

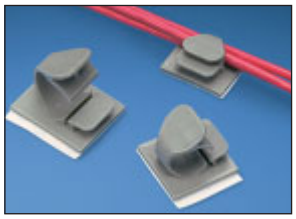
*Manufactured from a UL 94V-0 material.

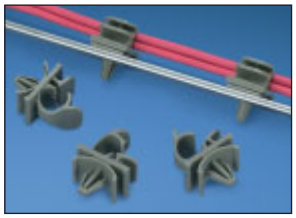
Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Latching Wire Clips

- Route and secure cords and cables
- Convenient releasable latch
- Available in six sizes with releasable latch
- Push barb parts are for use with a max panel thickness of .11" (2.7mm) and a hole diameter of .22" (5.6mm)
- For indoor use only
- Material: Nylon 6.6





Part Number	Max. Bundle Diameter In.	Max. Bundle Diameter mm	Length In.	Length mm	Width In.	Width mm	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
Adhesive Backed									
LWC19-A-C	.19	4.8	.85	21.6	.61	15.5	Natural	100	1000
LWC19-A-C14	.19	4.8	.85	21.6	.61	15.5	Gray	100	1000
LWC19-A-C20	.19	4.8	.85	21.6	.61	15.5	Black	100	1000
LWC25-A-C	.25	6.4	.88	22.4	1.00	25.4	Natural	100	1000
LWC25-A-C14	.25	6.4	.88	22.4	1.00	25.4	Gray	100	1000
LWC25-A-C20	.25	6.4	.88	22.4	1.00	25.4	Black	100	1000
LWC38-A-C	.38	9.5	1.00	25.4	1.00	25.4	Natural	100	1000
LWC38-A-C14	.38	9.5	1.00	25.4	1.00	25.4	Gray	100	1000
LWC38-A-C20	.38	9.5	1.00	25.4	1.00	25.4	Black	100	1000
LWC50-A-L	.50	12.7	1.26	32.0	1.00	25.4	Natural	50	500
LWC50-A-L14	.50	12.7	1.26	32.0	1.00	25.4	Gray	50	500
LWC50-A-L20	.50	12.7	1.26	32.0	1.00	25.4	Black	50	500
LWC75-A-L	.75	19.1	1.48	37.6	1.24	31.5	Natural	50	500
LWC75-A-L14	.75	19.1	1.48	37.6	1.24	31.5	Gray	50	500
LWC75-A-L20	.75	19.1	1.48	37.6	1.24	31.5	Black	50	500
LWC100-A-L	1.00	25.4	2.21	56.1	1.97	50.0	Natural	50	500
LWC100-A-L14	1.00	25.4	2.21	56.1	1.97	50.0	Gray	50	500
LWC100-A-L20	1.00	25.4	2.21	56.1	1.97	50.0	Black	50	500
Push Mount									
LWC19-H25-C	.19	4.8	.85	21.6	.51	12.8	Natural	100	1000
LWC19-H25-C14	.19	4.8	.85	21.6	.51	12.8	Gray	100	1000
LWC25-H25-C	.25	6.4	.86	21.8	.58	14.7	Natural	100	1000
LWC25-H25-C14	.25	6.4	.86	21.8	.58	14.7	Gray	100	1000
LWC25-H25-C20	.25	6.4	.86	21.8	.58	14.7	Black	100	1000
LWC38-H25-C	.38	9.5	.94	23.9	.58	14.7	Natural	100	1000
LWC38-H25-C14	.38	9.5	.94	23.9	.58	14.7	Gray	100	1000
LWC50-H25-L	.50	12.7	1.25	31.8	.76	19.3	Natural	50	500
LWC50-H25-L14	.50	12.7	1.25	31.8	.76	19.3	Gray	50	500
LWC50-H25-L20	.50	12.7	1.25	31.8	.76	19.3	Black	50	500
LWC75-H25-L	.75	19.1	1.45	36.8	.87	22.1	Natural	50	500
LWC75-H25-L14	.75	19.1	1.45	36.8	.87	22.1	Gray	50	500
LWC75-H25-L20	.75	19.1	1.45	36.8	.87	22.1	Black	50	500
LWC100-H25-L	1.00	25.4	1.89	47.9	.99	25.2	Natural	50	500
LWC100-H25-L14	1.00	25.4	1.89	47.9	.99	25.2	Gray	50	500
LWC100-H25-L20	1.00	25.4	1.89	47.9	.99	25.2	Black	50	500

Fixed Diameter Cable Clamps

- Durable Nylon 6.6 cable clamps



Part Number	Max. Bundle Dia. In.	Max. Bundle Dia. mm	Width In.	Width mm	Bundle Offset In.	Bundle Offset mm	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
CCS12-S8-C	.12	3.1	.37	9.4	.33	8.4	#8 (M4) Screw	100	500
CCS19-S8-C	.19	4.8	.37	9.4	.43	10.9	#8 (M4) Screw	100	500
CCS25-S8-C	.25	6.3	.37	9.4	.41	10.4	#8 (M4) Screw	100	500
CCS25-S10-C	.25	6.3	.37	9.4	.41	10.4	#10 (M5) Screw	100	500
CCS31-S8-C	.31	7.9	.37	9.4	.49	12.4	#8 (M4) Screw	100	500
CCS38-S8-C	.38	9.5	.37	9.4	.59	15.0	#8 (M4) Screw	100	500
CCS44-S8-C	.44	11.1	.37	9.4	.57	14.5	#8 (M4) Screw	100	500
CCS50-S8-C	.50	12.7	.37	9.4	.60	15.2	#8 (M4) Screw	100	500
CCH12-S10-C	.12	3.1	.50	12.7	.36	9.1	#10 (M5) Screw	100	500
CCH19-S10-C	.19	4.8	.50	12.7	.42	10.7	#10 (M5) Screw	100	500
CCH25-S10-C	.25	6.3	.50	12.7	.46	11.7	#10 (M5) Screw	100	500
CCH31-S10-C	.31	7.9	.50	12.7	.50	12.7	#10 (M5) Screw	100	500
CCH38-S10-C	.38	9.5	.50	12.7	.53	13.5	#10 (M5) Screw	100	500
CCH44-S10-C	.44	11.1	.50	12.7	.56	14.2	#10 (M5) Screw	100	500
CCH50-S10-C	.50	12.7	.50	12.7	.59	15.0	#10 (M5) Screw	100	500
CCH56-S10-C	.56	14.2	.50	12.7	.61	15.5	#10 (M5) Screw	100	500
CCH62-S10-C	.62	15.7	.50	12.7	.65	16.5	#10 (M5) Screw	100	500
CCH69-S10-C	.69	17.5	.50	12.7	.75	19.1	#10 (M5) Screw	100	500
CCH75-S10-C	.75	19.1	.50	12.7	.78	19.8	#10 (M5) Screw	100	500
CCH81-S10-C	.81	20.6	.50	12.7	.81	20.6	#10 (M5) Screw	100	500
CCH87-S10-C	.87	22.1	.50	12.7	.84	21.3	#10 (M5) Screw	100	500
CCH100-S10-C	1.00	25.4	.50	12.7	.91	23.1	#10 (M5) Screw	100	500
CCH112-S10-C	1.12	28.4	.50	12.7	.97	24.6	#10 (M5) Screw	100	500
CCH119-S10-C	1.19	30.2	.50	12.7	1.00	25.4	#10 (M5) Screw	100	500
CCH125-S10-C	1.25	31.8	.50	12.7	1.06	26.9	#10 (M5) Screw	100	500
CCH138-S10-C	1.37	34.8	.50	12.7	1.12	28.4	#10 (M5) Screw	100	500
CCH150-S10-C	1.50	38.1	.50	12.7	1.19	30.2	#10 (M5) Screw	100	500

All parts listed are also available in black weather resistant material (add suffix 0). Bulk package only.

Order number of pieces required, in multiples of Standard Package Quantity.

Prime items appear in **BOLD**.

Physical Properties and Colors of Cable Accessory Materials

Design Criteria	Nylon 6.6		Weather Resistant Nylon 6.6	Flame Retardant Nylon 6.6		Glass Filled Flame Retardant Nylon 6.6	Flame Retardant Polyethylene
Color	Natural	Black	Black	Natural	Black	Black	None
Part Number Suffix	None	20	0	69	60	None	None
UL Flammability – UL 94	V-2	V-2	V-2	V-0	V-0	V-0	V-0
Gamma Radiation Resistance	$1x10^5$ Rads	$1x10^5$ Rads	$1x10^5$ Rads	$1x10^5$ Rads	$1x10^5$ Rads	N/A	N/A
Water Absorption	1.2% (24 hrs)	1.2% (24 hrs)	1.2% (24 hrs)	1.1% (24 hrs)	1.1%(24 hrs)	0.7% (24 hrs)	0.2% (24 hrs)
UV Resistance	Poor	Fair	Good	Poor	Poor	Poor	Poor
Minimum Continuous Use Temperature	-76°F (-60°C)	-76°F (-60°C)	-76°F (-60°C)	-76°F (-60°C)	-40°F (-40°C)	-40°F (-40°C)	-40°F (-40°C)
Maximum Continuous Use Temperature	185°F (85°C)	185°F (85°C)	185°F (85°C)	212°F (100°C)	212°F (100°C)	230°F (110°C)	194°F (90°C)

Design Criteria	General Purpose Polypropylene	Weather Resistant Polypropylene	General Purpose ABS		Heat Stabilized Nylon 6.6	
Color	White	Black	White	Black	Natural	Black
Part Number Suffix	None	100	None	20	39	30
UL Flammability – UL 94	HB	HB	HB	HB	V-2	V-2
Gamma Radiation Resistance	$1x10^6$ Rads	$1x10^6$ Rads	N/A	N/A	$1x10^5$ Rads	$1x10^5$ Rads
Water Absorption (24 Hours)	.1% (24 hrs)	.1% (24 hrs)	.3% (24 hrs)	.3% (24 hrs)	1.2% (24 hrs)	1.2% (24 hrs)
UV Resistance	Poor	Good	Poor	Fair	Poor	Fair
Minimum Continuous Use Temperature	-76°F (-60°C)	-76°F (-60°C)	-40°F (-40°C)	-40°F (-40°C)	-76°F (-60°C)	-76°F (-60°C)
Maximum Continuous Use Temperature	239°F (115°C)	239°F (115°C)	185°F (85°C)	185°F (85°C)	239°F (115°C)	239°F (115°C)

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NOTES

Abrasion Protection

PANDUIT abrasion protection products provide an economical and easy way to insulate, protect, bundle and color-code components and cable. A wide variety of sizes and materials are available to meet a broad range of indoor and outdoor applications. To help assure optimum quality, *PANDUIT* abrasion protection products are designed and manufactured to meet applicable quality standards including International, UL, Military, ISO and Aerospace.



- ***Pan-Wrap***™ **Split Harness Wrap bundles and protects wire and cable**
- **Spiral wrap offering provides the largest variety of colors, materials, and sizes to meet a variety of needs**
- **Braided expandable sleeving provides continuous abrasion resistance and lightweight durable protection, with a flexible open weave that will not trap heat or humidity**
- **Heat shrink end caps are available in different sizes to meet a variety of needs**
- **Corrugated loom tubing is crush, impact, and abrasion resistant to reduce the risk of damage to wire and cable**
- **Grommet edging protects wire and cable from damage caused by sharp panel edges**

PANDUIT abrasion protection products provide quality at the lowest installed cost. With a continued focus on new product development, *PANDUIT* continues to meet customer needs.

PAN-WRAP™ Split Harness Wrap

- Patented slot pattern provides improved flexibility and abrasion protection in any application
- Unique wall design provides for easy cable breakouts
- Innovative design maintains uniform bundle protection in dynamic applications
- Large overlap accommodates a wide range of bundle diameters
- Packaged on a reel for easy handling and dispensing of product



Part Number	Material	Color	Length Per Reel		Max. Bundle Diameter		Min. Bundle Diameter‡		Nominal I.D.		Std. Pkg. Qty*
			Ft.	m	In.	mm	In.	mm	In.	mm	
PW50F-T	Polyethylene	Natural	200	61.1	.55	14.0	.47	11.9	.50	12.7	1
PW50F-T3	Polyethylene	Orange	200	61.1	.55	14.0	.47	11.9	.50	12.7	1
PW50F-T4	Polyethylene	Yellow	200	61.1	.55	14.0	.47	11.9	.50	12.7	1
PW50F-T20	Polyethylene	Black	200	61.1	.55	14.0	.47	11.9	.50	12.7	1
PW50FR-TY**	Flame Retardant Polyethylene	Natural	200	61.1	.55	14.0	.47	11.9	.50	12.7	1
PW50FR-T20Y**	Flame Retardant Polyethylene	Black	200	61.1	.55	14.0	.47	11.9	.50	12.7	1
PW75F-C	Polyethylene	Natural	100	30.5	.81	20.6	.72	18.3	.75	19.1	1
PW75F-C3	Polyethylene	Orange	100	30.5	.81	20.6	.72	18.3	.75	19.1	1
PW75F-C4	Polyethylene	Yellow	100	30.5	.81	20.6	.72	18.3	.75	19.1	1
PW75F-C20	Polyethylene	Black	100	30.5	.81	20.6	.72	18.3	.75	19.1	1
PW75FR-CY**	Flame Retardant Polyethylene	Natural	100	30.5	.81	20.6	.72	18.3	.75	19.1	1
PW75FR-C20Y**	Flame Retardant Polyethylene	Black	100	30.5	.81	20.6	.72	18.3	.75	19.1	1
PW100F-C	Polyethylene	Natural	100	30.5	1.13	28.6	.81	20.6	1.00	25.4	1
PW100F-C3	Polyethylene	Orange	100	3.05	1.13	28.6	.81	20.6	1.00	25.4	1
PW100F-C4	Polyethylene	Yellow	100	30.5	1.13	28.6	.81	20.6	1.00	25.4	1
PW100F-C20	Polyethylene	Black	100	30.5	1.13	28.6	.81	20.6	1.00	25.4	1
PW100FR-CY**	Flame Retardant Polyethylene	Natural	100	30.5	1.13	28.6	.81	20.6	1.00	25.4	1
PW100FR-C20Y**	Flame Retardant Polyethylene	Black	100	30.5	1.13	28.6	.81	20.6	1.00	25.4	1
PW150F-L	Polyethylene	Natural	50	15.2	1.63	41.3	1.13	28.6	1.50	38.1	1
PW150F-L3	Polyethylene	Orange	50	15.2	1.63	41.3	1.13	28.6	1.50	38.1	1
PW150F-L4	Polyethylene	Yellow	50	15.2	1.63	41.3	1.13	28.6	1.50	38.1	1
PW150F-L20	Polyethylene	Black	50	15.2	1.63	41.3	1.13	28.6	1.50	38.1	1
PW150FR-LY**	Flame Retardant Polyethylene	Natural	50	15.2	1.63	41.3	1.13	28.6	1.50	38.1	1
PW150FR-L20Y**	Flame Retardant Polyethylene	Black	50	15.2	1.63	41.3	1.13	28.6	1.50	38.1	1

*Order number of reels required.
‡Diameter can be further reduced with the use of cable ties.
**Flame retardant products are manufactured from a material that is rated UL 94V-0 and RoHS compliant.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

PAN-WRAP™ Installation Tools

- Patented installation tool with 180° opening allows easy loading of maximum bundle diameters to speed installation, providing the lowest installed cost



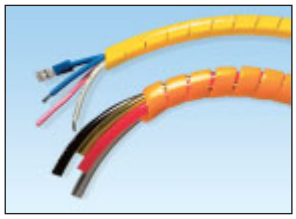


Part Number	Color	For Use With	Std. Pkg. Qty.*
PWT50	White	PW50F	1
PWT75	White	PW75F	1
PWT100	White	PW100F	1
PWT150	White	PW150F	1

*Order number of tools required.

Spiral Wrap

- Harness multiple cables into a single manageable bundle
- Allows breakouts of single/multiple cables
- Provides protection for cables
- Multiple colors allow easy identification of cable bundles
- Installation tool supplied in each package
- Bundle range: .38" – 4.00" (9.5mm – 101.6mm)
- Packaged on a reel for easy handling and dispensing of product



Part Number	Material	Color	Length of Reel‡		Std. Pkg. Qty.*
			Ft.	m	
T50F-C	Polyethylene	Natural	100	30.5	1
T50F-C0	Weather Resistant Polyethylene	Black	100	30.5	1
T50F-C1	Polyethylene	Brown	100	30.5	1
T50F-C2	Polyethylene	Red	100	30.5	1
T50F-C3Y	Polyethylene	Orange	100	30.5	1
T50F-C4Y	Polyethylene	Yellow	100	30.5	1
T50F-C5	Polyethylene	Green	100	30.5	1
T50F-C6	Polyethylene	Blue	100	30.5	1
T50F-C7	Polyethylene	Purple	100	30.5	1
T50F-C8	Polyethylene	Gray	100	30.5	1
T50F-C10	Polyethylene	White	100	30.5	1
T50F-C16	Polyethylene	Pink	100	30.5	1
T50FR-CY**	Flame Retardant Polyethylene	White	100	30.5	1
T50FR-C20Y**	Flame Retardant Polyethylene	Black	100	30.5	1

‡Reel packaging may contain splices.
*Order number of reels required.
**Flame retardant products are manufactured from a material that is rated UL 94V-0 and RoHS compliant.
Contact *PANDUIT* Customer Service for additional sizes and materials available.

Fray Resistant Braided Expandable Sleeving

- Fray-resistant design resists fraying when cut with scissors
- Provides continuous abrasion protection resistance for wires, cables, and tubing
- For indoor use only
- Material: Polyethylene Terephthalate



Part Number	Nominal I.D.		Bundle Diameter Range		Length of Reel‡		Std. Pkg. Qty.
	In.	mm	In.	mm	Ft.	m	
SE12PSC-TR0	.13	3.2	.13 – .25	3.2 – 6.4	200	61.0	1
SE25PSC-TR0	.25	6.4	.16 – .44	4.0 – 11.1	200	61.0	1
SE38PSC-TR0	.38	9.5	.19 – .63	4.8 – 15.9	200	61.0	1
SE50PSC-CR0	.50	12.7	.25 – .75	6.4 – 19.1	100	30.5	1
SE75PSC-CR0	.75	19.1	.63 – 1.0	15.9 – 25.4	100	30.5	1
SE125PSC-LR0	1.25	31.8	1.0 – 1.5	25.4 – 38.1	50	15.2	1
SE150PSC-LR0	1.50	38.1	1.3 – 2.0	31.8 – 50.8	50	15.2	1

‡Reel packaging may contain splices. Contact *PANDUIT* Customer Service for further information.
All product color is black.

Flame Retardant End Caps

- Applications include insulating and protecting wires, cables, and terminals
- Adhesive lined inner wall seals and provides excellent protection against moisture
- Voltage rating of 600 V
- Shrink ratio: 3:1
- Temperature range: -67°F – 230°F (-55°C – 110°C)
- Material: Adhesive lined black cross-linked Polyolefin



Part Number	Min. Expanded I.D.		Max. Recovered I.D.		Copper Conductor Size Range	Cap Length		Std. Pkg. Qty.	Std. Ctn. Qty.
	In.	mm	In.	mm		In.	mm		
HSECFR0.5-X	.51	13.0	.16	4.1	#8 – #6 AWG	3.00	76.2	10	100
HSECFR0.8-X	.75	19.0	.24	6.1	#6 – #2 AWG	3.50	88.9	10	100
HSECFR1.0-X	1.10	27.9	.35	8.9	#1 – #3/0 MCM	4.00	101.6	10	100
HSECFR1.5-5	1.50	38.1	.47	11.9	#2/0 – #350 MCM	4.50	114.3	5	50
HSECFR2.0-5	2.00	50.8	.63	16.0	#250 – #500 MCM	4.50	114.3	5	50

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

Corrugated Loom Tubing – Slit

- Provides protection for cables
- Packaged on a reel for easy handling and dispensing of product
- For indoor use only
- Material: Polyethylene

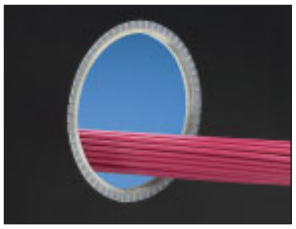


Part Number	Color	Inside Diameter		Outside Diameter		Length of Reel‡		Std. Pkg. Qty.*
		In.	mm	In.	mm	Ft.	m	
Slit Wall								
CLT25F-C3	Orange	.28	7.0	.40	10.1	100	30.5	1
CLT38F-C3	Orange	.42	10.5	.56	14.1	100	30.5	1
CLT50F-C3	Orange	.51	12.8	.67	17.0	100	30.5	1
CLT75F-C3	Orange	.76	19.3	.94	23.8	100	30.5	1
CLT100F-C3	Orange	.92	23.2	1.09	27.7	100	30.5	1
CLT125F-L3	Orange	1.29	32.8	1.50	38.1	50	15.2	1
CLT150F-X3	Orange	1.48	39.1	1.73	43.9	10	3.0	1
CLT188F-X3	Orange	1.88	47.8	2.17	55.1	10	3.0	1
CLT25F-C20	Black	.28	7.0	.40	10.1	100	30.5	1
CLT38F-C20	Black	.42	10.5	.56	14.1	100	30.5	1
CLT50F-C20	Black	.51	12.8	.67	17.0	100	30.5	1
CLT75F-C20	Black	.76	19.3	.94	23.8	100	30.5	1
CLT100F-C20	Black	.92	23.2	1.09	27.7	100	30.5	1
CLT125F-L20	Black	1.29	32.8	1.50	38.1	50	15.2	1
CLT150F-T20	Black	1.48	39.1	1.73	43.9	200	61.0	1
CLT150F-X20	Black	1.48	39.1	1.73	43.9	10	3.0	1
CLT188F-X20	Black	1.88	47.8	2.17	55.1	10	3.0	1
CLT150F-X4	Yellow	1.48	39.1	1.86	47.2	10	3.0	1
CLT188F-X4	Yellow	1.88	47.8	2.17	55.1	10	3.0	1
Solid Wall								
CLTS25F-C3	Orange	.28	7.0	.39	9.9	100	30.5	1
CLTS38F-C3	Orange	.42	10.5	.56	14.1	100	30.5	1
CLTS50F-C3	Orange	.51	12.8	.67	17.0	100	30.5	1
CLTS75F-C3	Orange	.76	19.3	.94	23.8	100	30.5	1
CLTS100F-C3	Orange	.92	23.2	1.09	27.7	100	30.5	1
CLTS125F-L3	Orange	1.29	32.8	1.50	38.1	50	15.2	1
CLTS150F-D3	Orange	1.48	39.1	1.73	43.9	500	152.4	1
CLTS25F-C	Black	.28	7.0	.40	10.1	100	30.5	1
CLTS38F-C	Black	.42	10.5	.56	14.1	100	30.5	1
CLTS50F-C	Black	.51	12.8	.67	17.0	100	30.5	1
CLTS75F-C	Black	.76	19.3	.94	23.8	100	30.5	1
CLTS100F-C	Black	.92	23.2	1.09	27.7	100	30.5	1
CLTS125F-L	Black	1.29	32.8	1.50	38.1	50	15.2	1

‡Reel packaging may contain splices.
*Order number of reels required.
Contact *PANDUIT* Customer Service for additional sizes, materials, colors and bulk packaging.

Adhesive Lined Grommet Edging – Slotted Wall

- Adhesive ensures product stays in place
- Slotted wall product used on irregularly shaped and round panel holes
- Solid wall product used on straight panels
- Highly flexible material
- General purpose material for use up to 122°F (50°C)
- Packaged on a 100' (30.5m) reel for easy handling and dispensing of product



Part Number	Width		Height		Material	Color	Panel Thickness Range		Std. Pkg.
	In.	mm	In.	mm			In.	mm	Qty.‡
Slotted Adhesive Lined									
GEE62F-A-C	.13	3.3	.16	4.1	Polyethylene	Natural	.036 – .062	0.9 – 1.6	1
GEE62F-A-C0	.13	3.3	.16	4.1	Weather Resistant Polyethylene	Black	.036 – .062	0.9 – 1.6	1
GEE99F-A-C	.17	4.3	.19	4.8	Polyethylene	Natural	.062 – .099	1.6 – 2.5	1
GEE99F-A-C0	.17	4.3	.19	4.8	Weather Resistant Polyethylene	Black	.062 – .099	1.6 – 2.5	1
GEE144F-A-C	.21	5.4	.22	5.6	Polyethylene	Natural	.099 – .144	2.5 – 3.7	1
GEE144F-A-C0	.21	5.4	.22	5.6	Weather Resistant Polyethylene	Black	.099 – .144	2.5 – 3.7	1
Solid Adhesive Lined									
GES62F-A-C	.13	3.3	.16	4.1	Polyethylene	Natural	.036 – .062	0.9 – 1.6	1
GES62F-A-C0	.13	3.3	.16	4.1	Weather Resistant Polyethylene	Black	.036 – .062	0.9 – 1.6	1
GES99F-A-C	.17	4.3	.19	4.8	Polyethylene	Natural	.062 – .099	1.6 – 2.5	1
GES99F-A-C0	.17	4.3	.19	4.8	Weather Resistant Polyethylene	Black	.062 – .099	1.6 – 2.5	1
GES144F-A-C	.21	5.4	.22	5.6	Polyethylene	Natural	.099 – .144	2.5 – 3.7	1
GES144F-A-C0	.21	5.4	.22	5.6	Weather Resistant Polyethylene	Black	.099 – .144	2.5 – 3.7	1
Slotted Adhesive Lined									
GEE36FR-CY*	.11	2.7	.12	3.0	Flame Retardant Polyethylene	Natural	.026 – .036	0.7 – 0.9	1
GEE62FR-CY*	.13	3.3	.16	4.1	Flame Retardant Polyethylene	Natural	.036 – .062	0.9 – 1.6	1
GEE99FR-CY*	.17	4.3	.19	4.8	Flame Retardant Polyethylene	Natural	.062 – .099	1.6 – 2.5	1
GEE144FR-CY*	.21	5.4	.22	5.6	Flame Retardant Polyethylene	Natural	.099 – .144	2.5 – 3.7	1
Solid Adhesive Lined									
GES36FR-CY*	.11	2.7	.12	3.0	Flame Retardant Polyethylene	Natural	.026 – .036	0.7 – 0.9	1
GES62FR-CY*	.13	3.3	.16	4.1	Flame Retardant Polyethylene	Natural	.036 – .062	0.9 – 1.6	1
GES99FR-CY*	.17	4.3	.19	4.8	Flame Retardant Polyethylene	Natural	.062 – .099	1.6 – 2.5	1
GES144FR-CY*	.21	5.4	.22	5.6	Flame Retardant Polyethylene	Natural	.099 – .144	2.5 – 3.7	1

*Flame retardant products are manufactured from a material that is rated UL 94V-0 and RoHS compliant.
‡Reel packaging may contain splices. Order the number of reels required.

Order number of pieces required, in multiples of Standard Package Quantity.
Prime items appear in **BOLD**.

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New product offerings appear in **BOLD**.

PANDUIT® *PAN-NET*® Performance Guarantee

All *PANDUIT*® *PAN-NET*® non-consumable products have a 20 year performance guarantee. When installed per TIA or ISO/IEC standards, the *PANDUIT*® *PAN-NET*® Network Cabling System will operate the application(s) which the system was designed to support.

Applications may include, but are not limited to:

10/100/1000 Mbps Ethernet (IEEE 802.3)
100 Base FX
100 Base 4
100 Base TX
4/16 Mbps Token Ring (IEEE 802.5)
155, 622, 1.25 Gbps ATM
SONET
FDDI/CDDI
10G Ethernet
FOIRL
TPDDI
32 Mbps Token Ring
IBM System 3x-AS/400
Appletalk
ISDN

20 Year Performance Guarantee

In order to qualify for the guarantee, the structured cabling system must be installed per the following:

1. Meet all TIA/EIA commercial building wiring standards.
2. *PANDUIT* categorized product must be used in conjunction with an equivalent or higher Category UL or ETL verified cable.
3. *PANDUIT* products must be installed per appropriate *PANDUIT* instruction sheets.

Note: *All networks shall be installed per applicable standards and manufacturer's guidelines.*

If any *PANDUIT*® *PAN-NET*® product fails to perform as stated above, *PANDUIT* will provide new components at no charge.

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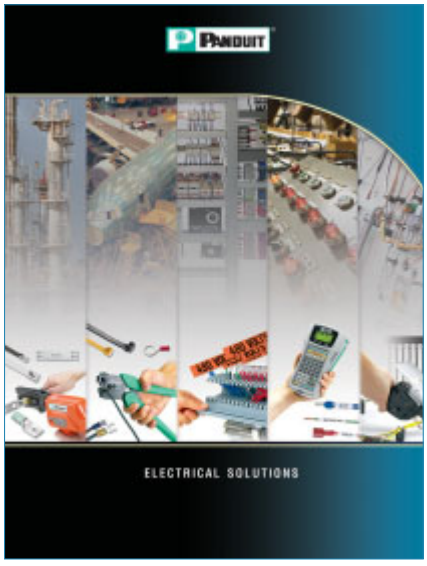
PANDUIT is committed to maintaining a leadership position in the Network Connectivity Market. As new technologies evolve, PANDUIT will continue to develop state-of-the-art components which will be added to the PAN-NET® product line.

PANDUIT **is a global leader in cabling and communication products, delivering end-to-end solutions in support of demanding electrical and networking requirements.**

PANDUIT Catalogs

Electrical Solutions

SA-ELCB03



- Cable Ties
- Cable Accessories
- Stainless Steel
- Wiring Duct
- Surface Raceway
- Abrasion Protection
- Cable Management
- Terminals
- Power and Grounding Connectors
- Labeling System
- Labels
- Pre-Printed and Write-On Markers
- Lockout/Tagout and Safety Solutions

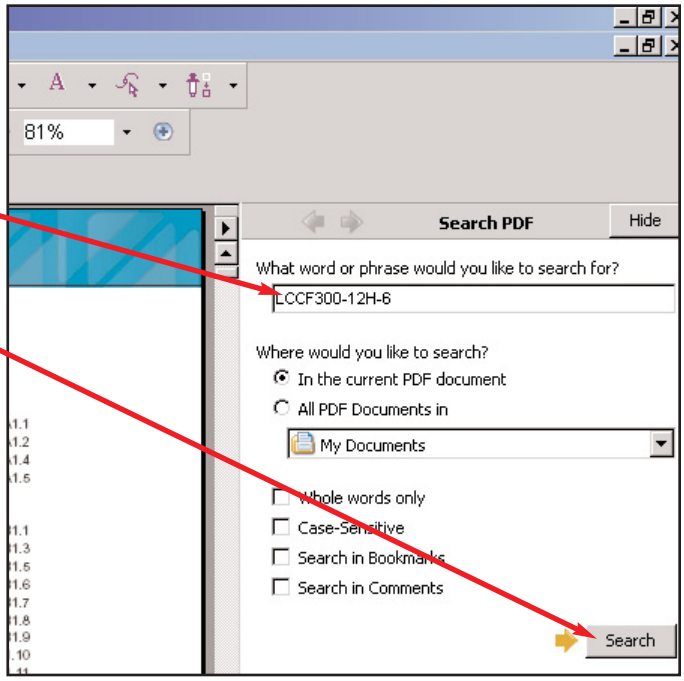
Searching by Part Numbers in this Catalog PDF

1. To search for a Part Number in this Catalog PDF, either press the Control key and the letter F (Ctrl-F) at the same time OR from the menu bar, select Edit, and then select Find/Change.

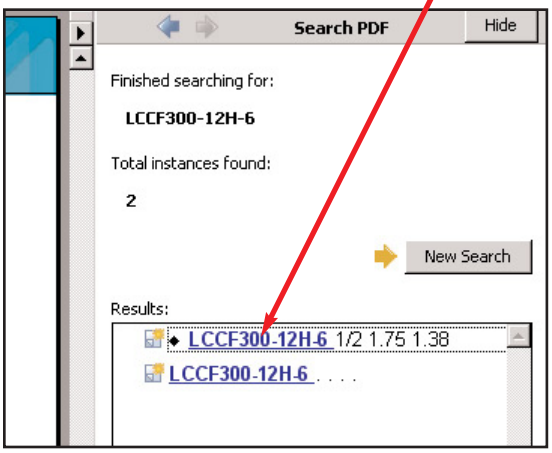
2. The screen will spit into two parts. In the first window on the right side, type in the part number you wish to find. For example, if you wish to find LCCF300-12H-6, type as shown. There is no need to be case sensitive in your typing.

3. When you are done typing, press the "Search" button.

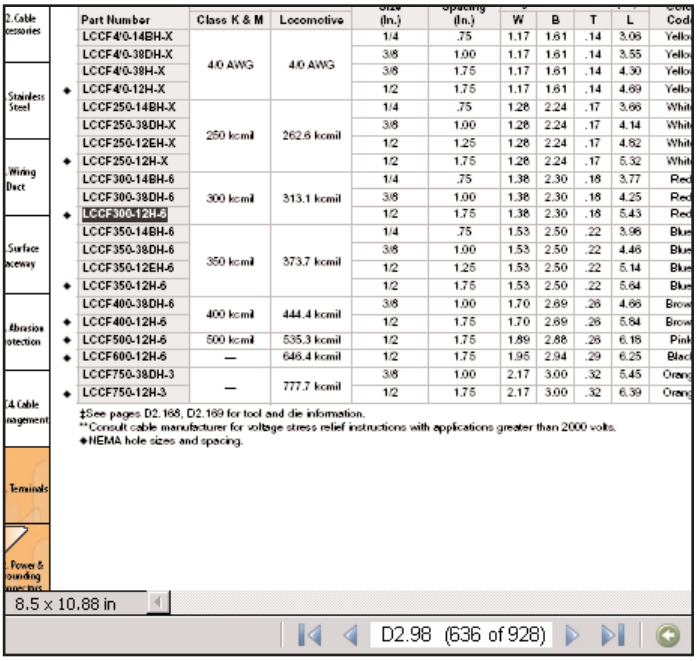
If you want to be less precise in your search, and find all instances of similar part numbers, you could type in just part of the number. For example, if you want to find all the LCCF300 numbers, just type in LCCF300.



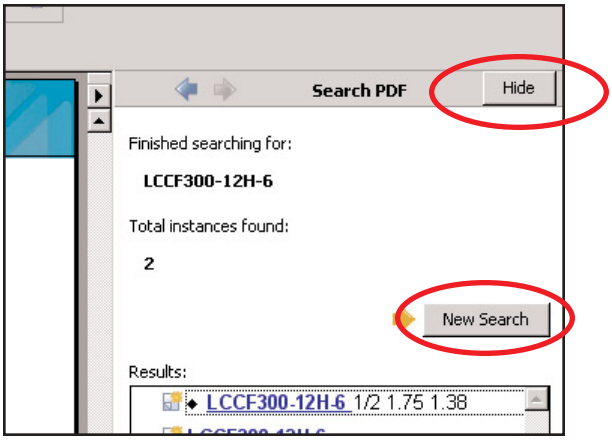
4. The right side of the screen, under "Results", will now display all occurrences of the part number. Select any of the choices to be taken to that page.



5. The left side of your screen will now show the page with the part number, and the part number will be highlighted (see below).



6. To return to a full screen view, select the "Hide" button. To keep the "Search PDF" screen and search for more part numbers, select the "New Search" button (see below).



Note: An alternative is to look in the Part Number Index at the back of this PDF and find the part number manually, then manually scroll to the page indicated.

Click Here to Return to the Table of Contents

USER TIPS / HELP

- Acrobat Alert:"This file may contain newer..."
- Links not working, pop-up blocker
- Windows XP links not working, security alerts
- View with Browser or Reader Application
- Bookmarks: quick, easy table of contents
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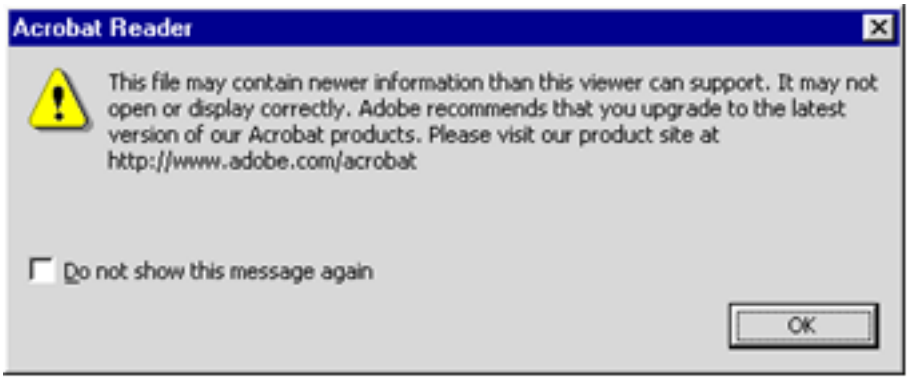
PROGRAM LINKS

Obtain programs that may be necessary to use content on this disc.

CONTACT US

Acrobat Alert "...may contain newer information than this viewer can support..."

When opening PDF documents on this disc, you may see this alert.



Check the ***Do not show***... box and click OK. PDF files on this disc are formatted to be completely functional with Acrobat Reader version 5 or higher. As long as the PDF file opens, all required features will be available.

If you wish to upgrade to a newer version of Acrobat (now Adobe) Reader, click the Program Links button to the left.

TOP

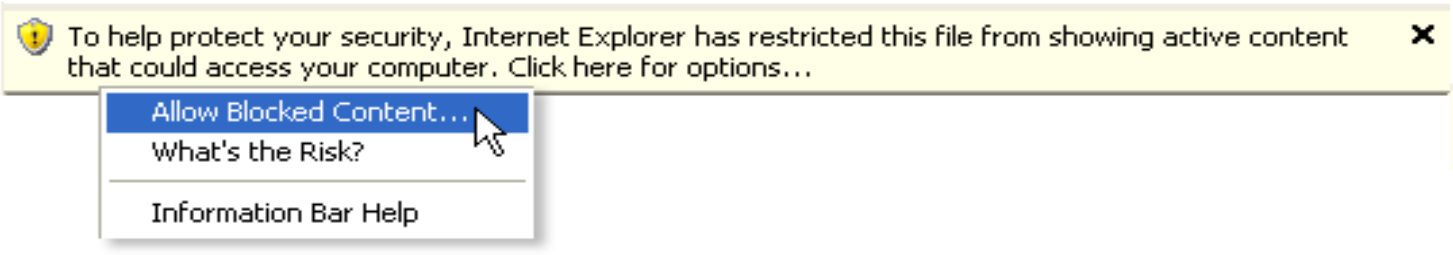
LInks not working (Pop-Up Blockers)

Some links will open a new browser window. If you have a pop-up blocker installed in your browser, it may see new linked windows as pop-ups. Setting the blocker to allow pop-ups from this site (CD) should resolve this problem.

TOP

Links not working / security alerts (Windows XP)

If you have installed Service Pack 2 (SP2) for Windows XP (Home or Professional) you are aware of the very high level of security enforced by the system. It is particularly aggressive in protecting you against "active links". Virtually every file on this CD has active links that allow you to move between pages and open other documents. As a result, some documents may seem to have links that don't work or pages that open blank. If this happens, look at the top of the web page for this alert:



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Obtain programs that may be necessary to use content on this disc.

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Adobe Reader Application or Browser Options

When you install Acrobat Reader, it installs both an Application (stand-alone program and a plug-in for your brower program(s). By default it will be configured to open PDF files in your Internet browser. You may setup Acrobat to open documents in either your browser window or to open them in the standard Reader application window.

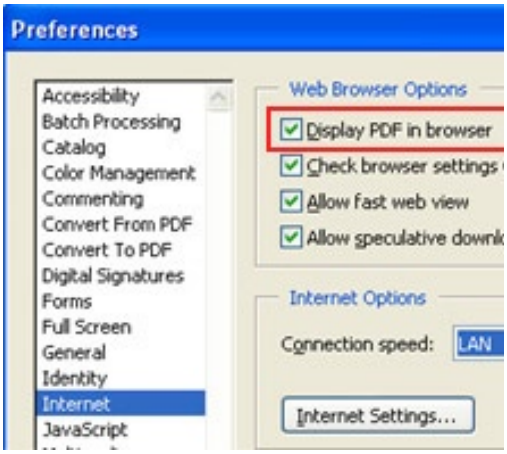
What's the Difference?

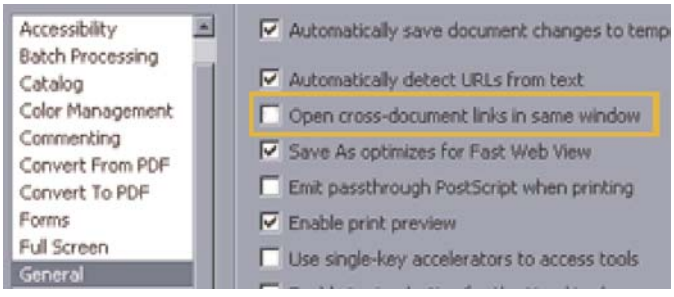
INTERNET BROWSER WINDOW	APPLICATION WINDOW
Can have only one PDF Document open at a time	Can have multiple documents open simultaneously
Search may be limited by support provided at the site of the PDF file	Support for full Search of the site/CD contents
Potential security alert in Windows XP (SP2) everytime you link to an new document	No Security alerts

This option can be easily changed in the Reader application. To open the application window, look for the Adobe icon on your Start menu or Desktop. This option can only be edited within the application. These instructions apply to version 5 through 7.

- Select Edit/Preferences
- From the list in the left pane select Internet
- Check "Display PDF in Browser" to have PDF file open in your Browser; uncheck it to have PDF files open in the Reader application.

TOP





The Reader application offers you the option of having links between documents open to replace the original window or open as a new window. While in the Preferences area of Reader, select the General option in the left pane.

Default (checked) is to have links open in the same window. Uncheck "Open cross-document links in same window" if you prefer to have links open in a new window.

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Bookmarks - Hyper Table of Contents

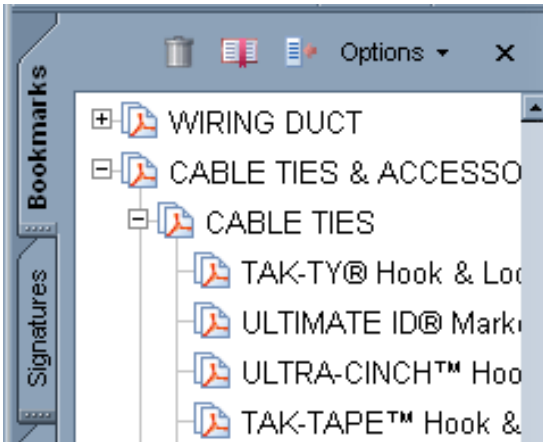
In very large PDF files, Acrobat bookmarks become a much faster and more convenient than searching through massive Table of Content listings.

Bookmarks can be toggled on or off by selecting the appropriate tab on the left side of the page.

Bookmarks contain nested listings so you can locate major catatories, then drill down to specific products types.

Click the "+" or "-" in front of the listing to expand or collapse a category.

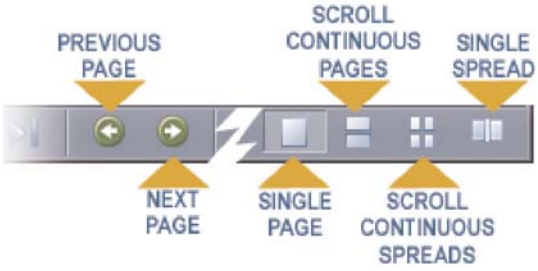
Click on a bookmark link at any level to jump to that specific location.



TOP

Navigation / Page View Options

Acrobat enhances your experience in PDF catalogs with two sets of navigation buttons. The arrow buttons work just like the Next and Previous buttons in a web browser.



Page view buttons allow you to choose to view one page at a time or scroll so you can see portions of the bottom of one page and the top of the next.

Some pages, like Roadmaps in *PANDUIT* catalogs, are best viewed as spreads (side-by-side pages). You can choose this option with the page view buttons.

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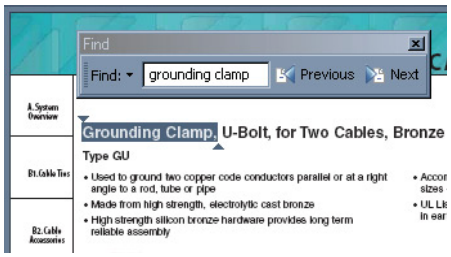
CONTACT US

Using Acrobat Find or Search

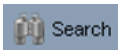
In Acrobat, Find and Search are distinct functions.

- Find scans the currently selected document for matches to your criteria
- Search can be configured to include one or multiple documents on a disc computer or server, then return results that appear in any of those documents.

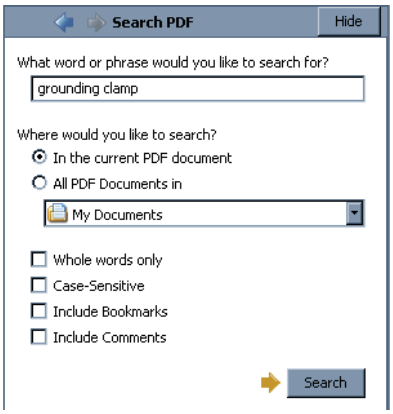
Acrobat Version 6 or 7



Find is accessed with the Ctrl+F key combo (Edit>Find). Type in the search criteria and click Next. If there are matches to your criteria, a page will appear with the results highlighted. Continuing to click Next or Previous changes pages and highlight locations.

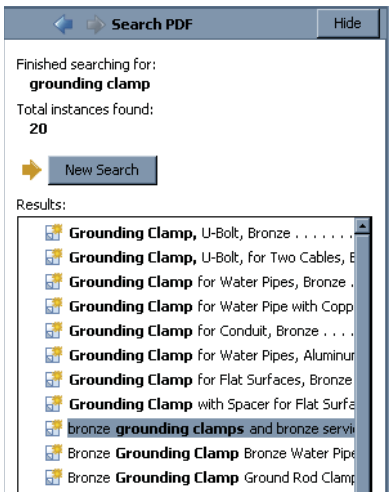
Open **Search** by clicking the binocular button 

(Ctrl+Shift+F). The Search dialog offers the option of selecting locations to be included (1).



Enter your search criteria, click the search button.

TOP



Results will appear as a list. Each item is an active link to that location in the document where it was found. Click a link to jump to that location.

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Obtain programs that may be necessary to use content on this disc.

CONTACT US

Optional Installation Programs & Links

PDF files on this optimized for use with Acrobat 5 or higher.

Installing Acrobat / Adobe Reader

If you don't already have Acrobat Reader, it is always recommended that you download the most current version from the Adobe website. Click the logo under Third Party Links (below) to go the the download page. The name of the program was changed from Acrobat Reader to Adobe Reader starting with Version 6.x. The version on this CD is 7.0.5 (U.S. English, Windows only) and is made available for those who do not have ready access to the internet. To install from this disc, browse the CD folders and open Programs.

Installation Cautions

Adobe strongly recommends that only one version of Reader be installed on any computer. Please uninstall previous versions before you install. Uninstalling a previous version after installing a newer one can also delete files required by the newer one.

Free Third Party Links (if needed)

PANDUIT Web sites, CDs and DVDs may contain multimedia programs that require your computer to have one or more of the following programs or plugins installed. Selecting a file or link requiring one of these programs will alert you of the program required. All these programs are free by way of the Internet links below. If you frequent the Internet, you probably already have some or all of these programs installed.

TOP

Get Adobe Reader

Get macromedia FLASH PLAYER

Get macromedia SHOCKWAVE PLAYER

Get Microsoft VISIO VIEWER

Adobe Download SVG Viewer

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