



PANDUIT™ PAN-NET™ NETWORK SOLUTIONS



PANDUIT™ is a Global Leader in Innovative Cabling and Networking Solutions.

End-to-End Network Connectivity Solutions from the Work Area to the Telecommunications Room



**QUICKNET™ Pre-Terminated
MTP* Cassettes**



**TX6™ 10Gig™
Jack Modules**



**MINI-COM™ ULTIMATE ID™
Faceplates**



**DPoE™
Power Patch Panel**



**MINI-COM™ Angled
Modular Patch Panels**

For more information visit: www.panduit.com/emea

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SYSTEM OVERVIEW



- World-class quality
- High performance and reliability
- Upgradable, modular design
- Support of emerging network requirements
- Reduction in total cost of ownership
- Designed to meet and exceed the latest TIA/EIA standards

PANDUIT™ solutions include; modular twisted pair and fibre optic connectors, zone cabling systems, outlets, network rack systems, physical layer management systems, raceway systems, fibre routing systems, network grounding systems, network cable ties and accessories and network identification systems.

GLOBAL SERVICES AND SUPPORT



PACT PROGRAMME

The *PACT* Programme brings together a community of best in class partners who share a vision – to provide optimum business-focused network solutions based on a framework of open architecture, designed specifically to support critical network applications and address unique vertical market considerations.

Under a traditional, vertically integrated business model, customers typically looked to one vendor to satisfy all their requirements, from building services and network management to consultancy and deployment. This approach not only limits choices, but also the level of product and technology innovation available, ultimately restricting the customer's ability to compete and deliver a competitive return on investment.

PANDUIT™ is working with customers to develop application driven product solution sets, in support of Voice over IP (VOIP), Ethernet to the home or office, and storage area networking deployment. Industry standards help to ensure that solutions work together. However, the unified approach goes one step further by testing the solutions for interoperability, functionality and performance, providing a further assurance that the end-to-end system will function at an optimum level.



PANDUIT CERTIFIED INSTALLER PROGRAMME

The *PANDUIT* Certified Installer (PCI) Programme was created to ensure that end-to-end *PANDUIT* Cabling Systems are installed properly and 100% tested to verify compliance with EIA/TIA industry standards. In support of these objectives, systems installed by *PANDUIT* Certified Installers are eligible for coverage under the *PANDUIT CERTIFICATION PLUS*™ Warranty Programme.

PANDUIT Certified Installers share our belief in providing high quality products and service. They have a BICSI RCDD or equivalent on staff, who understands structured cabling requirements to ensure a proper installation. In addition, theoretical and hands-on training is provided upon entrance into the PCI Programme and repeated regularly to help *PANDUIT* PCIs provide the best installation service in the industry.

The PCI Programme provides high-end design and installation companies with the training and support required to install and maintain leading edge *PANDUIT* Network Connectivity Solutions. What makes this programme unique is the establishment of a global network of consistently trained, qualified organisations to help you quickly and efficiently deploy a network infrastructure you can trust to support your toughest applications.



PANDUIT CERTIFIED DESIGNER PROGRAMME

The *PANDUIT* Network Connectivity Group offers the *PANDUIT* Certified Designer (PCD) Programme – an initiative designed to support the designer in providing high quality, state-of-the-art solutions in today's rapidly evolving communications market.

PANDUIT aims to develop a responsive and collaborative relationship with the certified designer. By creating a relationship with our certified designers, we work together to specify best in-class cabling solutions for each unique infrastructure application.

Specifying *PANDUIT* products provides customers with a broad spectrum of integrated cabling components that meet and surpass diverse national and multinational requirements. Around the world, *PANDUIT* leverages local expertise to customize our structured cabling solutions to the customer's needs.



PANDUIT™ CERTIFIED SYSTEMS INTEGRATOR PROGRAMME

The *PANDUIT* Certified Systems Integrator (PCSI) Programme is designed to create a network of partners who promote and design *PANDUIT* solutions with other technologies, services and products. This programme gives security to end-users by offering them a single source integrator from the physical to the application layers. PCSIs may provide additional assurance by offering the *PANDUIT CERTIFICATION PLUS™* Warranty package on the systems they install.

The PCSI programme offers valuable training and certifications, presenting the Systems Integrator with the opportunity to differentiate their services from the competition. Through this programme, Systems Integrators can increase their scope of service, control of the network, and their value to the end user. This exclusive programme is offered by *PANDUIT* to first class Systems Integrators to deliver best in class solutions to the end user.

PANDUIT SYSTEM WARRANTY

The *PANDUIT CERTIFICATION PLUS™* Warranty Programme provides a, complete product and system warranty to guarantee high performance cabling systems that meet the demands of today and tomorrow.

The *PANDUIT CERTIFICATION PLUS™* Warranty Programme is an inclusive commitment that guarantees:

- 100% product coverage and support sponsored by *PANDUIT* Corp.
- Warranty covering both COMPONENTS and LABOUR to repair or replace covered components and cable
- One point of contact for all cable and component questions
- Warranty direct from *PANDUIT* to the end-customer

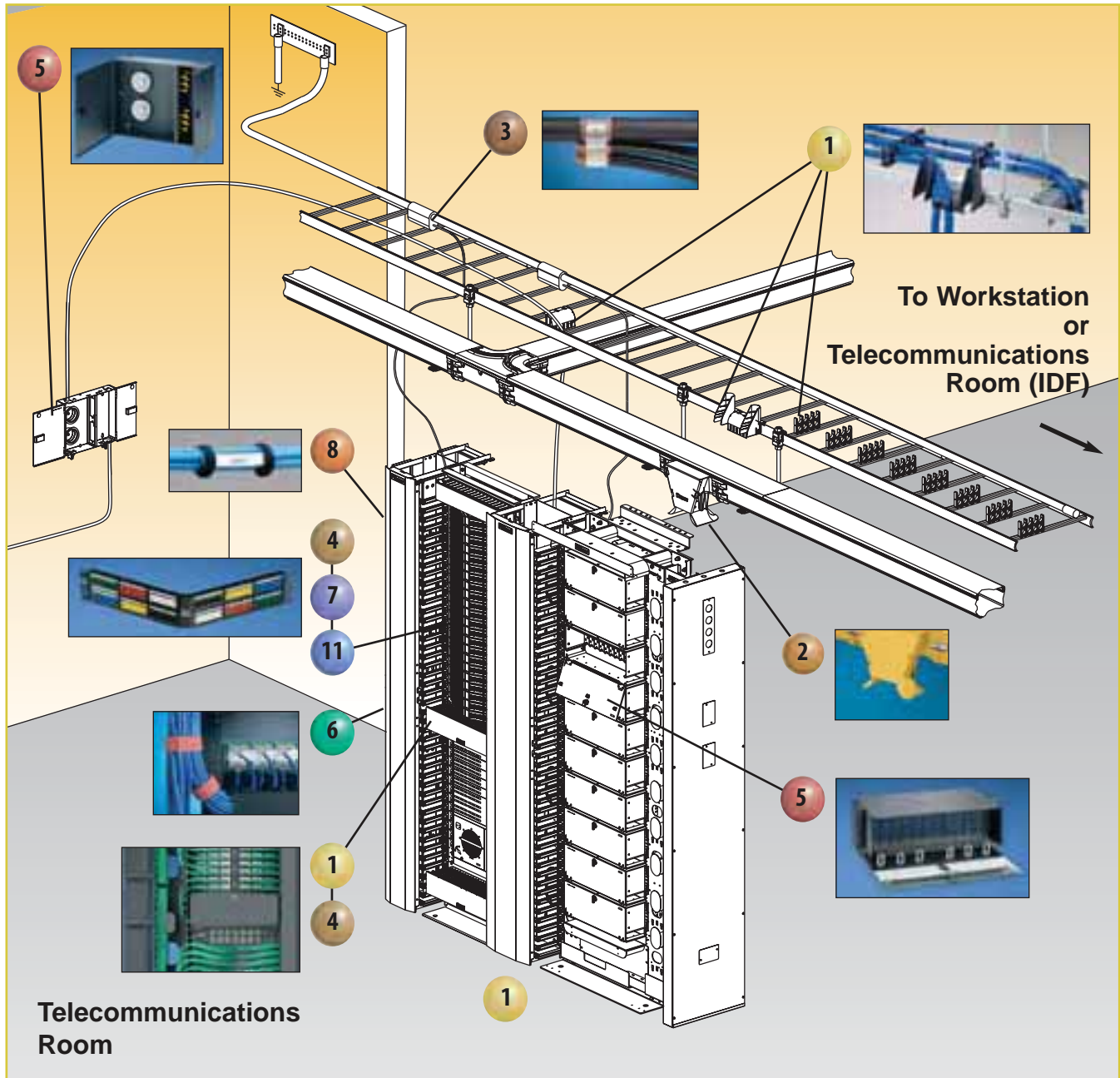
PANDUIT ensures:






- Structuring Cabling System will support all current and all future network applications
- Structuring Cabling System will be free of defects in materials and workmanship
- Structuring Cabling System will meet or exceed applicable performance requirements defined in the Commercial Building Telecommunications Cabling Standards

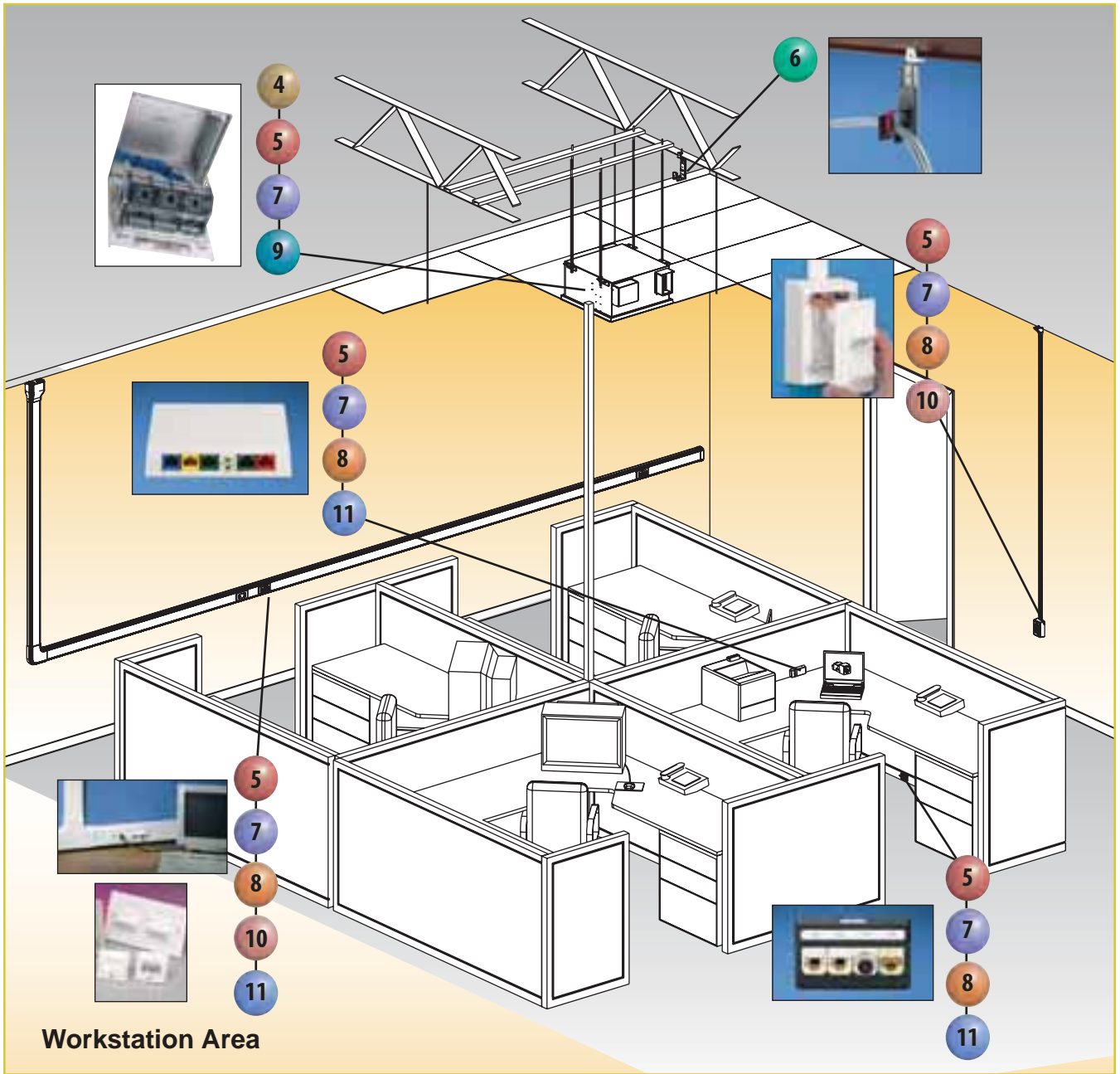
Ease of registration:

- Register warranty information at warranty@panduit.com using our electronic e-form process
- No minimum link requirement
- Technical staff available
- Allows freedom of cable choice

PANDUIT™ provides a wide variety of infrastructure solutions to support layouts such as these below.



<p>1 Racks and Cable Management (pages 131-157)</p> 	<p>2 Fibre Routing (pages 195-231)</p> 	<p>4 Patch Panels, Copper Patch Cords and Punchdowns (pages 53-87)</p> 	<p>5 Fibre Connectors, Enclosures and Patch Cords (pages 89-129)</p> 
	<p>3 Grounding and Bonding (pages 139-194)</p> 		



Workstation Area

6 Cable Ties and Accessories (pages 321-348)



7 Modules (pages 19-30)



8 ULTIMATE ID™ System and Work Area (pages 31-43)



9 Zone Cabling (pages 45-52)



10 Surface Raceway (pages 251-320)



11 Labelling and Administration (pages 349-356)



NOTES

COPPER AND FIBRE LINE CARDS SOLUTION



- Optimum Performance “Future Ready”
- Best ROI for high bandwidth applications
- High density solutions
- Low installation cost

CAT5e Unshielded TX Solution

TX™ 5500 CAT5e UTP cable



Part Number	Description
-------------	-------------

PUC5504LG-ED	UTP CAT5e general purpose cable. Conductors are 24 AWG construction with polyethylene insulation. The conductors are twisted in pairs and contained in a flame-retardant PVC jacket. Cable colour is Light Grey.
---------------------	--

PUL5504DG-ED	UTP CAT5e Low Smoke Zero Halogen cable. Conductors are 24 AWG construction with polyethylene insulation. The conductors are twisted in pairs and contained in a flame-retardant, low smoke, halogen free jacket. Cable colour is Dark Grey.
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MINI-COM™ TX 5e UTP Module



Part Number	Description
-------------	-------------

CJ5E88TGAW*	CAT5e, 8 position, 8 wire universal module. Exceeds the CAT5e TIA/EIA 568.B.2.1 standard. Modules utilise patented <i>GiGA-TX™</i> Technology to optimise performance by reducing conductor untwist. Compatible with <i>MINI-COM™</i> Modular Patch Panels, Faceplate and Surface Mount Boxes. <i>MINI-COM™</i> CAT5e modules are available in 13 colours for easy identification and future move, adds and changes and can be clearly identified with optional labels and icons.
--------------------	---

(* for module colour other than Artic White, replace "AW" with EI (Elec. Ivory), IW (Inter. White), IG (Inter. Grey), BL (Black) OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow), VL (Violet), BR (Brown), WH (White).



CAT5e Modular Plug and Termination Tool

MP588-M	<i>PAN PLUG™</i> modular plug with tangle free latch. Terminate 24 AWG stranded cable or solid conductor with a max conductor insulation diameter of 1.02mm.
----------------	--

MINI-COM™ Modular Patch Panel & DP5e Data Punch Panel



Part Number	Description
-------------	-------------

CPP24WBL*	24 port patch panel supplied with 6 CFFP4 type snap-in faceplates which allow front access for easy moves, adds and changes. CPP24WBL occupies 1RU and is supplied with metric and imperial screws.
------------------	---

DP245E88TG	Universal 24 port patch panels specifically designed to comply with CAT5e performance requirements. DP5e patch panels adopt a printed circuit board design with a punch down termination system. Wiring scheme T568A and T568B are clearly identified on the back of the panel. Write-on area on the front of the panel allows clear identification for easy installation and future moves, adds and changes. <i>PANDUIT™</i> Punch Data patch panels are available in angled versions, with 24 or 48 ports.
-------------------	--

(* for modular panels with 32 or 48 port, replace "24" in the part number with either "32" or "48" accordingly.

(**) for data patch panels with 48 or 96 port, replace "24" in the part number with either "48" or "96" accordingly

CAT5e UTP Patch Cords



Part Number	Description
-------------	-------------

UTPCH1M*	Enhanced CAT5e patch cords constructed with 24 AWG UTP stranded cable and enhanced modular plugs on both ends. <i>PANDUIT</i> CAT5e patch cords exceed TIA/EIA 568-B 2.1 CAT5e standard requirements.
-----------------	---

* For different metre lengths other than one metre replace "1" in the part number with 2 (two metres), 3 (three metres), 5 (five metres). For patch cords with blue cable add suffix "BU" in the part number (i.e. UTPSP3MBU = 3 metres length, blue colour). Non standard length also available. Contact *PANDUIT* Customer Service for more details.

PATCHLINK™ Horizontal Cable Managers



Part Number	Description
-------------	-------------

WMPH2E	2 RU horizontal cable manager with patented dual hinged cover for extra cable protection and pass through hole to allow cables to run from front to rear. Flexible fingers allow easy adds, moves and changes and help to maintain bend radius control. Mounts on a 19" rack or cabinet, front and rear.
---------------	--

WMPHF2E	Horizontal cable manager is as above, but front only.
----------------	---

WMPSE	1 RU horizontal cable manager with patented dual hinged cover for extra cable protection and pass through hole to allow cables to run from front to rear. Flexible fingers allow easy adds, moves and changes and help to maintain bend radius control. Mounts on a 19" rack or cabinet, front and rear.
--------------	--

WMPFSE	Horizontal cable manager is as above, but front only.
---------------	---

More options are available. Please contact *PANDUIT* Customer Service or visit www.panduit.com/emea

MINI-COM™ Faceplates



Part Number	Description
-------------	-------------

CFPFS2SAW	45x45 two port faceplate kit with shutter door for dust and dirt protection.
------------------	--

CFPUKS2SWH	86x86 two port single gang faceplate with sloped insert and shutter doors. Provided with labels and label covers for easy identification.
-------------------	---

CFPH4IW	70x114 four port horizontal faceplate. Blanks modules are available separately.
----------------	---

CHES3AW	55x55 three port faceplate with sloped inert. Supplied with screws, labels and label covers for easy identification.
----------------	--

CFPDS2SEW	77.1x50.4 two port faceplate with sloped insert and shutter door.
------------------	---

More faceplates are available in different types and colours. See *PANDUIT* catalogue for full details or contact *PANDUIT™* customer services. *For termination tool, see page 30

TX™ 5500 CAT5e FTP CABLE



Part Number	Description
PFC5504LG-E	FTP CAT5e general purpose cable. Conductors are 24 AWG construction with polyethylene insulation. The conductors are twisted in pairs and wrapped in foil contained in a flame-retardant PVC jacket. Cable colour is Light Grey.
PFL5504DG-E	FTP CAT5e low smoke, zero halogen cable. Conductors are 24 AWG construction with polyethylene insulation. The conductors are twisted in pairs and wrapped in foil contained in a flame-retardant, low smoke, halogen free jacket. Cable colour is Dark Grey.

CAT5e Shielded TX Solution

MINI-COM™ TX-5e Shielded Module



Part Number	Description
CJS5E88TG	Category 5e 8 position, 8 wire 10G shielded jack module comes with a prefitted shield that provides a 360 cable shield continuity maximising immunity to EMI. The wire cap optimises the termination, by reducing conductor untwist, for performance and repeatability. The cap is fitted with colour code information to assist termination to either T568A or B.

MINI-COM™ Metal Patch Panel



Part Number	Description
CP16BL*	Designed specifically for shielded applications, PANDUIT™ Metal patch panel accepts MINI-COM™ Modules which snap directly into the panel.
CP24WSBL	Patch panels with strain relief bar, which provides cable management and improved bend radius protection. Write-on areas available for port identification. Mount to standard TIA/EIA 19" or 23" racks (optional extender bracket).

* for Metal Patch Panels with 24, 48, 72 or 96 ports replace "16" in the part number accordingly (i.e.CP96BL = Metal Patch Panel 96 ports)

PATCHLINK™ Horizontal Cable Managers



Part Number	Description
WMPH2E	2 RU horizontal cable manager with patented dual hinged cover for extra cable protection and pass through hole to allow cables to run from front to rear. Flexible fingers allow easy adds, moves and changes and help to maintain bend radius control. Mounts on a 19" rack or cabinet, front and rear.
WMPHF2E	Horizontal cable manager is as above but front only.
WMPSE	1 RU horizontal cable manager with patented dual hinged cover for extra cable protection and pass through hole to allow cables to run from front to rear. Flexible fingers allow easy adds, moves and changes and help to maintain bend radius control. Mounts on a 19" rack or cabinet, front and rear.
WMPFSE	Horizontal cable manager is as above but front only.

More options are available. Please contact PANDUIT Customer Service or visit www.panduit.com/emea

CAT5e Shielded Patch Cords



Part Number	Description
STPC1MBBL*	Shielded CAT5e Patch Cords with modular PAN-PLUG™ on both ends. <small>* For other metre lengths replace "1" in the part number with "2" (two metres), "3" (three metres), "5" (five metres) Non standard lengths also available. Contact PANDUIT Customer Service for more details.</small>

CAT6 PLUS Unshielded TX Solution

TX6000 CAT6 UTP Cable



Part Number	Description
PUC6004LG-ED	UTP CAT6 general purpose cable. Conductors are 24 AWG construction with polyethylene insulation. The conductors are twisted in pairs and contained in a flame-retardant PVC jacket. Accepts next generation application - tested to 350 MHz. Cable colour is Light Grey
PUL6004DG-ED	UTP CAT6 low smoke, zero halogen cable. Conductors are 24 AWG construction with polyethylene insulation. The conductors are twisted in pairs and contained in a flame-retardant, low smoke, halogen free jacket. Accepts next generation application. Cable colour is Dark Grey

MINI-COM™ TX-6 PLUS™ Module



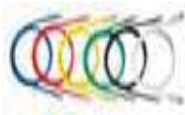
Part Number	Description
CJ688TG*	CAT6 PLUS™, 8 position, 8 wire universal module. Exceeds the CAT6 TIA/EIA 568.B.2.1 standard. Utilises patented GIGA-TX™ Technology to optimise performance by reducing conductor untwist. Compatible with MINI-COM™ Modular Patch Panels, Faceplate and Surface Mount Boxes. MINI-COM™ CAT6 PLUS™ modules are available in 13 colours for easy identification and can be clearly identified with optional labels and icons (*) for module colour other than Artic White, replace "AW" with EI (Elec.Ivory), IW (Inter. White), IG (Inter. Grey), BL (Black) OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow), VL (Violet), BR(Brown), WH (White)

MINI-COM™ Snap-in Patch Panel



Part Number	Description
CPP24WBL	24 port patch panel supplied with 6 CFFP4 type snap-in faceplates. Allow front access for easy moves, adds and changes. CPP24WBL occupies 1RU and it is supplied with metric and imperial screws.
DP24688TG	48 Universal 24 port patch panels specifically designed to supply with CAT6 PLUS™ performance requirements. Write-on area allows for clear identification for easy installation and future moves, adds or changes. The 24 or 48 port panels are also available in angled versions (*) For modular panels with 32 or 48 ports, replace "24" in the part number with either "32" or "48" accordingly. (*) for data patch panels with 48 or 96 ports, replace "24" in the part number with either "48" or "96" accordingly.

CAT6 PLUS™ Patch Cords



Part Number	Description
UTPSP1M*	Constructed of next generation 24 AWG UTP stranded cable and enhanced modular plugs for superior performance plugs. Contacts are plated with gold for superior reliability. The new CAT6 PLUS™ patch cords exceed TIA/EIA 568-B 2.1 CAT6 standard. * For different metre length other than one metre replace "1" in the part number with 2 (two metres), 3 (three metres), 5 (five metres). For patch cords with Blue cable add suffix "BU" in the part number (i.e. UTPSP3MBU = 3 metres length, blue colour). Non standard length also available. Contact PANDUIT™ Customer Service for more details.






PATCH-LINK™ Horizontal Cable Managers



Part Number	Description
WMPH2E	2 RU horizontal cable manager with patented dual hinged cover for extra cable protection and pass through hole to allow cables to run from front to rear. Flexible fingers allow easy adds, moves and changes and help to maintain bend radius control. Mounts on a 19" rack or cabinet, front and rear.
WMPHF2E	Horizontal cable manager is as above but only.
WMPSE	1 RU horizontal cable manager with patented dual hinged cover for extra cable protection and pass through hole to allow cables to run from front to rear. Flexible fingers allow easy adds, moves and changes and help to maintain bend radius control. Mounts on a 19" rack or cabinet, front and rear.
WMPFSE	Horizontal cable manager is as above but front only. More options are available. Please contact PANDUIT™ Customer Service or visit www.panduit.com/emea

MINI-COM™ Faceplates



Part Number	Description
 CFPFS2SAW	45x45 two port faceplate kit with shutter door for dust and dirt protection.
 CFPUKS2SWH	86x86 two port single gang faceplate with sloped insert and shutter doors. Provided with labels and label covers for easy identification.
 CFPH4IW	70x114 four port horizontal faceplate. Blanks modules are available separately.
 CHES3AW	55x55 three port faceplate with sloped inert. Supplied with screws, labels and label covers for easy identification.
 CFPDS2SEW	77.1x50.4 two port faceplate with sloped insert and shutter door. More faceplates in different types and colours are available. See PANDUIT catalogue for full details or contact PANDUIT customer services. *For termination tool, see page 30

CAT6 PLUS Shielded TX Solution

CAT6 PLUS™ Modular Plug and Termination Tool



Part Number	Description
SP688-C	The TX6™ PLUS™ Modular Plug employs an Integral Pair Manager that locks conductors into place at the centre of the plug range. The new plug also features an integral strain relief and boot to maintain the proper bend radius on the patch cable to improve installed performance and lengthen the life of the patch cord. Sold in a bag of 100 pieces.
MPT5-8	MPT5-8 terminates both CAT5e and CAT6 PLUS™ plug types.



TX 6000 category 6 FTP Cable

Part Number	Description
PFC6004LG-ED	FTP CAT6 general purpose cable. Conductors are 24 AWG construction with polyethylene insulation. The conductors are twisted in pairs and wrapped in foil contained in a flame-retardant PVC jacket. Accepts next generation application - tested to 350 MHz. Cable colour is Light Grey.
PFL6004DG-ED	FTP CAT6 low smoke, zero halogen cable. Conductors are 24 AWG construction with polyethylene insulation. The conductors are twisted in pairs and wrapped in foil contained in a flame-retardant, low smoke, halogen free jacket. Accepts next generation applications. Cable colour is Dark Grey.

MINI-COM™ TX-6™ PLUS Shielded Module



Part Number	Description
CJS688TG	CAT6 PLUS™ jack module, 8 position, 8 wire with one piece shield. Exceed CAT6 TIA/EIA 568.B.2.1 standard. Utilises patented GIGA-TX™ Technology to optimise performance by reducing conductor untwist. Can be clearly identified with optional labels and icons. Compatible with MINI-COM™ Metal Modular Patch Panels, Faceplates and Surface Mount Boxes.

MINI-COM™ Metal Patch Panel



Part Number	Description
CP16BL*	Designed specifically for shielded applications, PANDUIT™ Metal patch panel accept MINI-COM™ Modules for STP applications, which snap directly into the panel.
CP24WSBL**	Patch panels with strain relief bar, which provides cable management and improved bend radius protection. Write-On areas available for port identification. Mount to standard TIA/EIA 19" or 23" racks (with optional extender bracket).

* for Metal Patch Panels with 24, 48, 72 or 96 ports replace 16 in the part number accordingly. (i.e. CP96BL = Metal Patch Panel 96 ports)

PATCH-LINK™ Horizontal Cable Managers



Part Number	Description
WMPH2E	2 RU horizontal cable manager with patented dual hinged cover for extra cable protection and pass through hole to allow cables to run from front to rear. Flexible fingers allow easy adds, moves and changes and help to maintain bend radius control. Mounts on a 19" rack or cabinet, front and rear.
WMPHF2E	Horizontal cable manager is as above but mounts on a 19" rack or cabinet, front only.
WMPSE	1 RU horizontal cable manager with patented dual hinged cover for extra cable protection and pass through hole to allow cables to run from front to rear. Flexible fingers allow easy adds, moves and changes and help to maintain bend radius control. Mounts on a 19" rack or cabinet, front and rear.
WMPFSE	Horizontal cable manager is as above but front only.

CAT6 Shielded Patch Cords



Part Number	Description
STP6X1MBBL*	Shielded Patch Cords for use with Mini-Com™ TX-6™ Shielded Modules. Patented tangle free latch prevents snags and provides easy release, saving time on frequent moves, adds and changes.

* For other metre length replace 1 in the part number with 2 (two metres), 3 (three metres), 5 (five metres). Non standard length also available. Contact PANDUIT Customer Service for more details.

TX6 10G UTP Solution

TX6 10Gig™ Cable

Part Number	Description
PUL6X04WH-E	The UTP 10G Low Smoke Zero Halogen cable has a unique construction that suppresses Alien Crosstalk in a cable bundle, an important parameter of 10G Ethernet transmissions. The conductors are of a 23 AWG construction with polyethylene insulation. The cable colour is white and it comes supplied on 305m reels.



TX6 10Gig™ JACK MODULE

Part Number	Description
CJ6X88TG**	8 position, 8 wire 10G jack module comes with a wire cap that optimises the termination, by reducing conductor untwist, for performance and repeatability. The cap is fitted with colour code information to assist termination to either T568A or B.

** Substitute for different module colours:

WH = White	IW = Off White	AW = Artic white	RD = Red	EI = Electric Ivory
BU = Blue	IG = International Grey	GR = Green	BR = Brown	YL = Yellow
OR = Orange	VL = Violet	BL = Black		

MINI-COM™ PATCH PANELS

Part Number	Description
	These standard 19" rack mount panels accept the <i>MINI-COM™</i> modules which simply snap into place.
CPP24WBL	24 Port panel supplied with 6 CFFPL4 snap in faceplates.
CPP48WBL	48 Port panel supplied with 12 CFFPL4 snap in faceplates
CPPL24WBL	24 Port panel supplied with labels and 6 CFFPL4 snap in faceplates.
CPPL48WBL	48 Port panel supplied with labels and 12 CFFPL4 snap in faceplates

Flat - DP6 10Gig™ Punchdown Patch Panels



Part Number	Description
DP246X88TG	24 port flat punchdown panel
DP486X88TG	48 port flat punchdown panel

Angled - DP6 10Gig™ Punchdown Patch Panels



Part Number	Description
DPA246X88TG	24 port angled punchdown panel
DPA486X88TG	48 port angled punchdown panel

TX6 10Gig™ Patchcords



Part Number	Description
UTP6X**M	The 10G UTP patchcords have been optimised to provide superior performance matching to the 10G jack module delivering high end system channel performance. The patchcords are supplied with white cable as standard

Add BU to the end of the part number for Blue patchcords i.e. UTP6X2.5MBU for a 2.5m blue patchcord.
 ** Substitute for different lengths from the following standard parts 0.5m, 1m, 1.5m, 2m, 2.5m, 3m, 5m and 7m.

TX6 10G Shielded Solution

TX6 10Gig™ Cable

Part Number	Description
PSC7004LG-ED	FTP 10G General purpose PIMF cable. The conductors are of a 23 AWG construction with polyethylene insulation. The conductors are twisted pairs with each pair in a metal foil and contained in a flame retardant PVC jacket. The cable colour is Light Grey and comes supplied on 500m reels.
PSL7004DG-ED	FTP 10G General purpose PIMF cable. The conductors are of a 23 AWG construction with polyethylene insulation. The conductors are twisted pairs with each pair in a metal foil and contained in a flame retardant PVC jacket. The cable colour is Light Grey and comes supplied on 500m reels..



MINI-COM™ Shielded Module

Part Number	Description
CJS6X88TG	8 position, 8 wire 10G shielded jack module comes with a prefitted shield that provides a 360 cable shield continuity maximising immunity to EMI. The wire cap optimises the termination, by reducing conductor untwist, for performance and repeatability. The cap is fitted with colour code information to assist termination to either T568A or B.

MINI-COM™ Metal Patch Panel

Part Number	Description
	The <i>MINI-COM™</i> panels are specifically designed for shielded applications. The <i>MINI-COM™</i> modules simply snap into place.
CP16BL	16 Port, 1RU black panel
CP24BL	24 Port, 1RU black panel
CP48BL	48 Port, 1RU black panel
CP72BL	72 Port, 1RU black panel
CP96BL	96 Port, 1RU black panel

10G Shielded Patchcords



Part Number	Description
STP6X**MDDL	The 10G patchcords have been optimised to provide superior performance matching to the 10G jack module delivering high end system channel performance. <i>The patchcords are offered in coloured cable with black boots. For other cable colours replace the suffix with BU (Blue), GR (Green), RD (Red) and YL (Yellow).</i> <i>** The patchcords are available in the following lengths, 1m, 1.5m, 2m, 2.5m, 3m, 5m and 7m. i.e. for a 2.5m cord with blue cable the part number is STP6X2.5MDDL</i>

Condensed Fibre Solution Line Card / Singlemode

OPTI JACK™ Fibre Connectors



Part Number	Description
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FJGS9CBU	<i>OPTI-JACK™</i> small form factor, duplex singlemode 9/125 optical connector, field polish, accept 900n tight buffer and 3.0mm jacketed fibre. Includes a dust cup for superior protection. Blue housing and boots simplify singlemode identification
FJEPGS9CBU	<i>OPTI-PLUG™</i> small form factor, duplex singlemode 9/125 optical plug, field polish, accept 900n tight buffer and 3mm jacketed fibre. Includes a dust cup for superior protection. Blue housing and boots simplify singlemode identification
FSCSBU	SC Fibre Optic connector singlemode, field polish, accept 900n tight buffer and 3.0mm jacketed fibre. Includes a dust cup for superior protection. Blue housing and boots simplify singlemode identification
FSTSABU	ST Fibre Optic connector singlemode, field polish, accept 900n tight buffer and 3.0mm jacketed fibre. Includes a dust cup for superior protection. Blue housing and boots simplify singlemode identification
FLCDSBU	LC duplex fibre optic connectorsingle mode 9/125. Terminate 1.6mm or 2.0mm jacketed cable and 900n tight buffered fibre. Field polish termination. Blue housing and boots simplify singlemode identification
FLCSSBU	LC simplex fibre optic connector singlemode 9/125. Terminate 1.6mm or 2.0mm jacketed cable and 900n tight buffered fibre. Field polish termination. Blue housing and boots simplify singlemode identification



Adapter Modules



Part Number	Description
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CMSBUSCZ	SC simplex fibre adapter module with zirconia split sleeve for singlemode applications. Available in different colours.
CMDBUSCZ	SC duplex fibre adapter module with zirconia split sleeve for singlemode applications. Available in different colours.
CMDJLCZ	LC fibre adapter module with zirconia split sleeve for singlemode applications. Available in different colours.
CMDSLCZ	LC fibre adapter module supplied with Sr/Sr mini duplex singlemode with zirconia split sleeve. Available in different colours.
CMSTZ	ST fibre adapter module supplied with zirconia split sleeve for singlemode applications. Available in different colours.
CMFCZ	FC fibre adapter module with zirconia split sleeve for singlemode applications. Available in different colours.
CMMJ	MTRJ fibre adapter module mounts on all <i>MINI-COM™</i> faceplates and boxes. Available in different colours.
FASSLCZBU-L	LC simplex singlemode fibre adapter Sr/Sr with zirconia split sleeves (adapter only).
FADSLCZBU-L	LC duplex singlemode fibre adapter Sr/Sr with zirconia split sleeves (adapter only).
FASSCZBU-L	SC simplex singlemode fibre adapter with zirconia split sleeves (adapter only).
FADSCZBU-L	SC duplex singlemode fibre adapter with zirconia split sleeves (adapter only).
FADJLCZBU-L	LC duplex singlemode fibre adapter Sr/Jr mini with zirconia split sleeves (adapter only).
FASJLCZBU-L	LC simplex singlemode fibre adapter Sr/Jr with zirconia ceramic split sleeves (adapter only).



Fibre Patch Cords



Part Number	Description
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OM3	<i>OPTI-CORE™</i> 10 GIG multimode 50/125n Fibre Optic Patch Cords and Pigtailed. Available in different lengths and types.
OM2	Fibre optic multimode and single patch cords and pigtailed. Available in different lengths and types. <i>For more information on part numbers and prices please contact PANDUIT™ Customer Services. Non standard lengths available.</i>

Termination Kits



Part Number	Description
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FJKITG	Standard fibre optic termination kit for field polish termination.
FJMVKIT	<i>OPTI-JACK™</i> pre-polished connectors termination kit with visual fault locator. Easy crimp and 100% guarantee of correct termination.

**For termination tool, see page 30*

Condensed Fibre Solution Line Card / Singlemode

Fibre Adapters Panels



Part Number	Description
FAP6WBUDSC	Preloaded with 6 SC simplex multimode/singlemode adapters. Snaps quickly and simply in front of panel for ease of access to the back.
FAP8WST	Preloaded with 8 ST multimode/singlemode adapters. Snaps quickly and simply in front of panel for ease of access to the back.
FAP6WEIDSC	Preloaded with 6 SC duplex multimode/singlemode adapters. Snaps quickly and simply in front of panel for ease of access to the back.
FAP12EWST	Preloaded with 12 ST multimode/singlemode adapters. Snaps quickly and simply in front of panel for ease of access to the back.
FAP6WBUDLCZ	Preloaded with 6 LC duplex singlemode adapters. Snaps quickly and simply in front of panel for ease of access to the back.
FAP6WFC	Preloaded with 6 FC simplex multimode/singlemode adapters. Snaps quickly and simply in front of panel for ease of access to the back.

More Fibre Adapter Panels are available. Contact PANDUIT™ Customer Services for more information.

Fibre Adapter Patch Panels



Part Number	Description
CFAPPBL1	Mounts on the front of FMT1. Accepts 4 fibre adapter panels.
CFAPPBL2	Mounts on the front of FMT2. Accepts 8 fibre adapter panels.

Fibre Mount Trays & Drawers



Part Number	Description
FMT's	Fibre mount trays available in 1 and 2 RU. Accept up to 4 fibre splice trays. Mount on 19" rack. Use front panel CFAPPBL1 or CFAPPBL2.
FMD's	Slide out drawers available in 1 and 2 RU. Accept up to 4 fibre splice trays. Mount on 19" rack. Accept up to 8 fibre adapter panels.
FT1W's	Preloaded fibre trays available with 12 ST, 24ST, & 12 Duplex SC. Empty version with 24 modular ports is available.

Wall Mount Enclosure



Part Number	Description
FWME's	Wall mount enclosures for building to building connections, terminates outside plants to IFC cable. Small & secure can be virtually mounted anywhere. Available in 12, 24 or 48 ports. Preloaded version available.

Fibre Rack Mount Enclosures



Part Number	Description
FRME's	Mount on 19" rack to support up to 144 Sc, 96 ST or 144 FJ termination. Hold up to 3 splice trays and 12 Fibre Adapter panels

HD Fibre Distribution System



Part Number	Description
TREN's	One-piece welded construction racks to be used with OPTI-COM™ HD enclosures. Optimise space and reduce global cost of installation. OPTI-COM™ fibre optic distribution enclosure provides a complete fibre management system. Different models available.



FIBERRUNNER™








Part Number	Description
FR's	FIBERRUNNER™ is the ultimate PANDUIT™ fibre routing system. Developed to protect and segregate fibre cable running to and from telecommunication rooms and equipment rooms. Allows for a clean and tidy work environment, implement easy moves, adds and changes. A unique QUIKLOCK™ coupler allows channels to snap together in less than 5 seconds reducing time and cost of installation. Full range available in 2x2, 4x4, 6x4 and 12x4.
SA-FRVD01	FIBERRUNNER™ Installation Training DVD.
FRLT	FIBERRUNNER™ Layout tool v2.0 for easy design and configuration of PANDUIT's FIBERRUNNER™ and FIBRE-DUCT™ Routing System in structured cabling design.

Condensed Fibre Solution Line Cards / Multimode

OPTI PLUG™ Jack Connectors




Part Number	Description
 FJJGM5CEI	<i>OPTI-JACK™</i> small form factor, duplex multi mode 62.5/125 or 50/125 connector, pot & polish, accept 900n tight buffer and 3.0mm jacketed fibre. Includes a dust cup for superior protection. Ivory housing and boots simplify multi mode identification. Available in different colours
 FJEPM5CEI	<i>OPTI-PLUG™</i> small form factor, duplex multi mode 62.5/125 or 50/125 fibre optic plug, pot & polish, accept 900n tight buffer and 3.0mm jacketed fibre. Includes two dust cups for superior protection. Ivory housing and boots simplify multi mode identification. Available in different colours
FJJSMM5CEI	<i>OPTI-JACK™</i> small form factor, duplex multi mode 62.5/125 mechanical crimp connector, pre-polished, accepts 900n tight buffer and 3.0mm jacketed fibre. Exclusive crimp termination guarantees superior performance while reducing installation costs. Available in different colours
FJJSMM50CEI	<i>OPTI-JACK™</i> small form factor, duplex multi mode 50/125 mechanical crimp connector, pre-polished, accept 900n tight buffer and 3.0mm jacketed fibre. Exclusive crimp termination guarantees superior performance while reducing installation costs. Available in different colours
FJGCCEI	Adapter to mate two FJ duplex fibre optic multimode or single mode plugs. Not for use in Mini-Com surface mount boxes

Fibre Optic Connectors

Part Number	Description
 FSCMM	SC fibre mechanical crimp connector multimode 62.5/125, factory pre-polished for a superior performance and lower installation costs. Available in red and black boots.
 FSCMM50	SC fibre mechanical crimp connector multimode 50/125, factory pre-polished for a superior performance and lower installation costs. Available in red and black boots.
 FSTMM	ST fibre mechanical crimp connector multimode 62.5/125, factory pre-polished for a superior performance and lower installation costs. Available in red and black boots.
 FSTMM50	ST fibre mechanical crimp connector multimode 50/125, factory pre-polished for a superior performance and lower installation costs. Available in red and black boots.
 FLCSMEI	LC simplex fibre optic connector multimode 62.5/125 or 50/125. Terminate 1.6mm or 2.0mm jacketed cable and 900n tight buffered fibre. Field polish termination.
FLCDMEI	LC duplex fibre optic connector multimode 62.5/125 or 50/125. Terminate 1.6mm or 2.0mm jacketed cable and 900n tight buffered fibre. Field polish termination.


More connectors can be ordered to fit different applications and needs. See Panduit catalogue or visit www.panduit.com for more information

Adapter Modules

Part Number	Description
 CMDEISC	Module supplied with one SC multimode duplex fibre adapter with phosphor bronze split sleeves. Available in different colours.
CMSEISC	Module supplied with one SC multimode simplex fibre adapter with phosphor bronze split sleeves. Available in different colours.
CMDSL	Module supplied with one LC Sr/Sr multimode duplex fibre optic adapter with phosphor bronze split sleeves. Available in different colours.
 CMDJLC	Module supplied with one LC Sr/Jr multimode duplex fibre optic adapter with phosphor bronze split sleeves. Available in different colours.
CMDJLC	Module supplied with one LC Sr/Jr multimode duplex fibre optic adapter with phosphor bronze split sleeves. Available in different colours.
CMDBUSC	Module supplied with one SC duplex fibre adapter with phosphor bronze split sleeve - blue adapter - Available in different colour.
 CMFC	Module supplied with one FC multimode fibre optic adapter with phosphor bronze split sleeves. Available in different colours.
CMBA	Module supplied with industry standard 75 or 50 Ohm BNC coupler. Available in different colours.
CMFSR	Module supplied with industry standard 75 Ohm self terminating F-Type coupler. Available in different colours.
CMBIW-X	Blank module compatible with Mini-com modular patch panels, faceplates and mount boxes. One position, reserves space for the future.

More adapter modules can be ordered to fit different applications and needs. See Panduit catalogue or visit www.panduit.com

Fibre Patch Cords

Part Number	Description
 OM3	<i>OPTI-CORE™ 10 GIG™</i> multimode 50/125n Fibre Optic Patch Cords and Pigtails. Available in different length and types.
OM2	Fibre optic multimode and single patch cords and pigtails. Available in different length and types.

For more information contact Panduit Customer Services or visit www.panduit.com - Non standard lengths available.

Condensed Fibre Solution Line Cards / Multi mode

Fibre Adapter Panels



Part Number	Description
FAP6WBUDSC	Preloaded with 6 SC duplex multimode/singlemode adapters. Snaps quickly and simply in front of panel for ease of access to the rear.
FAP8WST	Preloaded with 8 ST multimode/singlemode adapters. Snaps quickly and simply in front of panel for ease of access to the rear.
FAP6WEIDSC	Preloaded with 6 SC duplex multimode/singlemode adapters. Snaps quickly and simply in front of panel for ease of access to the rear.
FAF12WAGSCZ	Preloaded with 12 SC APC simplex multimode adapters. Snaps quickly and simply in front of panel for ease of access to the rear.
FAP6WEIDLC	Preloaded with 6 LC duplex multimode adapters. Snaps quickly and simply in front of panel for ease of access to the rear.

More Fibre Adapter Panels are available. For more information contact Panduit Customer Services or visit www.panduit.com

Fibre Adapter Patch Panels



Part Number	Description
CFAPPBL1	Mounts on the front of FMT1. Accepts 4 fibre adapter panels.
CFAPPBL2	Mounts on the front of FMT2. Accepts 8 fibre adapter panels.

Fibre Mount Trays & Drawers



Part Number	Description
FMT's	Fibre mount trays available in 1 and 2 RU. Accept up to 4 fibre splice trays. Mount on 19" rack. Use front panel CFAPPBL1 or CFAPPBL2.
FMD's	Slide out drawers available in 1 and 2 RU. Accept up to 4 fibre splice trays. Mount on 19" rack. Accept up to 8 fibre adapter panels.
FT1W's	Preloaded fibre trays and available with 12 ST, 24ST, 12 Duplex SC. Empty version with 24 modular ports is available.

Wall Mount Enclosure



Part Number	Description
FWME's	Wall mount enclosures for building to building connections, terminates outside plants to IFC cable. Small and secure can be virtually mounted anywhere. Available in 12, 24 or 48 ports. Preloaded version available

Fibre Rack Mount Enclosures



Part Number	Description
FRME's	Mount on 19" rack to support up to 144 Sc, 96 ST or 144 FJ termination. Hold up to 3 splice trays and 12 Fibre Adapter panels.

HD Fibre Distribution System / Fibre Runner



Part Number	Description
FR's	<i>FIBER RUNNER™</i> is the ultimate Panduit fibre routing system. Developed to protect and segregate fibre cable running to and from telecommunication rooms and equipment rooms. Allows for a clean and tidy work environment, implement easy moves, adds and changes. A unique QuikLock coupler allows channels to snap together in less than 5 second reducing time and cost of installation. Full range available in 2x2, 4x4, 6x4 and 12x4.
SA-FRVD01	<i>FIBER RUNNER™</i> Installation Training DVD. Play on multi region DVD player or region 1 player
FRLT	<i>FIBER RUNNER™</i> Layout tool v2.0 for easy design and configuration of Panduit's <i>FIBER RUNNER™</i> and <i>FIBER-DUCT™</i> Routing System in structured cabling design

Termination kits

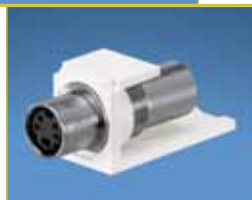


Part Number	Description
FJKITG	Standard fibre optic termination kit and consumable for field polish connectors
FJMVKIT	Opti-Jack Pre-Polished connectors' termination kit with Visual Fault Locator. Easy crimp and 100% guarantee of correct termination.
FVFLKIT	Visual fault locator kit included FVFL (visual fault lacator) and FVFLPC (patch cord)
FVFL	Visual fault locator.
FVFLPC	Patch cord to connect FVFL to fibre connector.
FLPKIT-W	Standard fibre optic termination kit and consumable for field polish LC connectors. Includes FHSC heat shrink curing tool 240 volts.

NOTES

MODULES

The PANDUIT™ Network Connectivity Group offers solutions for copper, fibre and audio video cabling applications. *MINI-COM™* modules exceed the latest TIA/EIA-568-B requirements for maximum performance and reliability and are designed for fast moves, adds and changes. Multiple module colours allow colour-coding for network segregation to accommodate your specific network strategy.



- Modules are interchangeable within PANDUIT™ *MINI-COM™* outlets, boxes and patch panels
- Copper TX Style Jack Modules feature *GIGA-TX™* Technology which optimises performance by reducing conductor untwists along with reducing installation expense. TX Style Jack Modules utilise a forward motion termination, placing no impact on critical internal components for maximum reliability
- Punchdown and pass-through versions are available for both RCA and S-Video modules
- Fibre adapters are available with phosphor bronze or zirconia ceramic split sleeves for use with multimode or singlemode connectors and patch cords

Copper modules include *TX6™ PLUS*, *TX5e™* and Category 3 jack modules. Fibre optic adapter modules include LC, SC, ST*, MT-RJ and FC versions. Audio video adapters are also available for BNC, F-Type Connectors, RCA and S-Video applications.

*ST is a registered trademark of Lucent Technologies



MINI-COM™ TX6™ PLUS Jack Module

- Exceeds TIA/EIA-568-B.2-1 Category 6 and ISO11801 2nd Edition Class E standard
- Each jack is 100% tested to ensure NEXT and RL performance and is individually serialised for traceability
- Utilises patent-pending enhanced GIGA-TX™ Technology for jack terminations which optimises performance by maintaining cable pair geometry and eliminating conductor untwist
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilising a smooth forward motion without impact on critical internal components for maximum reliability
- Can be re-terminated a minimum of 10 times
- Off White termination cap designates Category 6 PLUS performance and provides a positive strain relief, helps control cable bend radius and securely retains wires
- Terminates 4 pair, 22 – 24 AWG, 100 ohm, solid or stranded twisted pair cable
- Termination cap is colour 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



Part Number	Part Description	No. of Module Spaces	Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CJ688TGIW	Category 6, 8 position, 8 wire universal module.	1	Off White	1	50

‡ For other colours replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Grey), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow) or VL (Violet).
Termination tool available on page 30.

To ensure optimal performance, PANDUIT™ recommends use with other PANDUIT™ Category 6 PLUS components. Compatible with MINI-COM™ Modular Patch Panels, Faceplates and Surface Mount Boxes

Component Labels for MINI-COM™ TX6™ PLUS Jack Modules



Suggested Label Solutions for TIA/EIA-606-A Compliance		
Module Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
All TX6™ PLUS Modules	C138X019FJJ	C138X019FJC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com



MINI-COM™ TX6™ PLUS Shielded Jack Module

- Exceeds TIA/EIA-568-B.2-1 Category 6 and ISO11801 2nd Edition Class E standard
- Each jack is 100% tested to ensure NEXT and return loss performance and is individually serialised for traceability
- Utilises patent-pending enhanced GIGA-TX™ Technology for jack terminations which optimises performance by maintaining cable pair geometry and eliminating conductor untwist
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilising a smooth forward motion without impact on critical internal components for maximum reliability
- Can be re-terminated a minimum of 10 times
- Off White termination cap designates Category 6 performance and provides a positive strain relief, helps control cable bend radius and securely retains wires
- Terminates 4 pair, 22 – 24 AWG, 100 ohm, solid or stranded shielded twisted pair cable
- Termination cap is colour coded for T568A and T568B wiring schemes
- Integral shield with optional 4.75mm grounding tab provides conductive path for grounding
- Accepts 6 and 8 position modular plugs without damage
- Can be clearly identified with optional labels and icons



Part Number	Part Description	No. of Module Spaces	Std. Pkg. Qty.	Std. Ctn. Qty.
CJS688TG	Category 6, 8 position, 8 wire universal shielded module with integral shield.	1	1	50

Termination tool available on page 30.

Shield grounding requires proper installation of shielded jack module and the use of shielded patch cords and cable.

To ensure optimal performance, PANDUIT™ recommends use with other PANDUIT™ Category 6 PLUS components. Compatible with MINI-COM™ Modular Patch Panels, Faceplates and Surface Mount Boxes.

NEW!   **MINI-COM™ TX5e™ Jack Module**

- Exceeds TIA/EIA-568-B.2 Category 5e and ISO11801 2nd Edition Class D standards
- Utilises patent-pending enhanced GIGA-TX™ Technology for jack terminations which optimises performance by maintaining cable pair geometry and eliminating conductor untwist
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilising a smooth forward motion without impact on critical internal components for maximum reliability
- Can be re-terminated a minimum of 10 times
- Red termination cap designates Category 5e performance and provides a positive strain relief, helps control cable bend radius and securely retains wires
- Terminates 4 pair, 22 – 24 AWG, 100 ohm, solid or stranded twisted pair cable
- Termination cap is colour 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



Part Number	Part Description	No. of Module Spaces	Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CJ5E88TGIW	Category 5e, 8 position, 8 wire universal module.	1	Off White	1	50

‡ For other colours replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Grey), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow) or VL (Violet).
Termination tool available on page 30.
Compatible with MINI-COM™ Modular Patch Panels, Faceplates and Surface Mount boxes.

NEW!   **MINI-COM™ TX5e™ Shielded Jack Module**

- Exceeds TIA/EIA-568-B.2 Category 5e and ISO11801 2nd Edition Class D standards
- Each jack is 100% tested to ensure NEXT and return loss performance and is individually serialised for traceability
- Utilises patent-pending enhanced GIGA-TX™ Technology for jack terminations which optimises performance by maintaining cable pair geometry and eliminating conductor untwist
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilising a smooth forward motion without impact on critical internal components for maximum reliability
- Can be re-terminated a minimum of 10 times
- Red termination cap designates Category 5e performance and provides a positive strain relief, helps control cable bend radius and securely retains wires
- Terminates 4 pair, 22 – 24 AWG, 100 ohm, solid or stranded shielded twisted pair cable
- Termination cap is colour coded for T568A and T568B wiring schemes
- Integral shield with optional 4.75mm grounding tab provides conductive path for grounding
- Accepts 6 and 8 position modular plugs without damage
- Can be clearly identified with optional labels and icons



Part Number	Part Description	No. of Module Spaces	Std. Pkg. Qty.	Std. Ctn. Qty.
CJS5E88TG	Category 5e, 8 position, 8 wire shielded module with integral shield.	1	1	50

Termination tool available on page 30.
Shield grounding requires proper installation of shielded jack module and the use of shielded patch cords and cable.
Compatible with MINI-COM™ Modular Patch Panels, Faceplates and Surface Mount Boxes.

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

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Module Part Number	Label for	PANTHER™ LS8 Hand-Held Therman Printer
All TX5e Modules	C138X019FJJ	C138X019FJC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 end www.panduit.com

NEW! INDUSTRIALNET™ TX6™ Connectors

- IP67 sealed Industrial Ethernet Connectors
- Meets TIA/EIA-568-B.2 standard and ISO 11801 2nd Edition, Category 6 standards
- Utilises PANDUIT™ patented GIGA-TX™ termination technique for consistent, reliable terminations
- Bulkhead anti-rotation washer eliminates the potential for module rotation
- Gasket and seal made of inert, chemically resistant material
- Connector components are made of high temperature rated material
- Tethered caps maintain IP67 seal during unmated connection
- Meets the specifications of the TIA and Open DeviceNet Vendor Association (ODVA) joint draft for Sealed Ethernet/IP RJ45 connectors
- Compatible with leading switch manufacturers' equipment
- Jack module terminates 4-pair 24 to 22 AWG solid twisted pair cable
- Plug terminated 24 gauge stranded or solid conductor with maximum conductor insulation diameter of 1mm
- UTP only



IAECJ688TG

EGJT

Part Number	Description	Std. Pkg. Qty	Std. Ctn. Qty.
INDUSTRIALNET™ TX6™ Jack			
IAECJ688TG	Industrial Bulkhead Jack Category 6 IP67.	1	10
Termination Tool			
EGJT	Terminates Enhanced GIGA-TX™ style jack.	1	50

INDUSTRIALNET™ TX5e™ Connectors

- IP67 sealed Industrial Ethernet Connectors
- Exceeds TIA/EIA-568-B.2 standard and ISO 11801 2nd Edition, Category 5e standards
- Shielded and unshielded versions available
- Utilises PANDUIT™ patented GIGA-TX™ termination technique for consistent, reliable terminations
- Bulkhead anti-rotation washer eliminates the potential for module rotation
- Gasket and seal made of inert, chemically resistant material
- Connector components are made of high temperature rated material
- Tethered caps maintain IP67 seal during unmated connection
- Meets the specifications of the TIA and Open DeviceNet Vendor Association (ODVA) joint draft for Sealed Ethernet/IP RJ45 connectors
- Compatible with leading switch manufacturers' equipment
- Jack module terminates 4-pair 24 to 22 AWG solid twisted pair cable
- Plug terminated 24 gauge stranded or solid conductor with maximum conductor insulation diameter of 1mm



MPI588T

CJIS5E88T

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
INDUSTRIALNET™ TX5e™ Jack			
CJIS5E88T	Category 5e, 8 position, 8 wire industrial connector with protective cover.	1	10
INDUSTRIALNET™ TX5e™ Plug			
MPI588T	Category 5e industrial plug with protective cover.	1	10
INDUSTRIALNET™ TX5e™ Shielded Jack			
CJSI5E88T	Category 5e, 8 position, 8 wire shielded industrial connector with protective cover.	1	10
INDUSTRIALNET™ TX5e™ Shielded Plug			
MPSI588T	Category 5e shielded industrial plug with protective cover.	1	10
Termination Tool			
CGJT	Terminates GIGA-TX™ style jack modules.	1	50

INDUSTRIALNET™ TX5e™ Patch cords



IUTPCH*BL



IUTPCHNC*BL

Part Number	Part Description	Length*	Std. Pkg. Qty.	Std. Ctn. Qty.
IUTPCH3BL	Category 5e UTP Patch Cord with INDUSTRIALNET™ TX5e™ Modular Plugs on both ends — with tethered caps.	3 ft.	1	10
IUTPCHNC3BL	Category 5e UTP Patch Cord with INDUSTRIALNET™ TX5e™ Modular Plugs on both ends — without tethered caps.**	3 ft.	1	10
ISTPCH1MBL	Category 5e STP Patch Cord with INDUSTRIALNET™ TX5e™ Modular Plugs on both ends — with tethered caps.	1M	1	10
ISTPCHNC1MBL	Category 5e STP Patch Cord with INDUSTRIALNET™ TX5e™ Modular Plugs on both ends — without tethered caps.**	1M	1	10

*Additional lengths: Patch cords are available in 3, 5, 7, 10, 15 and 20 foot lengths. To order lengths other than 3 feet, substitute the 3 in the part number (IUTPCH3BL) with the desired length (IUTPCH5BL for 5 foot length). Shielded patch cords are available in 1, 2, 3 and 5 metre lengths. To order lengths other than 1 metre, substitute the 1 in the part number (ISTPCH1MBL) with the desired length (ISTPCH3MBL for 3 metre length). Contact Customer Service for additional lengths. See back cover for phone number. **INDUSTRIALNET™ TX5e™ Plug Tethered Cap available separately: Part Number IAEPTC.

Self-Laminating Labels for IUTPCH INDUSTRIALNET™ TX5e™ Patch cords



Suggested Label Solutions for TIA/EIA-606-A Compliance	
Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
S100X150YAJ	S100X150VAC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

INDUSTRIALNET™ TX5e™ LC Fibre Connectors and Patch Cords

- Bulkhead provides IP67 seal when mated to an IP67 plug
- INDUSTRIALNET™ Patch Cords are pre-terminated and provide IP67 seal when mated to IP67 bulkhead jacks
- Patch cords built with 62.5µm, multimode, industrial-grade jacketed fibre cable
- Ideal for daisy-chaining hardened industrial switches between IP66 rated enclosures
- Pigtailed are ideal for routing fibre through conduit
- Patch cords are 100% factory tested for insertion loss
- Insertion loss data recorded for every multimode patch cord providing lifetime traceability to QC number, labelled on each patch cord



IAEF7JMA

IAEF617P-7PM1

Part Number	Part Description	Std. Pkg. Qty.‡	Std. Ctn. Qty.
IAEF7JMA‡	Industrial Ethernet LC Fibre Adapter Bulkhead.	1	10
IAEF617P-7PM1*	Industrial Ethernet Duplex Multimode 62.5µm LC to LC Patch Cord.	1	10
IAEF617P-NM1**	Industrial Ethernet Duplex Multimode 62.5µm LC to Pigtail.	1	10

‡Bulkhead includes duplex multimode LC adapter with phosphor bronze split sleeve.

*Available in 1, 2, 3, 10, and 20 metre lengths.

**Contact Customer Service for pigtail lengths and/or discreet length patch cords with LC fibre interface. See inside back cover for phone number.

INDUSTRIALNET™ Stainless Steel Faceplates



- Accept *INDUSTRIALNET™ TX5e™* Jacks (CJI5E88T or CJSI5E88T)
- Impact resistant for industrial environments
- Rear gasket provides tight seal
- IP67 seal is achieved when used with *INDUSTRIALNET™* connectivity

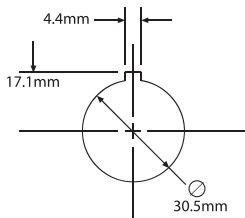
Part Number	Part Description	Std. Pkg. Qty.‡	Std. Ctn. Qty.
CIFP1S	Vertical faceplate accepts one <i>INDUSTRIALNET™ TX5e™</i> Jack.	1	10
CIFP2S-2G	Double gang, vertical faceplate accepts two <i>INDUSTRIALNET™ TX5e™</i> Jacks.	1	10

INDUSTRIALNET™ Ethernet Enclosure

- IP66 rated when used with one of the required gland plate options
- Accommodates populated or unpopulated gland plates (sold separately — see table)
- 35mm DIN rail equipped for mounting of a hardened Industrial Ethernet switch and power supply: Length 375mm
- Power supply included (115/230V to 24V DC) 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 for copper
- Optional fibre routing kit available for the addition of fibre uplinks (sold separately — see table)
- Enclosure latches are lockout capable and will accommodate shackle diameters 7.94mm or smaller; *PANDUIT™* lock part number PSL-3. For complete lockout/tagout solutions and product information, refer to the *PANDUIT Lockout/Tagout Products Catalogue, SA-IDCB06*, at www.panduit.com



IAEIP66



Standard NEMA Knockout

	Part Number	Part Description	Std. Pkg. Qty.‡	Std. Ctn. Qty.
1	IAEIP66	Industrial Ethernet Enclosure. Accepts one gland plate (required to achieve IP66 rating). Supplied with power supply (115/230V to 24V d.c.) and accessories kit. Dimensions 470mm x 470mm x 203mm	1	1
2a	IAECGP	Industrial Ethernet Connector Gland Plate. Fully populated with 14 bulkhead fittings, 14 internal enclosure patchcords (IUEJGY) for 12 downlink ports and two copper uplink ports.	1	1
2b	IAEBGP	Industrial Ethernet Blank Gland Plate. Use knock out tool IEKO30 to customise plate hole placement of part CJI5E88T <i>INDUSTRIALNET™ TX5e™</i> Jack.	1	1
3	IAEFK54	Industrial Ethernet Fan/Filter Kit, 24V d.c. powered. Includes DIN rail mount thermostat. IP54 rated when fan/filter kit is installed.	1	1
4	IAEPCBH	Industrial Ethernet Internal Enclosure Patch Cords/Bulkhead Assembly. RJ45 Plug to <i>INDUSTRIALNET™ TX5e™</i> Jack Module. UTP, solid wire, 381mm in length. Used to connect switch to gland mounted bulkhead.	1	10
5a	IAEFKSC	Industrial Ethernet Enclosure Fibre Uplink Kit. Accommodates two fibre uplinks to switch. Includes all parts to maintain IP67 rating and SC to MT/RJ patchcord to terminate SC uplink to the MT/RJ port on switch.	1	1
5b	IAEFKSP	Industrial Ethernet Enclosure Fibre Uplink Kit. Accommodates two fibre uplinks to switch. Includes all parts to maintain IP67 rating, splice tray and pigtail to terminate MT/RJ port on switch.	1	1
6	IEKO30	Standard NEMA 30.5mm Knock Out Tool required to customize unpopulated gland plate.	1	1



MINI-COM™ MINI-JACK™ Category 3 Jack Modules

- Patented lead frame termination style twists are maintained to within 12mm
- 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
- Terminates 4-pair 24 to 22 AWG 100 ohm solid unshielded twisted pair cable
- Accepts 6 and 8 position modular plugs without damage
- White coloured 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



Part Number	Part Description	No. of Module Spaces	Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CJ88AW	Category 3, 8 position, 8 wire universal module. Termination cap is colour coded for T568A and T568B wiring schemes.	1	Arctic White	1	50
CJ66AW	Category 3, 6 position, 6 wire module.	1	Arctic White	1	50
CJ64AW	Category 3, 6 position, 4 wire module.	1	Arctic White	1	50

‡ For other colours replace suffix AW (Arctic White) with EI (Electric Ivory), WH (White), IG (International Grey) or BL (Black).

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

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Module Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Therman Printer
All Cat 3 Modules	C138X019FJJ	C138X019FJC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

MINI-COM™ 5-Way Binding Post Module

- Allows for easy installation of speaker wires, along with the ability to reconfigure speaker locations with greater ease
- Accepts a variety of termination ends, including bare speaker wire and banana plugs
- Gold plated and large metal contact area facilitates improved signal transmission
- Red or black strip available around collar of binding post clearly designates right or left speaker connection
- Compatible with MINI-COM™ modular patch panels, faceplates and non-shuttered surface mount boxes



CMRPR

Part Number	Part Description	No. of Module Spaces	Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMBPRIW	Module supplied with one 5-way binding post with red strip.	1	Off White	1	10
CMBPBIW	Module supplied with one 5-way binding post with black strip.	1	Off White	1	10

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

MINI-COM™ 3.5mm Stereo Connector Module

- Solder-type termination accepts 22 AWG stereo wire or smaller
- Connector accepts male plug found on typical stereo headsets
- Insulation resistance of the connector exceeds 100m ohms at DC 500V
- Rated for DC 12V, 1A
- Compatible with MINI-COM™ modular patch panels, faceplates and surface mount boxes



CMRPR

Part Number	Part Description	No. of Module Spaces	Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CM35MSSIW	Connector module supplied with one 3.5mm stereo headset connector.	1	Off White	1	10

‡ For other colours, 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



Part Number	Part Description	No. of Module Spaces	Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMBA75AW	Module supplied with industry standard 75 ohm BNC coupler.	1	Arctic White	1	10
CMBAAW	Module supplied with industry standard 50 ohm BNC coupler.	1	Arctic White	1	10

‡ For other colours replace suffix AW (Arctic White) with EI (Electric Ivory), WH (White), IG (International Grey) 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



Part Number	Part Description	No. of Module Spaces	Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMFSRAW	Module supplied with 75 ohm self-terminating F-Type coupler.	1	Arctic White	1	10

‡ For other colours replace suffix AW (Arctic White) with EI (Electric Ivory), WH (White), IG (International Grey) or BL (Black).



MINI-COM™ F-Type Module

- Perfect for use in CATV applications

- Compatible with *MINI-COM™* modular patch panels, faceplates and surface mount boxes



Part Number	Part Description	No. of Module Spaces	Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMFBAAW	Module supplied with 75 ohm industry standard F-Type bulkhead coupler.	1	Arctic White	1	10

‡ For other colours replace suffix AW (Arctic White) with EI (Electric Ivory), WH (White), IG (International Grey) or BL (Black).



MINI-COM™ RCA 110 Punchdown Modules

- Terminate 24 to 22 AWG solid or stranded conductors
- Utilise Category 5 or higher network cable facilitating a common, easy and cost effective cabling installation. Only 2 of the 8 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



CJRR

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

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



MINI-COM™ RCA Pass through Module

- 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	Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMRPAW	Module supplied with one RCA pass-through coupler with red insert	1	Arctic White	1	10
CMRPYAW	Module supplied with one RCA pass-through coupler with white insert.	1	Arctic White	1	10
CMRPWAW	Module supplied with one RCA pass-through coupler with white insert.	1	Arctic White	1	10

‡ For other colours replace suffix AW (Arctic White) with EL (Electric Ivory), WH (White), IG (International Grey) or BL (Black).



MINI-COM™ S-Video Punchdown Module

- Terminates 24 to 22 AWG solid or stranded conductors
- Utilises Category 5 or higher network cable facilitating a common, easy and cost effective cabling installation. Only 4 of the 8 network cable conductors needs 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	Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CJSVIW	Module supplied with one SVHS connector.	1	Off White	1	10

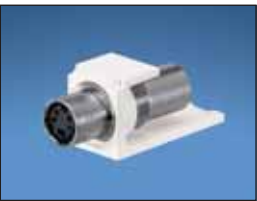
‡ For other colours replace suffix IW (Off White) with EI (Electric Ivory), WH (White), IG (International Grey) or BL (Black)
Optional punchdown termination tool available on page XX.



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	Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMSVCAW	Module insert supplied with one S-Video pass-through coupler.	1	Arctic White	1	10

‡ For other colours replace suffix AW (Arctic White) with EI (Electric Ivory), WH (White), IG (International Grey) 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

- Compatible with select *MINI-COM™* modular patch panels, faceplates and surface mount boxes



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

‡ For other colours replace suffix AW (Arctic White) with EI (Electric Ivory), WH (White), IG (International Grey) or BL (Black).

MINI-COM™ LC Sr./Jr. Fibre Optic Adapter Modules

- TIA/EIA-604 FOCIS-10 compatible adapters
- Exceed TIA/EIA-568-B.3 requirements
- Small form factor (SFF) duplex adapter design fits into single module space
- Compatible with *MINI-COM™* products for complete modularity
- Sr./Jr. (Senior/Junior) adapter modules are designed to accept FOCIS-10 compatible senior LC connectors at either end and FOCIS-10 junior LC connectors at the inside end for inside the wall applications
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are required for singlemode applications
- Every adapter is laser marked with Q.C. number to assure 100% traceability
- *MINI-COM™* LC Duplex Adapter Modules are commonly used with *MINI-COM™* Faceplates and Surface Mount Boxes
- LC Simplex and Duplex Adapters are also available separately on page 98, and in patch panels or fibre adapter panels to provide a complete LC system solution



CMDJLC



CMDJAQLC



CMDJLCZ

NEW!

Part Number	Part Description	No. of Module Spaces	Module Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
LC Sr./Jr. Multimode Fibre Optic Adapter Modules (Electric Ivory adapters)					
CMDJLCEI	Module supplied with one LC Sr./Jr. SFF duplex multimode fibre optic adapter (EI) with phosphor bronze split sleeves.	1	Electric Ivory	1	10
LC Sr./Jr. 10GIG™ Multimode Fibre Optic Adapter Modules (Aqua adapters)					
CMDJAQLCBL	Module supplied with one LC Sr./Jr. 10GIG™ SFF duplex multimode fibre optic adapter (AQ) with phosphor bronze split sleeves.	1	Black	1	10
CMDJAQLCZBL	Module supplied with one LC Sr./Jr. 10GIG™ SFF duplex multimode fibre optic adapter (AQ) with zirconia ceramic split sleeves.	1	Black	1	10
LC Sr./Jr. Singlemode Fibre Optic Adapter Modules (Blue adapters)					
CMDJLCZBU	Module supplied with one LC Sr./Jr. SFF duplex singlemode fibre optic adapter (BU) with zirconia ceramic split sleeves.	1	Blue	1	10

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

MINI-COM™ MT-RJ Fibre 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 Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMMJEI	MT-RJ multimode duplex fibre optic adapter module.	1	Electric Ivory	1	10

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

MINI-COM™ ST Fibre 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 required for singlemode applications
- *MINI-COM™* ST Simplex Adapter Modules are commonly used with *MINI-COM™* Patch Panels
- ST Simplex Adapters are also available in patch panels or fibre adapter panels to provide a complete ST system solution



CMSTZ

Part Number	Part Description	No. of Module Spaces	Module Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
ST Multimode Fibre Optic Adapter Modules					
CMSTEI	Module supplied with one ST multimode fibre optic adapter with phosphor bronze split sleeve.	1	Electric Ivory	1	10
ST Singlemode Fibre Optic Adapter Modules					
CMSTZBU	Module supplied with one ST singlemode fibre optic adapter with zirconia ceramic split sleeve.	1	Blue	1	10

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

MINI-COM™ FC Fibre 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 required for 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 fibre adapter panels to provide a complete FC system solution



CMFC

Part Number	Part Description	No. of Module Spaces	Module Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
FC Multimode Fibre Optic Adapter Modules					
CMFCEI	Module supplied with one FC multimode fibre optic adapter with phosphor bronze split sleeve.	1	Electric Ivory	1	10
FC Singlemode Fibre Optic Adapter Modules					
CMFCZBU	Module supplied with one FC singlemode fibre optic adapter with zirconia ceramic split sleeve.	1	Blue	1	10

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

 **MINI-COM™ Blank Module**

- Seals off openings in outlet to prevent tampering
- Compatible with *MINI-COM™* Modular Patch Panels,

Faceplates and Surface Mount Boxes



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

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

Module Termination Tools



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
EGJT	Terminates Enhanced <i>GIGA-TX™</i> style jack.	1	50
CGJT	Terminates <i>GIGA-TX™</i> Style Jack Modules.	1	50
CJT-X	Terminates <i>MINI-COM™ MINI-JACK™</i> Jack Modules.	10	50
CWST	Copper wire snipping tool, cuts conductors flush for improved performance.	1	—
CJUST	Adjustable, single handed cable jacket stripping tool, strips outer jacket of 4-pair UTP and ScTP cable.	1	—
AVPDB	Audio/Video Punchdown Base used to assist in terminating <i>MINI-COM™</i> S-Video and RCA punchdown modules.	1	50

WORK AREA OUTLET SOLUTIONS

The *PANDUIT™* Network Connectivity Group offers the market's most complete selection of communications outlets as part of the *PAN-NET™* Network System offering. Count on *PANDUIT* to streamline and support your entire infrastructure.



- Completely modular, accepting all *MINI-COM™* Modules for copper and fibre applications
- Superior design provides lower profile, higher density outlet products, creating a cost effective solution for easy moves, adds and changes
- Outlet solutions consist of a variety of faceplate styles and sizes

Work Area Outlet products provide a broad range of solutions that are easily installed and offer absolute modularity. All products provide an aesthetically pleasing solution that will compliment all types of work areas (office, schools, factories, etc.).

 **MINI-COM™ UK Faceplates**

UK Sloped Shuttered Faceplate Kits



CFPUKS2S



CFPUKS4S-2G

- Individual modules snap in and out of provided insert
- Single or double gang configurations
- Excellent for copper and fibre applications
- Shutters protect modules when not in use

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
2 Module Space, U.K. 86 x 86mm Single Gang Faceplate Kit				
CFPUKS2SAW	86 x 86mm single gang bezel and one 1/2 size sloped shuttered module insert. Depth to rear of modules: 18.0mm	Arctic White	1	10
CFPUKS2SIW		Off White	1	10
CFPUKS2SWH		White	1	10
4 Module Space, U.K. 86 x 146mm Double Gang Faceplate Kit				
CFPUKS4SAW-2G	86 x 146mm double gang bezel and two 1/2 size sloped shuttered module insert. Depth to rear of modules: 18.0mm	Arctic White	1	10

Supplied with mounting screws, labels and label holder.

MINI-COM™ UK Bezels



CBUK



CBUK-2G

- Individual modules snap in and out
- Module inserts are front releasable
- Single or double gang configurations
- Accept all 1/2 size module inserts

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
U.K. 86 x 86mm Single Gang Bezel				
CBUKAW	86 x 86mm single gang bezel accepts one 1/2 size module insert.	Arctic White	1	10
CBUKIW		Off White	1	10
U.K. 86 x 146mm Double Gang Bezel				
CBUKAW-2G	86 x 146mm double gang bezel accepts two 1/2 size module inserts.	Arctic White	1	10
CBUKIW-2G		Off White	1	10
CBUKWH-2G		White	1	10

Supplied with mounting screws, labels and label holder.

UK Sloped Faceplates



CFPUKS2B



CFPUKS3

- Economical one piece design
- Excellent for copper and fibre applications
- High density, low profile solution
- Minimal depth required behind the faceplate

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
2 Module Space, U.K. 86 x 86mm Single Gang Sloped Faceplate				
CFPUKS2BAW	86 x 86mm single gang faceplate holds up to two MINI-COM™ Connector Modules. Supplied with mounting screws and CMB blank module. Depth to rear of modules: 12.7mm	Arctic White	1	10
CFPUKS2BIW		Off White	1	10
CFPUKS2BWH		White	1	10
3 Module Space, U.K. 86 x 86mm Single Gang Sloped Faceplate				
CFPUKS3AW	86 x 86mm single gang faceplate holds up to three MINI-COM™ Connector Modules. Supplied with mounting screws. Depth to rear of modules: 12.7mm	Arctic White	1	10
CFPUKS3IW		Off White	1	10

UK Outlet Accessories



CM6CAW



CM6CSAW

- Inserts accept all *MINI-COM™* single position modules
- Excellent for copper and fibre applications
- Mounts to standard LJU6C openings with 22.3mm x 36.9mm dimensions

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
1 Module Space, U.K. LJU6C Unshuttered Module				
CM6CAW-X	Unshuttered module snaps into standard UK LJU6C floor box mounting plates, faceplates and patch panels and holds a single <i>MINI-COM™</i> Connector Module. Depth to rear of modules: 29.0 mm	Arctic White	10	50
1 Module Space, U.K. LJU6C Shuttered Module				
CM6CSAW-X	Shuttered module snaps into standard UK LJU6C floor box mounting plates, faceplates and patch panels and holds a single <i>MINI-COM™</i> Connector Module. Depth to rear of modules: 29.0 mm	Arctic White	10	50

25 x 50 Euro-Mode Shuttered Adopter Module



CM6CESAW

- Accepts all *PANDUIT™ MINI-COM™* Modules STP and UTP (Category 5e and Category 6)
- Shutter door keeps connectors free from any dust and dirt
- Suitable for both copper and fibre applications
- Dimensions: 25 x 50mm - Colour: Arctic White (AW)

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
25 x 50 Euro-Mode Shuttered Adopter Module				
CM6CESAW-X	Euro-mode Adopter 25mm x 50mm Accepts all <i>MINI-COM™</i> modules	Arctic White	10	50

++no other colours are available as standard part

MINI-COM™ German Faceplates

German Faceplate and Adapter Kits

- Individual modules snap in and out
- 2 or 3 module space solutions available
- Excellent for fully shielded copper cabling and fibre applications
- Adapter kit fits inside 80 x 80mm standard frame and *PANDUIT* frame (FCFP)
- Front releasable inserts provided



CFPE3



CFPAGF2

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
3 Module Space, German 80 x 80mm Faceplate Kit				
CFPE3AW	80 x 80mm bezel and one 50 x 50mm three module space sloped faceplate. Supplied with mounting screws, metal mounting plate, label and label holder. Depth to rear of modules: 16mm	Arctic White	1	10
CFPE3IW		Off White	1	10
CFPE3PW		Polar White	1	10
2 Module Space, German 50 x 50mm Faceplate Kits				
CFPAGF2AW	50 x 50mm adapter and one 1/2 size flat module insert. Supplied with mounting screws and metal mounting plate. Depth to rear of modules: 32mm	Arctic White	1	10
CFPAGF2IW		Off White	1	10
CFPAGF2PW		Polar White	1	10
CFPAGS2AW	50 x 50mm adapter and one 1/2 size sloped module insert. Supplied with mounting screws and metal mounting plate. Depth to rear of modules: 23.6mm	Arctic White	1	10
CFPAGS2IW		Off White	1	10
CFPAGS2PW		Polar White	1	10
CFPAGS2SAW	50 x 50mm adapter and one 1/2 size sloped shuttered module insert. Supplied with mounting screws and metal mounting plate. Depth to rear of modules: 23.6mm	Arctic White	1	10
CFPAGS2SIW		Off White	1	10
CFPAGS2SPW		Polar White	1	10

German Floor Box Sloped Faceplate



CFPGFB3

- Individual modules snap in and out
- Highest density, 100% modular, floor box faceplate available
- Excellent for fully shielded copper cabling and fibre applications
- One part provides a variety of different configurations with built in score lines to break away plastic as needed
- Can be used with a variety of German floor boxes

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
3 Module Space, German Floor Box Sloped Faceplate				
CFPGFB3BL	Floor box sloped faceplate holds up to three <i>MINI-COM™</i> Connector Modules. Supplied with label and label holder. Depth to rear of modules: 18mm	Black	1	10

German Faceplate for Ackermann GB2 Sub Box



CFPGAS3SBL



CFP6AS9SBL

- Designed to fit into the Ackermann Floor Box 30354-A and 30354-B
- Complete modularity - accepts all *PANDUIT™ MINI-COM™* Modules STP and UTP (category 5e and Category 6)
- A sloped profile help cables to jeep optimum bend radius control for maximum network performance
- Shutters doors located on each port help to maintain contacts clear from dust and dirt
- Available in two different versions, 3, 6 or 9 ports, according to the density required labels and label covers, placed right in direction of the ports, allows clear and durable identification
- Built-in score line instantly convert faceplate from 6 ports to a 3 port density

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
German Faceplate for Ackermann GB2 Sub Box				
CFPGAS3SBL	<i>MINI-COM™</i> 3 position sloped faceplate for use with Ackermann sub box 30354-A	Black	1	10
CFPGAS6SBL	<i>MINI-COM™</i> 6 position sloped faceplate for use with Ackermann sub box 30354-A	Black	1	10
CFP6AS9SBL	<i>MINI-COM™</i> 9 position sloped faceplate for use with Ackermann sub box 3055A+B	Black	1	10

MINI-COM™ German Bezels and Adapters



FCFP



CBAG

- Bezel accepts all 50 x 50mm faceplates and adapters
- Adapter accepts all 1/2 size module inserts
- Adapter allows front access to connectors and cables
- Adapter fits most local 80 x 80mm bezels (contact customer service for specific applications)

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
German 80 x 80mm Bezel				
FCFPAW	80 x 80mm bezel accepts all 50 x 50mm faceplates and adapters shown in this section.	Arctic White	1	10
FCFPIW		Off White	1	10
FCFPPW		Polar White	1	10
German 50 x 50 Adapter				
CBAGAW	50 x 50mm adapter accepts one 1/2 size module insert and mounts into 80 x 80mm bezel. Supplied with mounting screws, metal mounting plate and label holder.	Arctic White	1	10
CBAGIW		Off White	1	10

German Faceplates



CHES3

- Individual modules snap in and out
- 100% modular
- Excellent for fully shielded copper cabling and fibre applications
- Shuttered and unshuttered versions available

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
3 Module Space, German 55 x 55mm Sloped Faceplate				
CHES3AW	55 x 55mm sloped faceplate holds up to three <i>MINI-COM™</i> Connector Modules. Supplied with mounting screws, metal mounting plate, label and label holder. Depth to rear of modules: 26mm	Arctic White	1	10
CHES3IW		Off White	1	10
CHES3PW		Polar White	1	10

MINI-COM™ French Faceplates

MINI-COM™ French Faceplate Kits



CFPFF2



CS2FP



C2FP

- Module inserts are front releasable
- Accept all 1/2 size module inserts
- Excellent for copper and fibre applications
- Can be mounted horizontally or vertically

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
2 Module Space, French 45 x 45mm Faceplate Kits				
CFPFF2AW	45 x 45mm adapter and one 1/2 size flat module insert. Depth to rear of modules: 26mm	Arctic White	1	10
CFPFS1SAW	French adapter 45 x 45. Accepts all <i>MINI-COM™</i> modules	Artic White	1	10
CFPFS2AW	45 x 45mm adapter and one 1/2 size sloped module insert. Depth to rear of modules: 19mm	Arctic White	1	10
CFPFS2SAW	45 x 45mm adapter and one 1/2 size sloped shuttered module insert. Depth to rear of modules: 19mm	Arctic White	1	10

2 Module Space, French 45 x 45mm Faceplate Kit with STP Connectors

CS2FPAW	45 x 45mm adapter with one 1/2 size sloped shuttered insert and two CJS588.	Arctic White	1	10
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2 Module Space, French 45 x 45mm Faceplate Kit with UTP Connectors

C2FPAW	45 x 45mm adapter with one 1/2 sloped shuttered insert and two CJ588.	Arctic White	1	10
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French Adapter









CBF

- Module inserts are front releasable
- Accept all 1/2 size module inserts
- Excellent for copper and fibre applications
- Can be mounted horizontally or vertically

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
French 45 x 45mm Adapter				
CBFAW	45 x 45mm adapter accepts one 1/2 size module insert.	Arctic White	1	10

Other colours available:

Standard Colour:					
 AW	 WH	 IW	 PW	 SG	 BL
Arctic White	White	Int. White	Polar White	Silk Grey	Black
Colour shown is approximate.					
Colours shown are approximate					

 **MINI-COM™ Italian Designer Series Faceplates**

MINI-COM™ Italian Classic Series Faceplates



CFPH2



CFPHS2



CFPHS2



CFPH4

- Compliments modern office workspace
- Individual modules snap in and out

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
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2 Module Space Horizontal Single Gang Faceplate

CFPH2AW	70 x 114mm horizontal faceplate holds up to two <i>MINI-COM™</i> Connector Modules. Supplied with mounting screws. Fixing centre: 83.5mm screws. Depth to rear of Modules: 29mm	Arctic White	1	10
CFPH2BL		Black	1	10
CFPH2IW		Off White	1	10
CFPH2WH		White	1	10

2 Module Space - Horizontal

CFPH4AW	70 x 114mm horizontal faceplate holds up to four <i>MINI-COM™</i> Connector Modules. Supplied with mounting screws. Fixing centre: 83.5mm screws. Depth to rear of Modules: 29mm	Arctic White	1	10
CFPH4BL		Black	1	10
CFPH4IW		Off White	1	10
CFPH4WH		White	1	10

4 Module Space Horizontal Single Gang Faceplate

CFPH4AW	70 x 114mm horizontal faceplate holds up to four <i>MINI-COM™</i> Connector Modules. Supplied with mounting screws. Fixing centre: 83.5mm screws. Depth to rear of Modules: 29mm	Arctic White	1	10
CFPH4BL		Black	1	10
CFPH4IW		Off White	1	10
CFPH4WH		White	1	10

4 Module Space Horizontal with icon slots and label/label cover

CFPHSL4AW	70 x 114mm horizontal faceplate holds up to four <i>MINI-COM™</i> Connector Modules. Supplied with mounting screws. Fixing centre: 83.5mm screws. Depth to rear of Modules: 29mm	Arctic White	1	10
CFPHSL4IW		Black	1	10
CFPHSL4PW		Off White	1	10

Italian Gewiss Adapter



- Individual modules snap in and out
- Same faceplate frame for data outlets as electrical outlets
- Highest density, 100% modular solution

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
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Adapter for GEW.55 Faceplate Frame 70 x 50mm

CGAGY-X	Adapter holds on one <i>MINI-COM™</i> Module in a Gewiss Playbus Series Faceplate.	Grey	10	50
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Italian Vimar Adapter



- Individual modules snap in and out
- Quick and easy installation
- Same faceplate frame for data outlets as electrical outlets
- Adapters are front releasable
- Highest density, 100% modular solution

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
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CVIA1GY-X CVIA1WH-X	Adapter holds on one <i>MINI-COM™</i> Module in a Vimar IDEA Series Faceplate.	Arctic White	10	50
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 **MINI-COM™ Switzerland Faceplate**

Switzerland Faceplate



- Individual modules snap in and out
- Highest density, 100% modular solution of its design
- Excellent for copper and fibre applications
- Releasable from front side

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
3 Module Space, Switzerland 37.5 x 63mm Faceplate				
CFPCH3AW	37.5 x 63mm faceplate holds up to three <i>MINI-COM™</i> Connector Modules. Depth to rear of Modules: 28.6mm	Arctic White	1	10

MINI-COM™ Switzerland Bezel



- Inserts are front releasable
- Accepts all 1/2 size module inserts
- Excellent for copper and fibre applications
- Can be mounted horizontally or vertically
- Fits standard Swiss outlet boxes

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
Switzerland 64mm Diameter Bezel				
CBCHAW	64mm diameter bezel accepts one 1/2 size module insert.	Arctic White	1	10

 **MINI-COM™ Denmark Sloped Faceplates**

Denmark Sloped Faceplate Kits



CFPDS2



CFPDS2S

- Individual modules snap in and out
- Inserts are front releasable
- Sloped design protects cable bend radius
- Excellent for copper and fibre applications
- High strength mounting method

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
2 Module Space, Denmark Unshuttered Faceplate Kit				
CFPDS2SG	Denmark 77.1 x 50.4mm faceplate with one sloped 1/2 size module insert holds up to two Mini-Com Connector Modules. Depth to rear of modules: 17mm	Silk Grey	1	10
CFPDS2WH		White	1	10
2 Module Space, Denmark Shuttered Faceplate Kit				
CFPDS2SSG	Denmark 77.1 x 50.4mm faceplate with one sloped shuttered 1/2 size module insert holds up to two Mini-Com Connector Modules. Depth to rear of modules: 17mm	Silk Grey	1	10
CFPDS2SWH		White	1	10

Denmark adapters for *CLIC'LINE™* and *OPUS66™*



CLIC'LINE™



OPUS66™

- Individual modules snap in and out
- Inserts are front releasable
- Sloped design protects cable bend radius
- Excellent for copper and fibre applications
- High strength mounting method

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
2 Module Space, Denmark Unshuttered Faceplate Kit				
CHLK66S2S	<i>CLIC'LINE™</i> Adapter	EW or NG	1	10
CHLKCLS2S	<i>OPUS66™</i> Adapter	EW or NG	1	10

Adapter for legrand GALEA™ VALENA™ faceplates



CGVA2BL

- Easily mounted on both GALEA™ and VALENA™ faceplates
- Allows for all PANDUIT™ UTP and FTP modules to become part of the network infrastructure

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
CGVA2BL	GALEA™ and VALENA™ Adapter	Arctic White	1	10

Thorsman* Perimeter Trunking Faceplates



CFPTS4

- Design to be used with Thorsman Perimeter Trunking
- Can be clearly identified with label and label cover
- Individual modules snap in and out
- One piece snap on mounting

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
Thorsman Perimeter Trunking Faceplates				
CFPTS4AW	Sloped faceplate holds up to four <i>MINI-COM™</i> Modules. To be used with Thorsman Plastic trunking. Depth to rear of module (copper): 11.43mm	Arctic White	1	10
CFPTS4EW		European White	1	10
CFTSL4AW	Sloped faceplate holds up to four <i>MINI-COM™</i> Modules. To be used with Thorsman Plastic or metal trunking. Depth to rear of module (copper): 11.43mm	Polar White	1	10
CFTSL4EW		European White	1	10

Elko Faceplate – Sweden, Norway, Denmark and Netherlands



CES3AW

- Design to be used with Elko faceplate frame
- Can be clearly identified with label and label cover
- Individual modules snap in and out

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
Elko Faceplate				
CES3AW	Sloped faceplate holds up to four <i>MINI-COM™</i> Modules. To be used with Elko faceplate frame. Includes back plate, label/label cover and screws for mounting.	Arctic White	1	10

  **Module Inserts for Bezels**



CHS2



CHS2S



CHF2



CHS2R



CHF2M

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
2 Module Space, 1/2 Size, Sloped Module Insert				
CHS2AW-X	Sloped module insert accepts up to two <i>MINI-COM</i> ™ Modules and accommodates up to 1/2 of a single gang bezel. Depth to rear of modules: 16.5mm	Arctic White	10	50
CHS2BL-X		Black	10	50
CHS2IW-X		Off White	10	50
CHS2PW-X		Polar White	10	50
CHS2WH-X		White	10	50
2 Module Space, 1/2 Size, Sloped Module Insert with Protective Shutters				
CHS2SAW-X	Sloped module insert with protective shutters accepts up to two <i>MINI-COM</i> ™ Modules and accommodates up to 1/2 of a single gang bezel. Shutters are spring loaded and rotate out of the way for cable connections. Depth to rear modules: 16.5mm	Arctic White	10	50
CHS2SBL-X		Black	10	50
CHS2SIW-X		Off White	10	50
CHS2SPW-X		Polar White	10	50
CHS2SWH-X		White	10	50
2 Module Space, 1/2 Size, Flat Module Insert				
CHF2AW-X	Flat module insert accepts up to two <i>MINI-COM</i> ™ Modules and accommodates up to 1/2 of a single gang bezel. Depth to rear of modules: 25.4mm	Arctic White	10	50
CHF2BL-X		Black	10	50
CHF2IW-X		Off White	10	50
CHF2PW-X		Polar White	10	50
CHF2WH-X		White	10	50
2 Module Space, 1/2 Size, Sloped, Recessed Module Insert				
CHSR2AW-X	Accepts up to two <i>MINI-COM</i> ™ Modules and accommodates up to 1/2 of a single gang bezel. Depth to rear of modules: 28.6mm	Arctic White	10	50
CHSR2BL-X		Black	10	50
CHSR2IW-X		Off White	10	50
CHSR2PW-X		Polar White	10	50
CHSR2WH-X		White	10	50
2 Module Space, 1/3 Size Flat Module Insert				
CHF2MAW-X	Flat insert accepts up to two <i>MINI-COM</i> ™ Modules and accommodates 1/3 of a single gang bezel. Twelve ports maximum in a double gang bezel. Depth to rear of modules: 25.4mm	Arctic White	10	50
CHF2MBL-X		Black	10	50
CHF2MIW-X		Off White	10	50
CHF2MPW-X		Polar White	10	50
CHF2MWH-X		White	10	50

  **Wall Board Adapters**

- 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 83.5mm.	1	10
MWBA-2G	An alternative for double gang in-wall boxes in communication applications. Mounting hole spacing of 83.5mm.	1	10

Adapters supplied with mounting screws.



MINI-COM™ In-Wall Fibre Spool



- 35mm internal bend radius
- Cable entry/exit from rear, top and bottom helps maintain external bend radius
- Stores up to 12 meters of unjacketed fibre cable or 2 meters of jacketed fibre cable
- 93mm depth from rear of faceplate, not for use with in-wall boxes or in shallow walls

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
Two Module In-Wall Fibre Spool				
CFS2AW	Two piece fibre spool for use with most <i>MINI-COM™</i> faceplates, bezels and inserts.	Arctic White	1	10
CFS2BL		Black	1	10
CFS2IW		Off White	1	10
CFS2WH		White	1	10

Standards: TIA/EIA-568-A requires a minimum 1 metre slack and a fibre spool for in-wall installations.



MINI-COM™ Snap-On Modular Furniture Faceplate



CFFP4BL



CFFPA2BL



CFFPL4



MFFPE



CFFPHM4



CFFPEBSL4

- Accept *MINI-COM™* Modules for Copper and Fibre applications
- High density design; accepts up to 4 snap-in *MINI-COM™* Modules

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
4 Module Space Modular Furniture Snap-On Faceplate				
CFFP4BL	Faceplate snaps into knockouts found on modular furniture. Holds four standard connecto modules. Depth to rear of modules: 25mm	Black	1	10
CFFPL4BL	Faceplate snaps into industry standard knockouts found on modular furniture. Accepts up to four <i>MINI-COM™</i> Modules. Supplied with write-on label and label cover.	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
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4 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 <i>MINI-COM™</i> Modules.	Black	1	10
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4 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 <i>MINI-COM™</i> Modules. Supplied with write-on label and label cover and icon slots.	Black	1	10
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Faceplate snaps into "industry standard" opening with panel cutout specified. Consult factory for specific furniture manufacturer's opening sizes for solutions for other sizes.

2 Module Space Angled Modular Furniture Snap-On Faceplate

CFFPA2BL	Furniture snaps into knockouts found on modular furniture. Holds two standard connector modules. Depth to rear modules: 15mm	Black	1	10
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MINI-COM™ Shuttered Surface Mount Boxes

- Accept *MINI-COM*™ Modules for STP and UTP, FJ™ Fibre 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



CBXS1



CBXS2



CBXS3



CBXS4



CBXS6



CBXSD6

NEW!

NEW!

Part Number	Part Description	Colour‡	Used with PAN-WAY™ Raceway	Std. Pkg. Qty.	Std. Ctn. Qty.
CBXS1IW-A	Shuttered surface mount box accepts one <i>MINI-COM</i> ™ Module. .62"H x 1.64"W x 2.47"L (15.75mm x 41.66mm x 62.73mm).	Off White	LD5/LDP5*	1	10
CBXS2IW-A	Shuttered surface mount box accepts two <i>MINI-COM</i> ™ Modules. .94"H x 2.40"W x 2.5"L (23.88mm x 60.96mm x 63.50mm).	Off White	LD5/LDP5*	1	10
CBXS3IW-A	Shuttered surface mount box accepts three <i>MINI-COM</i> ™ Modules. .94"H x 3.62"W x 3.31"L (23.88mm x 92.00mm x 84.00mm).	Off White	LD5/LDP5	1	10
CBXS4IW-A	Shuttered surface mount box accepts four <i>MINI-COM</i> ™ Modules. .94"H x 4.65"W x 3.28"L (23.88mm x 118.11mm x 83.31mm).	Off White	LD3/LDP3 LD5/LDP5	1	10
CBXS6IW-A	Shuttered surface mount box accepts six <i>MINI-COM</i> ™ Modules. .94"H x 6.7"W x 3.28"L (23.88mm x 170.18mm x 83.31mm).	Off White	LD3/LDP3 LD5/LDP5	1	10
CBXSD6IW-A	Deep shuttered surface mount box accepts six <i>MINI-COM</i> ™ 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/LDP5 LD10/LDP10	1	10

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

*Raceway does not enter box.

UL LISTED **SP** **MINI-COM™ Surface Mount Boxes**

- Cable entry from side and rear knockouts and from opening in base
- Accept *MINI-COM™* Modules including Category 5e, Category 6, Fibre Optic and Coax cables found on page 20-21 and pages 25-29
- Surface box screw covers found on page 43 can be used in place of clear label holders on boxes with label/label cover feature
- Mount easily with supplied mounting screws, adhesive tape or optional magnet (CSBM-X)
- Combination label holder/screw cover for custom identification (4 module space and greater not including CBXC4)
- Can be clearly identified with labels found on pages 349 - 356



CBX1



CBXJ2



CBX2



CBXC4



CBX4

NEW!

Part Number	Part Description	Colour‡	Can be used with PANWAY™ Trunking	Std. Pkg. Qty.	Std. Ctn. Qty.
1 Module Space Surface Mount Box					
CFS2AW	Surface mount box holds one <i>MINI-COM™</i> Module. Supplied with adhesive backing. 22.8mm H x 25.5mm W x 47.7mm L	Arctic White	LD3, LDP3, LDS3*	1	10
2 Module Space Surface Mount Box					
CBXJ2AW-A	Surface mount box holds up to two <i>MINI-COM™</i> Modules. Supplied with adhesive backing. 23.1mm H x 45mm W x 62mm L	Arctic White	LD3, LDP3, LD5*, LDP5	1	10
2 Module Space Surface Mount Box					
CBX2AW-A	Surface mount box holds up to two <i>MINI-COM™</i> Modules. Supplied with adhesive backing. 27mm H x 50mm W x 93mm L	Arctic White	LD3, LDP3, LD5, LDP5	1	10
4 Module Space Low Profile Surface Mount Box					
CBXC4AW-A	Surface mount box holds up to four <i>MINI-COM™</i> Modules. Supplied with mounting screws with adhesive backing. 23mm H x 80mm W x 80mm L	Arctic White	LD3, LDP3, LD5, LDP5	1	10
4 Module Space Surface Mount Box					
CBXC4AW-A	Surface mount box holds up to four <i>MINI-COM™</i> Modules. Provides slots that accept cable ties for strain relief. Provides bend radius control. Supplied with mounting screws with adhesive backing. 22.8mm H x 74mm W x 114mm L	Arctic White	LD3, LD5,	1	10

‡ Other colours available. See page 42.

*Trunking does not enter box.

Other colours available:

Standard Colour:		WH		IW		PW		SG		BL	
AW	Arctic White	White	White	Int. White	Int. White	Polar White	Polar White	Silk Grey	Silk Grey	Black	Black
Colour shown is approximate.		Colours shown are approximate									



MINI-COM™ Surface Mount Boxes (Continued)



CBXD6

NEW!



CBXJ2

Part Number	Part Description	Colour‡	Can be used with PANWAY™ Trunking	Std. Pkg. Qty.	Std. Ctn. Qty.
6 Module Space Surface Mount Box					
CBXD6AW-A	Surface mount box holds up to six <i>MINI-COM™</i> Modules. Provides slots that accept cable ties for strain relief. Provides bend radius control. Supplied with mounting screws, adhesive backing and label holder/screw cover. 26.3mm H x 125.7mm W x 96.2mm L	Arctic White	LD3, LD5, LD10	1	10
12 Module Space Surface Mount Box					
CBX12AW-A	Surface mount box holds up to twelve <i>MINI-COM™</i> Modules. Supplied with mounting screws, adhesive backing and label holder/screw cover. 26mm H x 145mm W x 138mm L	Arctic White	LD3, LD10	1	10

‡ Other colours available. See page 42.

*Trunking does not enter box.



MINI-COM™ Multi-Media/Fibre Surface Mount Boxes

- Accepts *MINI-COM™* Modules including Category 5e, Category 6, Fibre Optic cables and Coax cables found on pages 20-21 and 25-29
- Slots accept cable ties for cable management
- Mounts easily with screws or adhesive tape
- Tamper resistant screw for added security
- Unique fibre spool design secures cable in place
- Splicing capacity available
- Built-in fibre spool stores up to 24 meters of buffered fibre optic cable
- Cable entry from side and rear knockouts and from opening in bottom of base
- Surface box screw covers can be used in place of clear label holders
- Fibre Box Expander upgrades CBXF6 to accept twelve connector modules
- Can be clearly identified with labels found on pages 349-356



CBXF6



CBXF12



CBXF6KIT

Part Number	Part Description	Colour‡	Can be used with PANWAY™ Trunking	Std. Pkg. Qty.	Std. Ctn. Qty.
6 Module Multi-Media/Fibre Boxes					
CBXF6AW-A	Surface mount box holds up to six <i>MINI-COM™</i> Modules. 25mm H x 120mm W x 170mm L	Arctic White	LD3, LD5,	1	10
12 Module Space Multi-Media/Fibre Boxes					
CBXF12AW-A	Surface mount box holds up to twelve <i>MINI-COM™</i> Modules. 46mm H x 120mm W x 170mm L	Arctic White	LD3, LD5, LD10	1	10
Fibre Box Expander					
CBXF6KITAW	Includes bridge, deep cover and tamper resistant screw. Used to convert CBXF6 into CBXF12	Arctic White	LD3, LD5, LD10	1	10

‡ Other colours available. See page 42.

*Trunking does not enter box.

NOTES

PANZONE™ ZONE CABLING SOLUTIONS

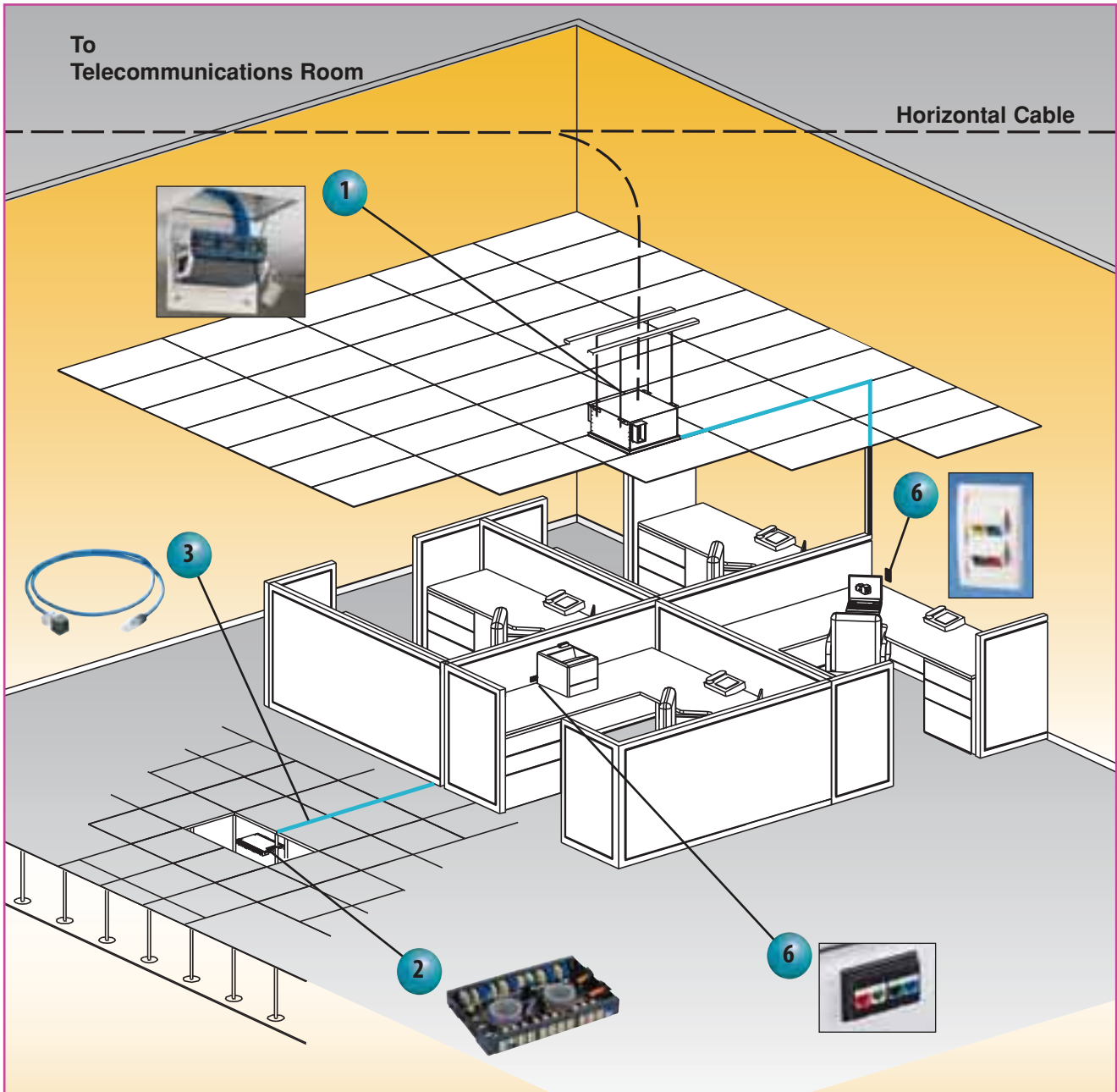
PANDUIT™ provides a complete line of Zone Cabling products for workspace environments, including open office architecture and industrial applications. Each zone cabling product serves as a high capacity main cable distribution point for a particular zone, feeding workstation outlets with short cable runs for voice, data and video connections.



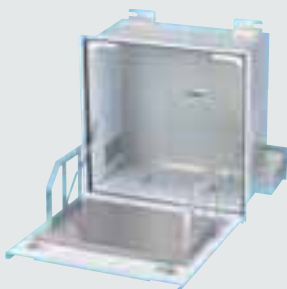
- Provide flexibility to reconfigure offices to meet frequently changing organisational requirements
- Provide the ability to make moves, adds and changes quickly and easily
- Reduce network downtime when changes are required

Active and Passive Zone Cabling provides the potential to reduce long term maintenance costs by facilitating easy moves, adds and changes. Active Zone Cabling, where network electronics are deployed in a zone, can solve communications room congestion problems and provide the optimum hardware solution by extending the backbone. PANDUIT Zone Cabling products accommodate multi-media solutions and can be used in floor, ceiling and wall mount applications.

Zone Cabling Roadmap



1 **PANZONE™ In-Ceiling Zone Cabling Boxes**
(page 49-50)

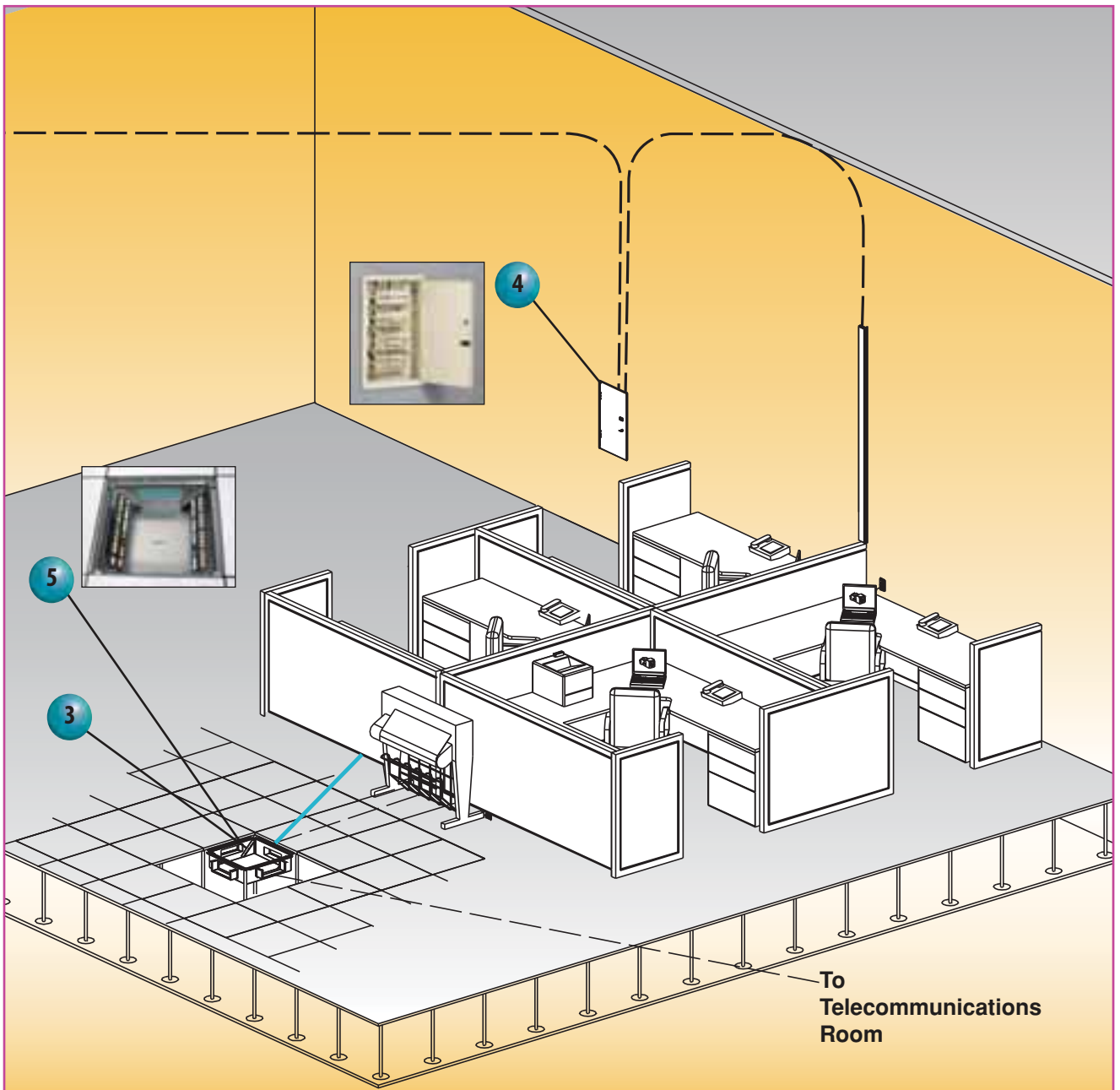


2 **Consolidation Point Enclosures**
(page 48)



3 **PANZONE™ Cable Assemblies**
(page 51)





4

PANZONE™
Enclosure & Doors
(page 50)



5

PANZONE™ In-floor
Zone Cabling Boxes
(page 49)



5

MINI-COM™ Faceplates (pages 32-37) & Surface Mount Boxes (pages 42-43)





Punchdown Consolidation Point Enclosure

- Includes *TAK-TY™* Hook & Loop Cable Ties, grommets and a choice of punchdown bases
- UL2043 approved for use in air-handling spaces
- Follows TIA/EIA-568-B standard
- Mounts to wall above and below ceiling



WMCPEPBL

Part Number	Part Description	Std. Pkg. Qty.
WMCPEPBL	Fully assembled aluminium enclosure, which includes 24 port/4-pair standard density <i>GIGA-PUNCH™</i> Category 6 base and <i>TAK-TY™</i> Hook & Loop Cable Ties. Dimensions: 86.36mmH x 240.54mm W x 335.79mm L	1
WMCPEPBL	Fully assembled aluminum enclosure, which includes 110 pair <i>PAN-PUNCH™</i> base and <i>TAK-TY™</i> Hook & Loop Cable Ties. Dimensions: 87.38mm H x 240.54mm W x 335.79mm L	1
WMCPEBL	Aluminium enclosure with <i>TAK-TY™</i> Hook & Loop Cable Ties. Dimensions: 87.38mm H x 240.54mm W x 335.79mm L	1



Consolidation Point Boxes and Fibre Conversion Kit

- UL2043 approved for use in air-handling spaces
- Supports *MINI-COM™* Modules
- Supplied with cable management accessories
- Suitable for wall mount and under floor applications
- Optional fibre conversion kit available for use in both boxes



CUFMB24BL



CUFB48BL



CUFF-KIT

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CUFMB24BL	24 Port Aluminium Under Floor Consolidation Point Box includes pre-printed numbered labels with writable surface on back when pre-numbered labels are not applicable. Dimensions: 42.92mm H x 275.59mm W x 271.02mm L	1	—
CUFB48BL	48 Port Under Floor Consolidation Point Box made of 16 gauge rugged steel for long term durability. Dimensions: 41.40mm H x 254.0mm W x 377.95mm L	1	—
CUFF-KIT	Optional fibre conversion kit to be used with CUFB48BL and CUFMB24BL. Kit includes: 4 <i>PANDUIT™ PAN-TY™</i> Cable Ties, 4 wire saddles, 2 adhesive fibre spools, 2 support brackets to hold fibre cable, 1 grounding lug, 1 laser warning label, 1 fibre warning label and 2 rubber grommets.	1	10



PANZONE™ In-floor Zone Cabling Boxes

- Accepts all flat *MINI-COM™* Patch Panels
- UL2043 approved for use in air-handling spaces
- Work with standard 610mm x 610mm raised floor panels
- Meets NEC standards
- Plenum rated foam kit and mounting bracket included



CIFZC11

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.
CIFZC4	Fully assembled In-floor Zone Cabling Box which requires 152.4mm minimum access floor. Accepts up to 4 RU of 19" standard patch panels. Dimensions: 609.60mm L x 609.60mm W x 101.60mm D	4	1
CIFZC8	Fully assembled In-floor Zone Cabling Box which requires 203.2mm minimum access floor. Accepts up to 8 RU of 19" standard patch panels. Dimensions: 609.60mm L x 609.60mm W x 152.40mm D	8	1
CIFZC11	Fully assembled In-floor Zone Cabling Box which requires 355.6mm minimum access floor. Accepts up to 11 RU of 19" standard patch panels. Dimensions: 609.60mm L x 609.60mm W x 304.80mm D	11	1

[^] One rack space = 44.45mm



PANZONE™ In-ceiling Zone Cabling Box

- UL2043 approved for use in air-handling spaces
- Meets NEC standards
- Plenum rated foam kit included
- Optional bracket (CICZCBRKT) allows zone cabling box to accept all *MINI-COM™* patch panels



CICZC2X2



CICZCBRKT

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
CICZC2X2	Fully assembled In-ceiling Zone Cabling Box. Accepts up to six 100 pair punchdown bases. With optional brackets (CICZCBRKT) this box also accepts up to 9 RU of 482.6mm standard patch panels. Mounts in 2x2, 2x4, and 2x6 ceiling panels. Dimensions: 609.60mm L x 609.60mm W x 304.80mm D	—	1	—
CICZCBRKT	In-ceiling zone cabling bracket designed to accept up to 9 RU of 482.6mm standard patch panels and mounts inside an in-ceiling zone cabling box (CICZC2X2), sold separately.	9	1	10

[^] One rack space = 44.45mm

PANZONE™ Active In-ceiling Zone Cabling Box

- Designed to accept up to 3 RU of active electronics as deep as 393.7mm and up to 6 RU of 482.6mm standard passive connectivity
- AC power ready (receptacle not included)
- UL2043 approved for use in air-handling spaces
- Meets NEC standards
- 11kg door weight capacity
- Includes doorplate, equipment mounting bracket, plenum rated foam kit and 9 CFM fan (fan provides in excess of 100 air changes per hour)



Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.
CICZC2X2A	Fully assembled In-ceiling Zone Cabling Box. Mounts in 2x2, 2x4 and 2x6 ceiling panels. Dimensions: 596.90mm L x 596.90mm W x 308.10mm D	9	1

[^] One rack space = 44.45mm



PANZONE™ Active Wall Mount Enclosure

- Includes lockable door for tamper resistance; optional cooling fan and lock set are available
- Door can be assembled to hinge on either the right or left side, which allows easy access when the enclosure is mounted in a corner
- Accommodates 3RU of 482.6mm standard patch panels and 3RU of active equipment (Maximum allowable depth of active equipment is 444.5mm)
- Designed to accommodate Cisco, APC hardware and select cooling fans
- For fibre backbone applications, use *MINI-COM™* Surface Mount Box (CBXF6) for fibre demarcation
- Includes low penetration air vents on both sides to keep falling water and debris out of the enclosure while allowing air to circulate
- Raceway knockouts on all sides accommodate *PANDUIT™* T-70 and larger Raceways
- Includes grommet edging for raceway knockouts and *TAK-TY™* Hook & Loop cable ties for cable management
- Conduit can be used for cables entering and exiting the box; ten knockouts for cable access (44.45mm or 50.8mm conduit), and six knockouts for power applications (12.7mm or 19.05mm conduit)
- Conduit knockouts also allow power to be run to a standard electrical box inside the enclosure, which is required for active equipment applications



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PZAEWM3	<i>PANZONE™</i> Active Wall Mount Enclosure can be mounted directly to a wall. Dimensions: (977.9mm x 709.2mm x 218.7mm).	1	0
PZAEFAN	Optional cooling fan for applications where additional cooling is required.	1	0
PZAELOCK	Optional keyed lock set; includes 2 locks and 2 keys for each lock	1	10



PANZONE™ Enclosures

- Can be directly mounted to a wall, recessed into a wall or used in under floor applications
- Include grommet edging, labels and *TAK-TY™* Hook & Loop Cable Ties
- Option of flat cover or hinged lockable door (each sold separately)
- 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 482.60mm patch panels
- Conduit knockouts of 44.45mm - 50.8mm are available on top and bottom, Side conduit knockouts of 38mm are available on the sides



PZB4 with PZB4-HC

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PANZONE™ Enclosure			
PZB4	Enclosure can be mounted directly to wall, recessed into a wall or used in under floor applications. Hinged door or flat cover sold separately. Dimensions: 635.00mm H x 368.30mm W x 118.11mm D	1	—
PZB4-HC	Hinged door to be used with <i>PANZONE™</i> Enclosure (PZB4) when mounting to a wall or under floor. Reversible door can hinge from either side and includes lock with tab release.	1	—
PZB4-FC	Flat cover to be used with <i>PANZONE™</i> Enclosure (PZB4) when mounting to wall or under floor. Cover includes four screw slots and screws.	1	—
Optional PANZONE™ Bracket			
PZBPPB	<i>PANZONE™</i> Patch Panel Bracket accommodates up to 2RU of standard 482.6mm patch panels. Includes one pair of brackets.	1	10

CABLEACCESS™ Wall Mount Cabinet

- Innovative cable routing allows easy cable installation in to the cabinet without threading cables through an opening.
- Multiple Access Points provide easy access to inside of cabinet during cable installation and maintenance
- Slack manager allows the standardisation of a single patch cord length while keeping the cabinet organised and manageable.
- Robust design and locking access doors provide security protection
- Vented design and optional fan provides climate control for various switches and power supplies
- Adjustable rails mount at 25.4mm increments with rack space identification for easy location of rack spaces
- Meets GR-1089 Grounding and Bonding specification when used with grounding kit



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
NC24S	CABLE ACCESS™ with solid door	–	–
NC24W	CABLE ACCESS™ with window door	–	–
NCFK	CABLE ACCESS™ fan kit	–	–
NCGK	CABLE ACCESS™ grounding kit	–	–
NCSD	CABLE ACCESS™ solid duct	–	–
NCSM12	12 RU slack manager	–	–

PANZONE™ Wireless Access Point Enclosure

- Lockable enclosure protects against tampering and theft and reduces TCO
- WAP mounting in base of enclosure eliminates movement of active equipment when door is opened for improved network reliability
- Attached door with knockouts allows multiple antenna configurations to support IEEE 802.11a, b and g standards and reduces installation time
- Included connectivity accessory kit provides 2-position surface mount box, 5e jack, 5e patch cord and grounding cable to simplify installation and reduce inventory



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PZWIFIE	Wall Mountable Wireless Access Point Enclosure	1	–
PZWIFCB	Converts PZWIFIE to Ceiling Mountable Enclosure	1	–



PANZONE™ Cable Assemblies

- PANZONE™ cable Category 6 Solid UTP and SFTP Assemblies for use in Zone Cabling applications
- Available in plug to jack module and plug to plug configurations
- Available in PVC and LSZH jacket material
- T568B wiring



UPBU



UJPBU

Part Number	Part Description	Length	Cable Colour	Std. Pkg. Qty.
		M		
Plug to Plug UTP Cable Assemblies				
PVC				
UPBU5M	PVC Category 6 UTP Solid Cable with TX6 Plus Modular plugs on each end.	5	Blue	1
UPBU7M		7	Blue	1
UPBU8M		8	Blue	1
UPBU10M		10	Blue	1
UPBU30M		30	Blue	1
UPBU40M		40	Blue	1



PANZONE™ Cable Assemblies

Part Number	Part Description	Length	Cable Colour	Std. Pkg. Qty.
		M		
PVC				
UPBU20	Non-Plenum Category 6 UTP Solid Cable with TX6™ PLUS Modular Plug on each end.	6.1	Blue	1
UPBU50		15.2	Blue	1
UPBU40M		40	Blue	1
UPBU100		30.5	Blue	1

Plug to Plug UTP Cable Assemblies

LSZH

UPLBU5M	LSZH Category 6 UTP Solid Cable with TX6 Plus Modular plugs on each end	5	Blue	1
UPLBU7M		7	Blue	1
UPLBU8M		8	Blue	1
UPLBU10M		10	Blue	1
UPLBU30M		30	Blue	1
UPLBU40M		40	Blue	1

Part Number	Part Description	Length	Cable Colour	Std. Pkg. Qty.
		M		

Plug to Jack UTP Cable Assemblies

PVC

UJBU3MBL	PVC Category 6 UTP Solid Cable with TX6™ PLUS Modular Plug on one end and a black PANDUIT™ MINI-COM™ TX6™ PLUS Jack on the other end	3	Blue	1
UJBU5MBL		5	Blue	1
UJBU7MBL		7	Blue	1
UJBU10MBL		10	Blue	1
UJBU15MBL		15	Blue	1
UJBU20MBL		20	Blue	1

Plug to Jack UTP Cable Assemblies

LSZH

UJLBU3MBL	LSZH Category 6 UTP Solid Cable with TX6™ PLUS Modular plug on one end and a black MINI-COM™ TX6™ PLUS Jack on the other end	3	Blue	1
UJLBU5MBL		5	Blue	1
UJLBU7MBL		7	Blue	1
UJLBU10MBL		10	Blue	1
UJLBU15MBL		15	Blue	1
UJLBU20MBL		20	Blue	1

Part Number	Part Description	Length	Cable Colour	Std. Pkg. Qty.
		M		

Plug to Plug SFTP Stranded Cable Assemblies

LSZH

STPCTG3MBBL	LSZH Category 6 SFTP Stranded Cable with TX6™ PLUS Modular plugs with black boots on each end	3	Grey	1
STPCTG5MBBL		5	Grey	1
STPCTG7MBBL		7	Grey	1
STPCTG8MBBL		8	Grey	1
STPCTG10MBBL		10	Grey	1
STPCTG30MBBL		30	Grey	1
STPCTG40MBBL		40	Grey	1

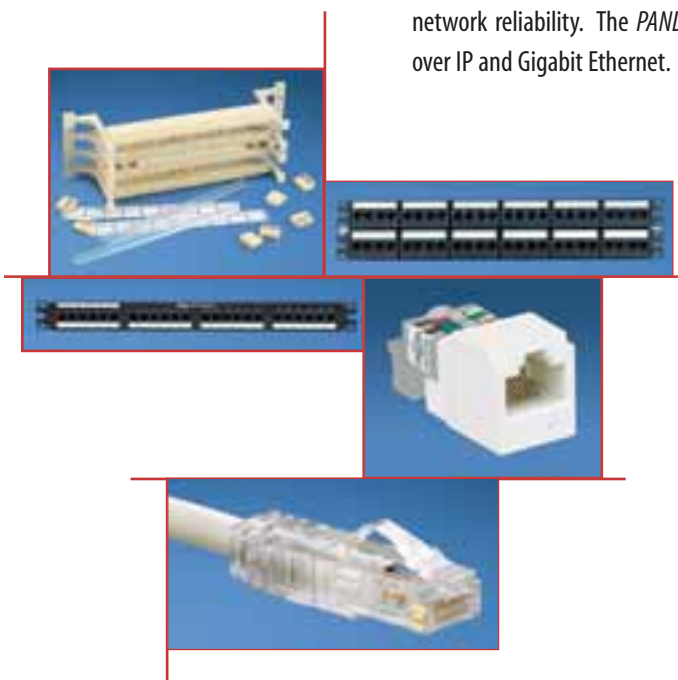
Plug to Jack SFTP Stranded Cable Assemblies

LSZH

F6JBP5ZIB3MBL	LSZH Category 6 SFTP Stranded Cable 26AWG with TX6™ PLUS Modular plugs on one end a black MINI-COM™ TX6™ PLUS Jack on the other end	3	Grey	1
F6JBP5ZIB5MBL		5	Grey	1
F6JBP5ZIB7MBL		7	Grey	1
F6JBP5ZIB8MBL		8	Grey	1
F6JBP5ZIB10MBL		10	Grey	1
F6JBP5ZIB20MBL		20	Grey	1
F6JBP5ZIB30MBL		30	Grey	1

PATCH PANELS, COPPER PATCH CORDS, PUNCHDOWN AND CABLE

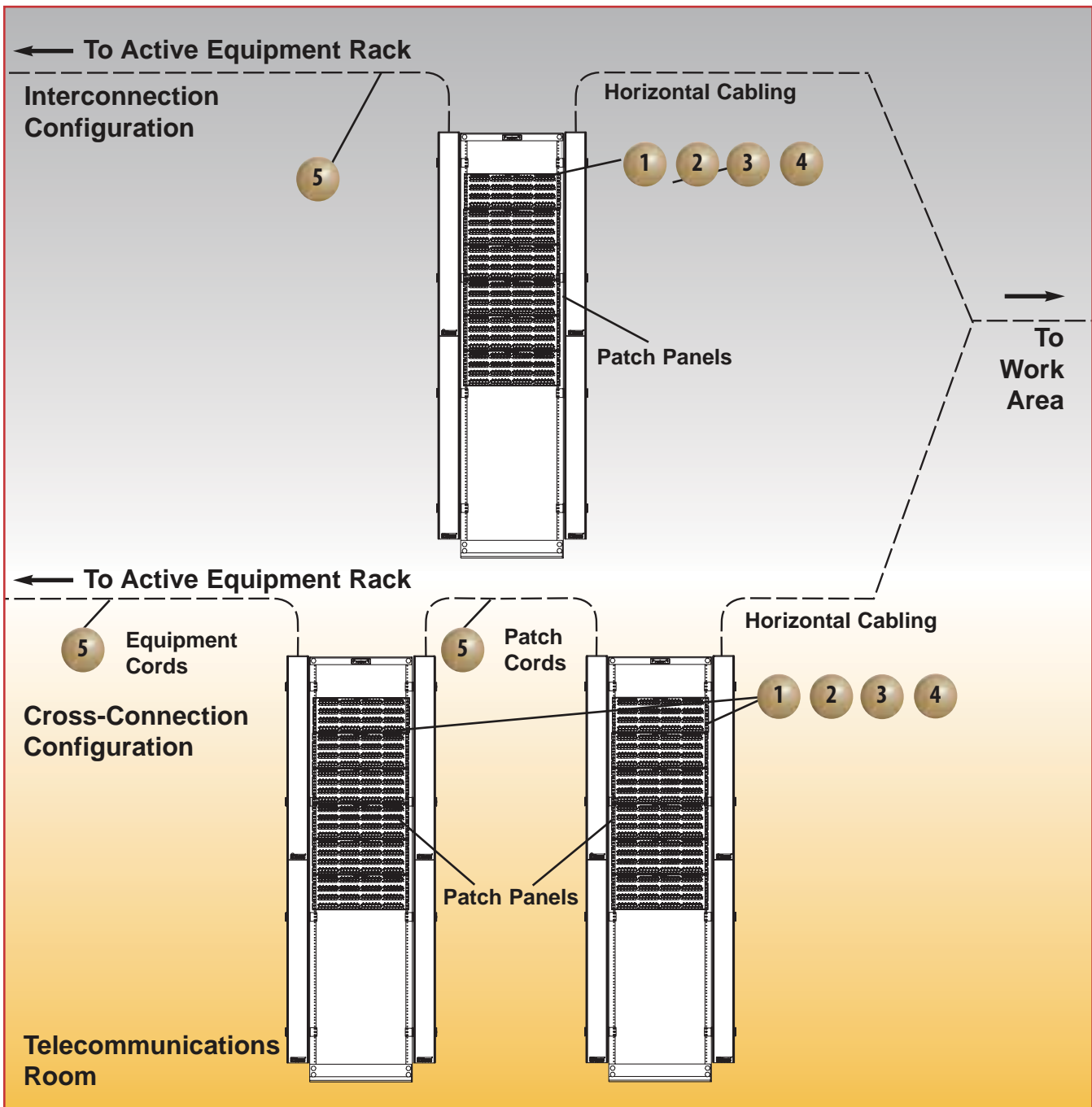
The *PANDUIT™* Network Connectivity Group offers solutions for all twisted pair copper cabling applications. Systems are designed to exceed the latest industry standards, providing assurance of network reliability. The *PANDUIT* solution will support emerging technologies, including Voice over IP and Gigabit Ethernet.







- **Modular system eases installation and moves, adds and changes**
- **High density conserves valuable rack space**
- **Backwards compatibility supports existing infrastructure**
- **Products support worldwide applications**
- **Continual investment in research & development**

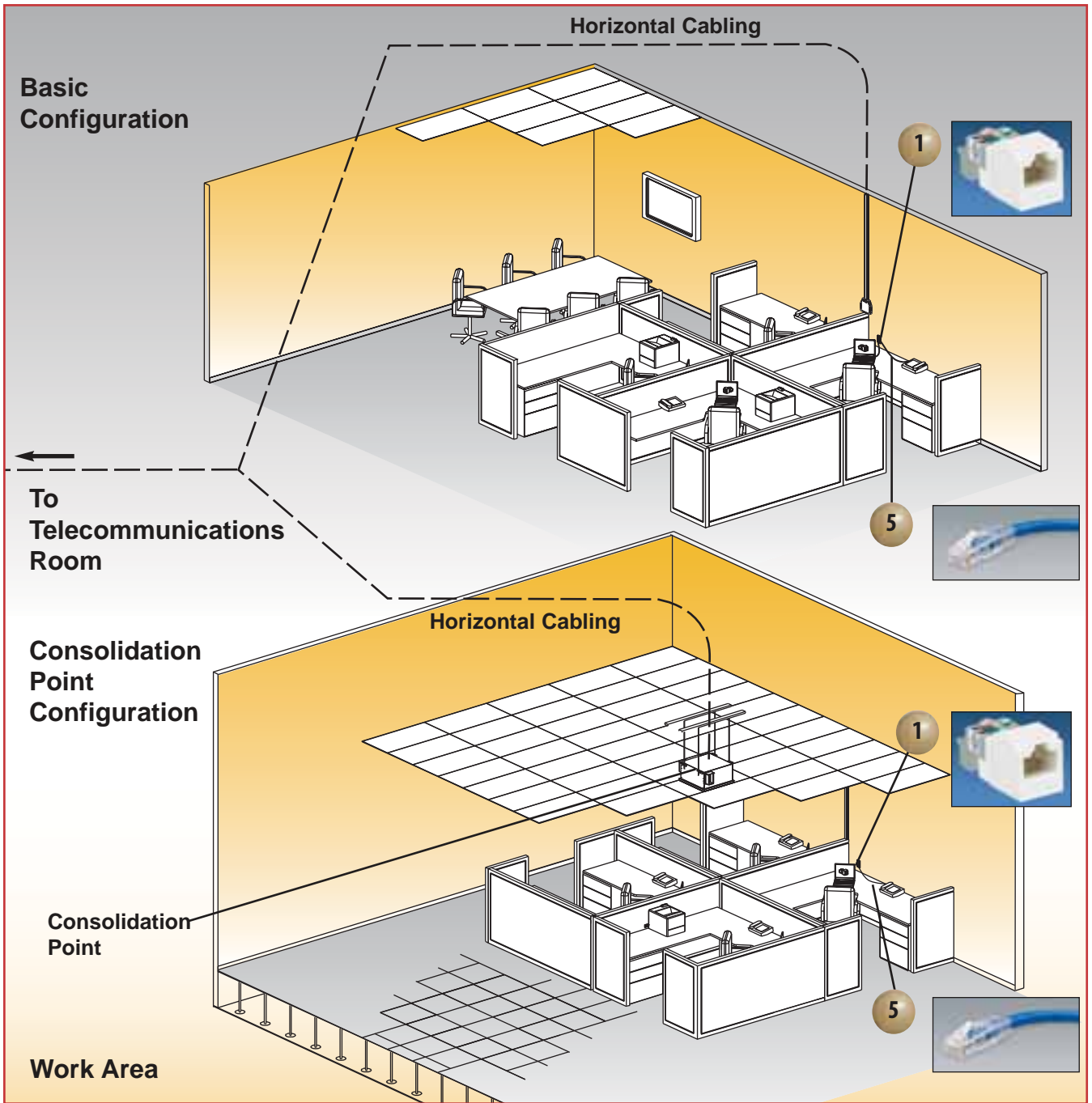
The *TX6™ PLUS* Copper Connectivity System includes the *MINI-COM™ TX6™ PLUS* Modules, *DP6™ PLUS* Patch Panels, *TX6™ PLUS* Category 6 Patch Cords, *GP6™ PLUS* Punchdown System and *TX6™ PLUS* Modular Plugs. *PANDUIT* also offers solutions for reliable Category 5e performance with the *MINI-COM™ TX5e™* Jack Modules, *DP5e™* Patch Panels, Category 5e Patch Cords, *PAN-PUNCH™* Punchdown System and *PAN-PLUG™* Modular Plugs. *PANDUIT* solutions are designed with the flexibility to support your growing and changing network requirements.

Copper Connectivity System



Complete Solutions for both Category 5e and Category 6

<p>1</p> <p>MINI-COM™ Jack Modules (pages 20 - 21)</p> 	<p>2</p> <p>MINI-COM™ Modular Patch Panels (page 62)</p> 	<p>3</p> <p>Punchdown Patch Panels (page 63)</p> 	<p>4</p> <p>Punchdown Rack Mount Panels (page 78)</p> 
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5

Patch Cords
(pages 68 - 70)



NEW! DPoE™ Power Patch Panel and Power System

- Power Patch Panels are fully compliant with IEEE 802.3af and Cisco Inline Power specifications
- RJ45 terminations with LEDs on front of panel to indicate port powering or port status
- 110 punchdown terminations on rear of panel achieve highest density solution compared to traditional midspan hubs and terminate to outlets to supply data and power
- 2 RJ45 terminations on rear of panel offer network management connections
- Terminates 4 pair 22-24 AWG 100 ohm solid and stranded unshielded twisted pair cable
- DPOEPWRB120 Power Supply design minimises space consumption and allows for flexible placement inside rack
- Power Systems low profile design offers a combination of high-power and small size for the enterprise data centre, embedded applications or telecommunications needs
- 48 Volt Power via 3 hot swappable rectifiers (ordered separately – must use DPoEPWRR500 or DPoEPWR1250 in any combination) supply a minimum of 500 watts to a maximum of 3,750 watts depending upon configuration
- 14 fuse slots allow for 14 individual DPoE24U1X Power Patch Panels to be connected to a single chassis



DPOE24U1X



DPOEPWRB120



DPOEPWRCU

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.
Power Patch Panel			
DPOE24U1X	24 port Power Over Ethernet (PoE) power patch panel supports 10/100 ethernet connectivity.	1	1
Power Supply			
DPOEPWRB120	DPoE™ 120 Watt Power Supply. Suitable for single power patch panel installations with low power needs or a mixture of active and passive devices.	—	1
Power Systems			
DPOEPWRCU	DPoE™ Power System Unmanaged Chassis: Utilised for supplying power to single and multiple power patch panels when equipped with the appropriate DPoE™ Power Rectifiers.	1	1
DPOEPWRCM	DPoE™ Power System Managed Chassis: Utilised for supplying power to single and multiple power patch panels when equipped with the appropriate DPoE™ Power Rectifiers. This chassis is meant to be used with a separate battery backup storage system to form the heart of a universal power distribution system.	1	1
DPOEPWRR500	DPoE™ 500 Watt Power Rectifier supplies power for multiple power patch panels. A combination of 3 of these rectifiers will support 4 to 7 panels. Used with DPOEPWRC*.	—	1
DPOEPWRR1250	DPoE™ 1250 Watt Power Rectifier supplies power for multiple power patch panels. A combination of 3 of these rectifiers will support up to 14 panels. Used with DPOEPWRC*.	—	1
DPOEPWRNIC	DPoE™ Network Interface Card. Upgrade to the DPoE™ Power System Unmanaged Chassis, allowing control of additional power system parameters.	—	1

[^]One rack space = 44.45mm
Power Supply and Power System requires proper A.C. country specific power cord (Cord-A for Australia, Cord-E for Europe, Cord-S for United States or Cord-U for United Kingdom) must be ordered separately.

Component Labels for *DPOE*™ Power Patch Panel and Power System



Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Panel Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Handheld Thermal Printer
All Patch Panels on this Page	C379X030FJJ	C379X030FJC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

Module Termination Tools



CGJT



CJT-X



CWST



CJAST



AVPDB

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CGJT	Terminates <i>GIGA-TX</i> ™ Style Jack Modules	1	50
CJT-X	Terminates <i>MINI-COM</i> ™ <i>MINI-JACK</i> ™ Jack Modules	10	50
CWST	Copper wire snipping tool, cuts conductors flush for improved performance.	1	—
CJAST	Adjustable, single handed stripping tool, strips outer jacket of 4-pair UTP and ScTP cable.	1	—
AVPDB	Audio Video Punchdown Base used to assist in terminating <i>MINI-COM</i> ™ S-Video and RCA punchdown modules	1	50



MINI-COM™ Modular Faceplate Patch Panels

- Allow front access to installed modules for easy moves, adds and changes
- Accept *MINI-COM*™ Modules for UTP (including Category 5e and Category 6), Fibre Optic and Coax, 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 TIA/EIA 19" or 23" racks with optional extender bracket



CPPL24WBL



CPPL48WBL



CPP24WBL



CPP48WBL



C4PPLK

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
<i>MINI-COM</i>™ Modular Patch Panels with Labels				
CPPL24WBL	24 port patch panel with labels, supplied with 6 CFFPL4 type snap-in faceplates.	1	1	10
CPPL48WBL	48 port patch panel with labels, supplied with 12 CFFPL4 type snap-in faceplates.	2	1	10
<i>MINI-COM</i>™ Modular Patch Panels				
CPP24WBL	24 port patch panel supplied with 6 CFFP4 type snap-in faceplates.	1	1	10
CPP48WBL	48 port patch panel supplied with 12 CFFP4 type snap-in faceplates.	2	1	10
Replacement Labels for <i>MINI-COM</i>™ Modular Patch Panels				
C4PPLK*	Replacement label / label cover kit for <i>MINI-COM</i> ™ Modular Patch Panels with Label / Label Covers (CPPL24WRBL, CPPL48WRBL, CPPL24WBL, CPPL48WBL) and <i>MINI-COM</i> ™ Modular Furniture Faceplates (CFFPL4, CFFHSL4, CFFPEBSL4). Each kit contains 6 labels and 6 clear label covers per bag.	—	1	10

[^] One rack space is 44.45mm

M6 and #12-24 mounting screws included.

* The TIA/EIA-606-A Standard states that all labels shall be mechanically generated, write on labels are not standard compliant.

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	<i>PANTHER</i> ™ LS8 Hand-Held Thermal Printer
CPPL24WBL CPPL48WBL	C261X035Y1J	C261X035Y1C
CPP24WBL CPP48WBL	C125X030FJJ	C125X030FJC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

‡For non-adhesive labelling solution, do not remove liner from label.



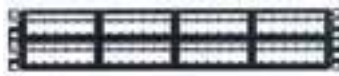
MINI-COM™ M6 Style Modular Faceplate Patch Panels

- Allow front access to installed modules for easy moves, adds and changes
- Accept *MINI-COM*™ Modules for UTP (including Category 5e and Category 6), Fibre Optic and Coax, 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 TIA/EIA 19" or 23" racks with optional extender bracket



CPPL24M6BL



CPPL48M6BL



C6PPLK1-24



C6PPLK25-48

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
<i>MINI-COM</i>™ Modular 6 Port Faceplate Patch Panel				
CPPL24M6BL	24 port patch panel, supplied with 4 CFPLM6BL snap-in faceplates.	1	1	10
CPPL48M6BL	48 port patch panel, supplied with 8 CFPLM6BL snap-in faceplates.	2	1	10

Replacement Labels for *MINI-COM*™ Modular Patch Panels

C6PPLK1-24*	Replacement labels for <i>MINI-COM</i> ™ Modular 6 port Faceplate Patch Panels with Label / Label Covers (CPPL24M6BL). Labels are pre-printed 1-24 on one side and write on area on reverse side.	–	1	10
C6PPLK25-48*	Replacement labels for <i>MINI-COM</i> ™ Modular 6 port Faceplate Patch Panels with Label / Label Covers (CPPL**M6BL). Labels are pre-printed 25-48 on one side and write on area on reverse side.	–	1	10

[^] One rack space = 44.45mm

M6 and #12-24 mounting screws included.

* The TIA/EIA-606-A Standard states that all labels shall be mechanically generated, write-on labels are not standard compliant.

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	<i>PANTHER</i> ™ LS8 Hand-Held Thermal Printer
CPPL24M6BL CPPL48M6BL	C261X035Y1J	C261X035Y1C

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

‡For non-adhesive labelling solution, do not remove liner from label.



MINI-COM™ High Density Modular Faceplate Patch Panels

- Accept *MINI-COM™* Modules for UTP (including Category 5e and Category 6), Fibre Optic and Coax, which snap in and out for easy moves, adds and changes
- Mount to standard TIA/EIA 19" rack or 23" racks with optional extender bracket



CPP48HDWBL



CPPL72WBL

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
CPP48HDWBL	48 port patch panel supplied with 6 eight snap-in faceplates. Ports are pre-printed 1 - 48 on patch panel	1	1	10
CPPL72WBL	72 port patch panel with labels, supplied with 6 twelve port front removable snap-in faceplates. Pre-printed numbered labels include a writable surface on back when pre-numbered labels are not applicable.	2	1	10

[^] One rack space = 44.45mm
M6 and #12-24 mounting screws included.

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

Suggested Label Solutions for TIA/EIA-6060A Compliance		
Patch Panel Part Number	Laser/Ink Jet Desktop Printer Label	<i>PANTHER™</i> LS8 Hand-Held Thermal Printer
CPPL72WBL	C282X030Y1J	C282X030Y1C

For complete labelling solutions and product information, reference the Labelling and Administration section on page 349-356 and www.panduit.com

‡For non-adhesive labelling solution do not remove liner from label.

MINI-COM™ Flush Mount Modular Patch Panels

- Flush mount design provides a solution for non-shielded installations that do not require all metal patch panels
- Rear mounted faceplates allow modules to be flush with front of patch panel
- Accept *MINI-COM™* Modules for UTP (including Category 5e and Category 6), Fibre Optic and Coax, 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 TIA/EIA 19" rack or 23" racks with optional extender bracket
- Angled patch panels eliminate the need for horizontal cable managers
- Compatible with *PANDUIT™ PATCHRUNNER™* Cable Management System



CPPA24FMWBL



CPPA48FMWBL

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
CPPA24FMWBL	Angled 24 port flush mount patch panel, supplied with 6 four port rear mounted faceplates.	1	1	10
CPPA48FMWBL	Angled 48 port flush mount patch panel, supplied with 6 eight port rear mounted faceplates.	2	1	10

[^] One rack space = 44.45mm
M6 and #12-24 mounting screws included.



MINI-COM™ Angled High Density Modular Patch Panel

- Quadruple Patch Panel Density
- Angled Patch Panel eliminates need for horizontal cable manager
- High Density Patch Panel provide 48 port in one rack space
- Result is 48 ports in one rack space vs. 24 ports in two rack spaces
- Allows port identification to be visible at all times
- Accept MINI-COM™ Modules for UTP (including Category 5e and Category 6), Fibre Optic and Coax, which snap in and out for easy moves, adds and changes
- Mount to standard TIA/EIA 19" rack or 23" racks with optional extender bracket
- Vertical cable managers in the PANDUIT™ PATCHRUNNER™ Cable Management System utilise moulded cable management fingers and integral bend radius control. These features coupled with Angled Patch Panels provide the ultimate high density cable management system



Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
CPPA48HDWBL	48 port angled patch panel supplied with 6 eight port snap-in faceplates. Ports are pre-printed 1 - 48 on patch panel.	1	1	10

[^] One rack space = 44.45mm
M6 and #12-24 mounting screws included.



MINI-COM™ Angled Modular Faceplate Patch Panels



- Angled design allows cable to flow to each side of the rack and eliminates the need for horizontal cable managers by enabling patch cords to be routed directly into vertical cable managers
- Allow labelling scheme and port identification to be visible at all times
- Allow front access to installed modules for easy moves, adds and changes
- Accept MINI-COM™ Modules for UTP (including Category 5e and Category 6), Fibre Optic and Coax, which snap in and out for easy moves, adds and changes
- Mount to standard TIA/EIA 19" rack or 23" racks with optional extender bracket
- Compatible with PATCHRUNNER™ Network Cable Management System



CPPLA24WBL



CPPLA48WBL



CPPLA72WBL

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
CPPLA24WBL	24 port angled patch panel with labels, supplied with 6 CFFPL4 type front removable snap-in faceplates.	1	1	10
CPPLA48WBL	48 port angled patch panel with labels, supplied with 12 CFFPL4 type front removable snap-in faceplates.	2	1	10
CPPLA72WBL	72 port angled patch panel with labels, supplied with 6 twelve port front removable snap-in faceplates. Pre-printed numbered labels include a writable surface on back when pre-numbered labels are not applicable.	2	1	10

[^] One rack space = 44.45mm
M6 and #12-24 mounting screws included.

Component Labels for MINI-COM™ Angled Modular Faceplate Patch Panels

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Panel Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
CPPLA24WBL	C261X035Y1J	C261X035Y1C
CPPLA48WBL		
CPPLA72WBL	C282X030Y1J	C282X030Y1C

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

‡For non-adhesive labelling solution do not remove liner from label.



MINI-COM™ Recessed Modular Faceplate Patch Panels

- 75mm 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 for easy adds, moves and changes
- Accept MINI-COM™ Modules for UTP (including Category 5e and Category 6), Fibre Optic and Coax, which snap in and out for easy moves, adds and changes
- Label patch panels available for easy port identification, replacement label / label covers available
- Mount to standard TIA/EIA 19" or 23" racks with optional extender bracket



CPPL24WRBL



CPPL48WRBL

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
CPPL24WRBL	24 port recessed patch panel with labels, supplied with 6 CFFPL4 type front removable snap-in faceplates. Designed for use with racks and cabinets.	1	1	10
CPPL48WRBL	48 port recessed patch panel with labels, supplied with 12 CFFPL4 type front removable snap-in faceplates. Designed for use with racks and cabinets.	2	1	10

[^] One rack space = 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	PANTHER™ LS8 Hand-Held Thermal Printer
CPPL24WRBL	C261X035Y1J	C261X035Y1C
CPPL48WRBL		

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

‡For non-adhesive labelling solution do not remove liner from label.



MINI-COM™ 12 Port Modular Faceplate Patch Panels

- Accept MINI-COM™ Modules for UTP (including Category 5e and Category 6), Fibre Optic and Coax, 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 3 CFFP4 snap-in faceplates.	1	10
CPP12WBL	12 port patch panel supplied with 3 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	PANTHER™ LS8 Hand-Held Thermal Printer
CWPP12WBL	C125X030FJJ	C125X030FJC
CPP12WBL		

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com



MINI-COM™ All Metal Shielded Modular Patch Panels

- Accept *MINI-COM™* Modules for grounded shielded applications
- Provide write-on areas for port identification
- Not recommended in applications where moves, adds and changes are frequent

- Mount to standard TIA/EIA 19" rack or 23" racks with optional extender bracket
- For non-shielded applications use *MINI-COM™* Modular Patch Panels found on pages 57 - 61



CP16BL



CP24BL



CP48BL



CP72BL



CP96BL



CP16WSBL



CP24WSBL



CP48WSBL



PGK



PGK96



PGKE



PGKE96

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
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MINI-COM™ All Metal Modular Patch Panels

CP16BL	16 port all metal modular patch panel.	1	1	10
CP24BL	24 port all metal modular patch panel.	1	1	10
CP48BL	48 port all metal modular patch panel.	2	1	10
CP72BL	72 port all metal modular patch panel. Rear cable management is required to prevent twisting.	2	1	10
CP96BL	96 port all metal modular patch panel.	4	1	10

MINI-COM™ All Metal Modular Patch Panels with Strain Relief Bar

CP16WSBL	16 port all metal modular patch panel with strain relief bar.	1	1	10
CP24WSBL	24 port all metal modular patch panel with strain relief bar.	1	1	10
CP48WSBL	48 port all metal modular patch panel with strain relief bar.	2	1	10

Grounding Kits for All Metal Modular Patch Panel

PGK	Attaches CP**BL panel to grounding bus for use with painted racks in shielded applications. Insulated #12 AWG stranded copper wire 200mm long	—	1	10
PGK96	Attaches CP**BL panel to grounding bus for use with painted racks in shielded applications. Insulated #12 AWG stranded copper wire 2400mm long. Lug installed on one end with additional lug included to cut and crimp to desired length.	—	1	10
PGKE	Attaches CP**WSBL panel to grounding bus when used with painted racks in shielded applications. Insulated #10 AWG stranded copper wire 200mm long.	—	1	10
PGKE96	Attaches CP**WSBL panel to grounding bus for use with painted racks in shielded applications. Insulated #10 AWG stranded copper wire 2400mm long. Lug installed on one end with additional lug included to cut and crimp to desired length.	—	1	10

[^] One rack space = 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.

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

Patch Panel Part Number	Suggested Labels Solutions for TIA/EIA-606-A Compliance	
	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer Label
CP16BL	C061X030FJJ	C061X030FJC
CP24BL	C252X030FJJ	C252X030FJC
CP48BL		
CP72BL		
CP96BL		
CP16WSBL		
CP24WSBL		
CP48WSBL		

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

DP6™ 10GiG™ Modular Punchdown Patch Panels



DP246X88TG
DPA246X88TG

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
DP246X88TG	24 port Augmented Category 6, 10Gb/s patch panel with 24 RJ45 8 position, 8 wire ports	1	1	50
DP486X88TG	48 port Augmented Category 6, 10Gb/s patch panel with 48 RJ45 8 position, 8 wire ports	2	1	50
DPA246X88TG	24 port Augmented Category 6, 10Gb/s patch panel with 24 RJ45 8 position, 8 wire ports	1	1	50
DPA486X88TG	48 port Augmented Category 6, 10Gb/s patch panel with 48 RJ45 8 position, 8 wire ports	2	1	50

[^]One rack space = 44.45mm

Includes #12-24 and metric M6 bonding screws to mount and ground the patch panel to the rack.

Replacement punchdown modules available in standard colour (Black) – part number DRJ6X88TGBL.

DP6™ PLUS Patch Panels

- Exceeds TIA/EIA-568-B.2-1 Category 6 and ISO11801 2nd Edition Class E standards
- Each port is 100% tested to ensure NEXT and return loss performance and is individually serialised to support traceability
- Utilises 110 punchdown termination on back panel
- Each port contains a universal label that is colour coded for T568A and T568B wiring schemes
- Angled patch panels facilitate proper bend radius control and minimise the need for horizontal cable managers
- Terminates 4 pair, 22 – 24 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 available
- Can be clearly identified with labels and icons



DP12688TG



DP24688TG



DP48688TG



DPA48688TG

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
DP6™ Plus Flat Patch Panels				
DP12688TG	12 port, Category 6, patch panel with 12 RJ45, 8 position, 8 wire ports. Mounts to 89D wall mount bracket.	—	1	10
DP24688TG	24 port, Category 6, patch panel with 24 RJ45, 8 position, 8 wire ports.	1	1	10
DP48688TG	48 port, Category 6, patch panel with 48 RJ45, 8 position, 8 wire ports.	2	1	10
DP6™ Plus Angled Patch Panels				
DPA24688TG	24 port, Category 6, patch panel with 24 RJ45, 8 position, 8 wire ports.	1	1	10
DPA48688TG	48 port, Category 6, patch panel with 48 RJ45, 8 position, 8 wire ports.	2	1	10

[^]One rack space = 44.45mm

M6 and #12-24 mounting screws included.

89D Wall Mount Bracket available on page 61.

Replaceable punchdown modules available in standard colour (Black) – part number DRJ688TGBL.

Component Labels for DP6™ PLUS Patch Panels

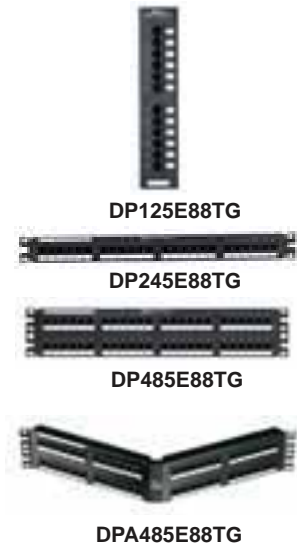


Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Panel Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
All Patch Panels on this Page	C379X030FJJ	C379X030FJC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

UL LISTED SP DP5e™ Patch Panels

- Exceeds TIA/EIA-568-B.2 Category 5e and ISO11801 2nd Edition Class D standards
- Angled patch panels facilitate proper bend radius control and minimise the need for horizontal cable managers
- Utilises 110 punchdown termination on back panel
- Removable connector packs
- Integral cable tie mounts for improved cable management
- Mount to standard EIA 19" rack or 23" racks with optional extender brackets
- Write-on areas for port and panel identification available with optional covers (DPLT and DPLF)
- Can be clearly identified with labels and icons
- Each port has a universal label colour-coded for T568A and T568B wiring schemes
- Terminate with PDT110 Punchdown Tool
- Terminates 4 pair, 22 – 24 AWG, 100 ohm, solid and stranded, unshielded twisted pair cable



Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
DP5e™ Flat Patch Panels				
DP125E88TG	12 port, Category 5e, patch panel with 12 RJ45, 8 position, 8 wire ports. Mounts to 89D Wall Mount Bracket.	—	1	10
DP245E88TG	24 port, Category 5e, patch panel with 24 RJ45, 8 position, 8 wire ports.	1	1	10
DP485E88TG	48 port, Category 5e, patch panel with 48 RJ45, 8 position, 8 wire ports.	2	1	10

DP5e™ Angled Patch Panels

DPA245E88TG	24 port, Category 5e, patch panel with 24 RJ45, 8 position, 8 wire ports.	1	1	10
DPA485E88TG	48 port, Category 5e, patch panel with 48 RJ45, 8 position, 8 wire ports.	2	1	10

[^]One rack space = 44.45mm.
M6 and #12-24 mounting screws included.
Replaceable punchdown modules available in standard colour (Black) – part number DRJ5E88TGBL.

Component Labels for DP5e™ Patch Panels

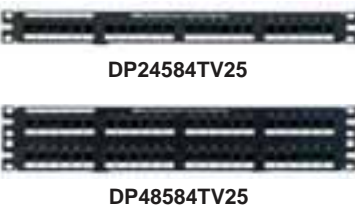


Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Panel Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
All Patch Panels on this Page	C379X030FJJ	C379X030FJC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

UL LISTED SP DATA-PATCH™ 10/100 Base-T Patch Panels

- Consists of female telco 50 pin/25 pair connectors with VELCRO fasteners wired per RJ21 industry standard for backward compatibility
- Each port is wired for 10/100 Base-T Ethernet utilising pins 1, 2, 3 and 6
- Category 5 Powersum rated (in the channel) when used with PANDUIT™ Category 5 25 pair cable assemblies
- Does not require use of a punchdown tool
- Mount to standard TIA/EIA 19" rack or 23" racks with optional extender bracket
- Write-on areas for port and panel identification available with optional covers (DPLT and DPLF)
- Can be clearly identified with labels and icons



Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
DP24584TV25	24 port patch panel.	1	1	10
DP48584TV25	48 port patch panel.	2	1	10

[^]One rack space = 44.45mm
M6 and #12-24 mounting screws included.
VELCRO is a registered trademark of Velcro Industries B.V.

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

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Panel Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
DP24584TV25 DP48584TV25	C379X030FJJ	C379X030FJC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

UL LISTED SR DATA-PATCH™ 10/100 Base-T Cable Assemblies

- Category 5 Powersum rated 25 pair
- Connectorised Cable Assemblies are enhanced performance patch cords featuring 25 pair Powersum Category 5 solid cable with Category 5 25 pair plugs on either end
- System also includes Category 5 Powersum rated 25 pair Hydra with Category 5, 25 pair male connectors on one end and 12 Pan-Plug modular plugs terminated to the 10/100 Base-T Ethernet pins (1, 2, 3 and 6) on the other end
- All cords are 100% factory tested for wiring sequence and continuity



Part Number	Part Description	Length (M)	Std. Pkg. Qty.	Std. Ctn. Qty.
UTPCH8SR25	Straight, 110 right orientation.	2.4	1	10
UTPCH8SL25	Straight, 110 left orientation.	2.4	1	10
UTPCH8L25	Both 110 left orientation.	2.4	1	10
UTPCH8R25	Both 110 right orientation.	2.4	1	10
UTPCH8LR25	110 left 110 right.	2.4	1	10
UTPCH812PP25	12 Pan-Plug Modular Plugs, straight	2.4	1	10

Cable lengths of 2m, 3m and 5m are also available. Replace 8 in part number with desired lengths. For example: UTPCH3MSR25 is a 3 metre straight and right 25 pair Connectorised Cable Assembly.

Self-Laminating Labels for DATA-PATCH™ 10/100 Base-T Cable Assemblies

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Panel Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER LS8 Hand-Held Thermal Printer
All UTPCH8*	S100X400FAJ	S100X400VAC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

*All UTPCH8 parts on this page.

UL LISTED SR Voice Patch Panel

- Consists of single female telco 50 pin / 25 pair connector with VELCRO fasteners wired for common active voice equipment
- 24 RJ45 ports with pins 4 and 5 active in each port
- VELCRO screw connector accommodates 180, 110 or 90 degree patch cord connectors on back of patch panel
- Does not require use of a punchdown tool
- Mounts to standard TIA/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



Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.
VP24382TV25	24 RJ45 port patch panel with pins 4 and 5 active in each port and one female RJ21 connector on back of panel.	1	1	10

^ One rack space = 44.45mm
M6 and #12-24 mounting screws included.
VELCRO is a registered trademark of Velcro Industries B.V.

Component Labels for Voice Patch Panels

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
VP50384KBL	Voice Patch Panel 568A Category 3, 50 port, 8 pins with 4 active (3,4,5, and 6). Black colour	1	1	10

[^] One rack space = 44.45mm

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Panel Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
VP24382TV25	C379x030FJJ	C379X030FJC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com



Coupler Patch Panels

- Mount to standard TIA/EIA (482.60mm) rack or (584.20mm) racks with optional extender bracket
- Include write-on areas for panel identification
- Include pre-printed numbers for port identification



CP245E88BL



CP48BNCBL

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
CPKC24BL	24 port patch panel with 24 pre-installed RJ45 keystone couplers. Complies with Category 5e channel performance requirements	1	1	10
CP48BNCBL	48 port patch panel with 48 pre-installed 75 ohm BNC couplers	1	1	10

[^] One rack space = 44.45mm
M6 and #12-24 mounting screws included.

Strain Relief Bars

- Mounts to standard TIA/EIA 19" rack
- Ideal for high density patch panels to support excess cable
- Includes radius edge at rear to provide optimal bend radius control
- Includes *TAK-TY™* Hook & Loop Cable Ties (6 pieces per manager bar) to support 6 bundles of cables (up to 12 cables each) – 24,48 or 72 cables in up to 2RU



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
SRB19BL	Cable strain relief bar extends 50mm off back of rack to support cables in punchdown or modular applications.	1	10
SRBS19BL-X	Cable strain relief bar supports cables in punchdown or modular applications.	10	0
SRBM19BL	Strain Relief Bars	1	10

#12-24 mounting screws included.

NEW! TX6™ PLUS Modular Plug

- Patented tangle free latch prevents snags and provides easy release saving time on frequent moves, adds and changes
- Meets FCC Part 68 and exceeds IEC60603-7 specifications
- Used in UTPSP series patch cords providing Category 6 performance

- Slender strain relief boot provides easy access in high density applications
- Integral pair manager optimises performance and consistency by reducing untwist at plug
- Contacts plated with 1.27 microns of gold
- Terminates 24 gauge stranded conductor with max. conductor insulation diameter of 1mm



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
SP688-C	8 position, 8 wire modular plug featuring tangle free latch. MPT5-8 crimp tool required for termination.	100	1000

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

PAN-PLUG™ High Performance Modular Plugs

- Patented tangle free plug latch prevents snags and provides easy release saving time on frequent moves, adds and changes
- Meets FCC Part 68 and exceeds IEC 60603-7 specifications
- Used in UTPCH series patch cords providing Category 5e performance

- Simplified termination due to a unique process which requires no loading bar. Guide ramp facilitates easy conductor insertion and termination
- Contacts plated with 1.27 microns of gold
- Terminates 24 gauge stranded or solid conductor with max conductor insulation diameter of 1mm



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
MP588-C	8 position, 8 wire modular plug featuring tangle free latch. MPT5-8 crimp tool required for termination.	100	1000

Modular Plug Termination Tools

- WPT-8 arranges all eight conductors in the proper sequence and provides proper gauge length for trimming conductors for MP588

- MPT5-8 required for modular plug termination



WPT-8



MPT5-8

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
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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
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Modular Plug Installation Tools

MPT5-8	Crimp tool for TX6™ PLUS and PAN-PLUG™ Modular Plugs.	1	—
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NEW!

TX6™ 10GIG™ Patch Cords

- Plug performance in centre of TIA/EIA component range, ensuring interoperability and optimal performance
- Plug contacts plated with 1.27 microns of gold for improved durability
- 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 optimises performance and consistency by reducing untwist at plug
- Labels on patch cords provide identification of performance level, length and quality control number
- Each patch cord is 100% performance tested



Part Number	Part Description	Length M	Cable Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
UTP6X1M	Augmented Category 6 10Gb/s Patch Cord with TX6™ PLUS Modular Plug on both ends	1m	Off White	1	10
UTP6X1.5M		1.5m	Off White	1	10
UTP6X2M		2m	Off White	1	10
UTP6X2.5M		2.5m	Off White	1	10
UTP6X3M		3m	Off White	1	10
UTP6X5M		5m	Off White	1	10

NOTE: All patch cords constructed of 24AWG solid copper cable.

‡ For standard cable colour other than Off White, add suffix BU (Blue) to end of part number.



NEW!

TX6™ PLUS Category 6 Patch Cords

- Exceeds TIA/EIA-568-B.2-1 Category 6 standard
- ETL tested and approved for Category 6 component compliance
- Plug performance in centre of TIA/EIA component range, ensuring interoperability and optimal performance
- Constructed of Category 6 24 AWG UTP stranded cable and TX6™ PLUS Modular Plugs for superior performance
- Plug contacts plated with 1.27 microns of gold for improved durability
- 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 optimises performance and consistency by reducing untwist at plug
- Labels on patch cords provide identification of performance level, length and quality control number
- Each patch cord is 100% performance tested
- Offered in a variety of lengths and colours to meet individual length and colour coding requirements



Part Number	Part Description	Cable Colour‡	Length (M)*	Std. Pkg. Qty.	Std. Ctn. Qty.
UTPSP1M	UTP stranded patch cord with TX-6™ PLUS Category 6 Modular Plug on each end for use in a Category 6 channel	Off White	1	1	10
UTPSP2M	Category 6 patch cord with TX-6™ PLUS Modular Plug on both ends	Off White	2	1	10
UTPSP3M	Category 6 patch cord with TX-6™ PLUS Modular Plug on both ends	Off White	3	1	10
UTPSP4M	Category 6 patch cord with TX-6™ PLUS Modular Plug on both ends	Off White	4	1	10
UTPSP5M	Category 6 patch cord with TX-6™ PLUS Modular Plug on both ends	Off White	5	1	10

‡For additional standard cable colours available from stock, add suffix BL (Black), BU (Blue), GR (Green), RD (Red), or YL (Yellow) VL (Violet) or OR (Orange) to end of part number.

*Non-standard lengths available to order are 6, 7, 8, 9, 10, 15, 20, 25, 30, 35, 40m. Typical shipping lead time is 20 working days from receipt of order and minimum order quantity is 10 (1 carton each) for these lengths.

To ensure optimal performance, PANDUIT™ recommends use with other PANDUIT™ Category 6 PLUS components. These products are also available in LSZH material add on an L to the part number as follows UTPSPL1M for a 1m LSZH patch cord.

Shielded 10GIG™ LSZH Category 6 Patch Cords

- Exceeds TIA/EIA 568-B.2 Category 6 standard
- ETL tested and approved for category 6 component compliance
- Plug performance in centre of TIA /EIA component range ensuring interoperability and optimal performance
- Constructed of 24 AWG shielded cable and TX6 modular plugs
- Plugs contact are plated with 1.27 microns of gold
- Patented tangle free latch prevents snags and provide easy release, saving time on moves, adds and changes
- Slender strain relief boot provides easy access in high density applications
- Labels on patch cords provide identification of performance level, length and quality control number

Part Number	Part Description	Length Metre	Cable Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
STP6X1MIG	Category 6 10GIG™ Shielded Patch cords with PAN-PLUG™ Modular Plug with black boots on each end	1	Grey	1	10
STP6X2MIG		2	Grey	1	10
STP6X3MIG		3	Grey	1	10
STP6X5MIG		5	Grey	1	10

‡ For additional standard colours available from stock, replace suffix (IG) with BL (Black) BU (Blue), GR (Green), RD (Red), YL (Yellow), VL (Violet), or OR (Orange), at the end of the part number

Self-Laminating Labels for TX6™ PLUS Patch Cords

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
All UTPSP*	S100X125FAJ	S100X125VAC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

*All UTPSP parts on this page.

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

- Quick and easy TIA/606A compliance for a wide range of cables and cable bundles
- Can be applied as a wrap-around marker (parallel to cable) or flag marker 45° or 90° to cable
- Attach with PANDUIT™ Intermediate or Standard Cross-Section Cable Ties
- Can also be used with PANDUIT 8.4mm and 12.5mm width TAK-TY™ Hook and Loop Cable Ties in the 90° flag application



SLCT-WH



SLCT-OR

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

Order number of packages required in multiples of Std. Pkg. Qty.

Component Labels for Self-Laminating Cable Marker Holders for 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	PANTHER™ LS8 Hand-Held Thermal Printer
All SLCT*	C200X100FJJ	C200X100FJC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

*All SLCT parts on the previous page.

Category 5e Patch Cords

- Exceeds TIA/EIA-568-B.2 Category 5e standard
- Patented tangle free latch prevents snags and provides easy release, saving time on frequent moves, adds and changes
- Exceeds FCC Part 68 and IEC 60603-7 specifications
- Constructed of Category 5e 24 AWG UTP stranded cable and PAN-PLUG™ Modular Plug for superior performance
- Plug contacts plated with 1.27 microns of gold for improved durability



Part Number	Part Description	Length (M)	Cable Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
UTPCH1M	Category 5e UTP stranded patch cord with PAN-PLUG™ modular plugs on both ends.	1	Off White	1	10
UTPCH1.5M		1.5	Off White	1	10
UTPCH2M		2	Off White	1	10
UTPCH2.5M		2.5	Off White	1	10
UTPCH3M		3	Off White	1	10
UTPCH5M		5	Off White	1	10

‡For additional standard cable colours available from stock, add suffix BL (Black), BU (Blue), GR (Green), RD (Red) or YL (Yellow) VL (Violet) or OR (Orange) to end of part number. Minimum order quantity is 10 (1 carton each) for these colours.

Shielded Category 5e LSZH Patch Cords

- Exceeds TIA/EIA-568-B.2 Category 5e standard
- Constructed of Category 5e 24 AWG LSZH UTP stranded cable and PAN-PLUG™ Modular Plug for superior performance
- Patented tangle free latch prevents snags and provides easy release, saving time on moves, adds and changes
- Plug contacts plated with 1.27 microns of gold

Part Number	Part Description	Length Metre	Cable Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
STPC1MBBL	Category 5e Shielded Patch cords with PAN-PLUG™ Modular Plug with black boots on each end	1	Grey	1	10
STPC2MBBL		2	Grey	1	10
STPC3MBBL		3	Grey	1	10
STPC5MBBL		5	Grey	1	10

Self-Laminating Labels for Category 5e Patch Cords

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
All UTPCH*	S100X125FAJ	S100X125VAC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

*All UTPCH parts on the previous page.

GP6™ PLUS Punchdown System



- Exceeds TIA/EIA-568-B.2-1 Category 6 standard
- Increases wiring capacity by 44% over standard 110 systems
- Accommodates round and crescent cable
- Uses industry standard 110 contacts and assembly methods



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 colour-coded wiring slots ease wiring



GPKBW144



GPKBW432

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GPKBW144	144-pair (36 port) high density field termination kit with legs.	1	10
GPKBW432	432-pair (108 port) high density field termination kit with legs.	1	10

Cable requirement : terminates most 22-26 AWG solid or stranded IWC wire with a 1.27mm OD, either PVC or LSZH rated.

Termination tool available on page 30.

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

Component Labels for GP6™ PLUS Systems

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Punchdown System Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
GPKBW144	C788X050Y1J	C788X050Y1C
GPKBW432		

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

‡For non-adhesive labelling solution, do not remove liner from label.

UL LISTED SP® 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
- Provides pre-packaged components necessary for termination

- Kit includes required quantity of bases and 4-pair connecting blocks, label holders and labels
- Highly visible colour-coded wiring slots ease wiring



GPKBW24



GPKBW72

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
GPKBW24	96-pair (24 port) base field termination kit with legs.	1	10
GPKBW72	288-pair (72 port) base field termination kit with legs.	1	10

Cable requirement : terminates most 22-26 AWG solid or stranded IWC wire with a 1.27mm OD, either PVC or LSZH rated.

Termination tool available on page 76.

To ensure optimal performance, *PANDUIT™* recommends use with other *PANDUIT* Category 6 PLUS components. For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

UL LISTED SP® 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
- Provides pre-packaged components necessary for termination

- Includes required quantity of bases and 4-pair connecting blocks, label holders and labels.
- Highly visible colour-coded wiring slots ease wiring
- Mount to standard TIA/EIA (482.6mm) racks



GPB2884R2



GPB2884R4WJ

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
GPB2884R2	Two 144-pair (36 port) bases premounted to a panel with 4-pair connector kit included.	2	1	10
GPB2884R4WJ	Two 144-pair (36 port) bases and jumper troughs premounted to a panel with 4-pair connector kit included.	4	1	10

[^] One rack space = 44.45mm

M6 and #12-24 mounting screws included.

Termination tool available in page 76.

Cable requirement : terminates most 22-26 AWG solid or stranded IWC wire with a 1.27mm OD, either PVC or LSZH rated.

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

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com



GP6™ PLUS Category 6 Standard 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
- Provides pre-packaged components necessary for termination
- Includes required quantity of bases and 4-pair connecting blocks, label holders and labels
- Highly visible colour-coded wiring slots ease wiring
- Mount to standard TIA/EIA (482.6mm) racks



GPB484R2



GPB484R4WJ

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
GPB484R2	Two 96-pair (24 port) bases premounted to panel with 4-pair connector kit included.	2	1	10
GPB484R4WJ	Two 96-pair (24 port) bases and jumper troughs premounted to panel with 4-pair connector kit included.	4	1	10

[^] One rack space = 44.45mm

M6 and #12-24 mounting screws included

Termination tool available on page 76.

Cable requirement: terminates most 22-26 AWG solid or stranded IWC wire with a 1.27mm max OD, either PVC or LSZH rated.

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

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com



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 colour-coded wiring slots ease wiring
- Can be terminated with single or multiple position punchdown tools
- Can be utilised with discrete wires or GP6™ PLUS patch cord connector
- Constructed of UL 94V-0 high impact polycarbonate material
- Patented single piece robust construction
- Optional four pair retaining clip (GPRC4) available which provides added conductor retention and minimises errors during moves, adds and changes



GPCB4



GPCB5

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
4-Pair Connecting Block			
GPCB4-X	4-Pair Connecting Block	10	1000
GPCB4-C	4-Pair Connecting Block	100	1000
5-Pair Connecting Block			
GPCB5-X	5-Pair Connecting Block	10	1000
GPCB5-C	5-Pair Connecting Block	100	1000

Termination tool available on page 76

Cable requirement: terminates most 22-26 AWG solid or stranded IWC wire with a 1.27mm max OD, either PVC or LSZH rated.

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

UL LISTED **SP** **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 colour-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



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

Termination tool available on page 76.
 For rack mount applications see page 78
 Cable requirement: terminates most 22-26 AWG solid or stranded IWC wire with a 1.27mm max OD, either PVC or LSZH rated.
 To ensure optimal performance, *PANDUIT™* recommends use with other *PANDUIT* Category 6 PLUS components.

UL LISTED **SP** **GP6™ PLUS Category 6 Standard Density Bases**

- Exceed TIA/EIA-568-B.2-1 Category 6 standard
- Ideal for use in cross connects and consolidation point applications
- Highly visible colour-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



Part Number	Part Description	Std. Pkg. Qty.
96-Pair (24 Port) Base		
GPB24-X	Positions and holds UTP wire for termination with Category 6 connecting blocks.	10
96-Pair (24 Port) 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) Base		
GPB72-X	Positions and holds UTP wire for termination with Category 6 connecting blocks.	10
288-Pair (72 Port) 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 76.
 For rack mount applications see page 78.
 Cable requirement: terminates most 22-26 AWG solid or stranded IWC wire with a 1.27mm max OD, either PVC or LSZH rated.
 To ensure optimal performance, *PANDUIT* recommends use with other *PANDUIT* Category 6 PLUS components.

GP6™ PLUS Standard Density Tower Kits

- 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.
GPKT724	288-pair (72 port) standard density GP6 PLUS Tower Kit.	1

Termination tool available on page 76.

Cable requirement: terminates most 22-26 AWG solid or stranded IWC wire with a 1.27mm max OD, either PVC or LSZH rated.

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

For labelling solutions, reference chart on pages 349-356.



Jumper Troughs

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



Part Number	Part Description	Std. Pkg. Qty.
P110JTW-X	Jumper trough with legs	10
P110JT-X	Jumper trough	10

GP6™ PLUS Termination Tools and Accessories

- Terminates wires on both cable and cross-connect sides of 110 connecting blocks
- Reversible blade provides option of terminating without cutting wire
- Five 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	—

UL LISTED SP GP6™ PLUS Patch Connectors

- 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
- Polarised to prevent reverse installation to connector block
- Clear polycarbonate cover keeps conductors visible after termination
- Cover also provides proper wiring sequence



GPC5E1-X



GPC5E2-X

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



PAN-PUNCH™ 110 Category 5e System Kits

- 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
- Includes 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			
P110KB1004	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
P110KB1005	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			
P110KB3004	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
P110KB3005	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 83.

Cable requirement: terminates most 22-26 AWG solid or stranded IWC wire with a 1.27mm max OD, either PVC or LSZH rated.

Part Number	Component Quantity per PAN-PUNCH™ 110 Category 5e Kits						
	Bases		Connecting Blocks			Label Holders	Labels
	P110BW300	P110BW100	P110CB3	P110CB4	P110CB5	P110LH	DSL110
P110KB1004	—	1	—	20	4	2	2
P110KB1005	—	1	—	—	20	2	2
P110KB3004	1	—	—	60	12	6	6
P110KB3005	1	—	—	—	60	6	6

Punchdown Rack Mount Panels

- Accept punchdown bases for rack mount applications



P110B100R2B



P110B100R4B

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
P110B100R2B	Panel accepts up to 2 RU of punchdown bases.	2	1	10
P110B100R4B	Panel accepts up to 4 RU of punchdown bases.	4	1	10

[^] One rack space = 44.45mm
Includes mounting screws

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

- Exceeds 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
- Ideal for use in cross connects and consolidation point applications



P110B100R2



P110B100R4WJ

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
P110B100R2	Two 100 pair bases premounted to panel.	2	1	10
P110B100R4WJ	Two 100 pair bases with jumper troughs premounted to panel.	4	1	10

[^] One rack space = 44.45mm
Includes mounting screws.
Termination tool available on page 83.
For connecting blocks see page 80.
For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

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
- Provide pre-packaged components necessary for termination
- Includes required quantity of bases and connecting blocks, label holders and labels
- Available with 4 or 5-pair connecting blocks



P110B1004R2



P110B1004R4WJ

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
Rack Mount Panel Kit with Bases and Connecting Blocks				
P110B1004R2	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
P110B1005R2	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

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
Rack Mount Panel Kit with Bases, Connecting Blocks and Jumper Troughs				
P110B1004R4WJ	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
P110B1005R4WJ	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 = 44.45mm
Includes mounting screws.
Termination tool available on page 83.



PAN-PUNCH™ 110 Category 5e Tower System

- 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



P110KT300

Part Number	Part Description	Std. Pkg. Qty.
PAN-PUNCH™ 300 Pair Tower Kits		
P110KT3004	Convenient packaging includes all of the components required to completely wire a 110 base.	1
P110KT3005		1
PAN-PUNCH™ 900 Pair Tower Kits		
P110KT9004	Convenient packaging includes all of the components required to completely wire a 110 base.	1
P110KT9005		1
PAN-PUNCH™ Towers		
P110T300	300 pair tower. Components sold separately.	1
P110T900	900 pair tower. Components sold separately.	1

Each tower system contains adequate connecting blocks to complete each 25-pair wiring strip. Example: P110KT3004 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 83.

Cable requirement: terminates most 22-26 AWG solid or stranded IWC wire with a 1.27mm OD, either PVC or LSZH rated.

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com



Vertical Cable Managers for Tower Systems

- 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	Colour	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			
P110VCM900	Mounts adjacent to 900 pair tower system.	Black	1
Vertical Cable Manager For Use With Backboard Mounting			
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

UL LISTED **SR** **19" Rack Mount Bracket Kits**

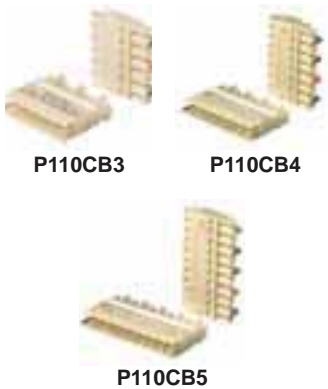
- Used to attach Tower Systems and Vertical Cable Managers to 19"
- Use two towers side by side or a tower and a vertical wire manager side by side
- Includes brackets and mounting screws



Part Number	Part Description	Std. Pkg. Qty.
P110TB300	Kit for 300-pair tower or vertical wire management.	1
P110TB900	Kit for 900-pair tower or vertical wire management.	1

UL LISTED **SR** **PAN-PUNCH™ 110 Category 5e Connecting Blocks**

- 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 colour-coded wiring slots ease wiring
- Can be used with single or multiple punchdown tools
- Can be utilised with discreet wires or PAN-PUNCH™ patch cord connector
- Constructed of UL 94V-0 high impact polycarbonate material
- Patented single piece robust construction



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

Termination tool available on page 83.

Cable requirement: terminates most 22-26 AWG solid or stranded IWC wire with a 1.27mm max OD, either PVC or LSZH 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 colour coded wiring strip



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
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
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		
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 1.27mm max OD, either PVC or LSZH rated.



Jumper Troughs

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



Part Number	Part Description	Std. Pkg. Qty.
P110JTW-X	Jumper trough with legs	10
P110JT-X	Jumper trough	10

Punchdown Designation Label Holder



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
P110LH	Label holder snaps into standard and high density 110 bases	6	60

Component Labels for 110 Punchdown Designation Label Holders

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Punchdown System Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
P110LH	C750X050Y1J	C750X050Y1C

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

‡For non-adhesive labelling solution, do not remove liner from label.

GP6™ PLUS Patch Cord Assemblies



GPPC4IG



GPPC4IG*A



GPPC4IG*B

Part Number	Part Description	Length M	Std. Pkg. Qty.	Std. Ctn. Qty.
GPPC4IG2M	One 4 pair GP6™ PLUS Connector on each end.	2	1	10
GPPC4IG2MA	One 4 pair GP6™ PLUS Connector wired to a RJ45 PAN-PLUG 568A Wiring.	2	1	10
GPPC4IG3MA		3	1	10
GPPC4IG2MB	One 4 pair GP6™ PLUS Connector wired to a RJ45 PAN-PLUG™ 568B Wiring.	2	1	10
GPPC4IG3MB		3	1	10

Self-Laminating 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	PANTHER™ LS8 Hand-Held Thermal Printer
All GPPC4IG*	S100X125FAJ	S100X125VAC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

GIGA-PUNCH™ 1 and 2 Pair Patch Cord Assemblies

- Factory assembled patch cord assembly
- Ideal for use in cross connect applications
- Available in a variety of lengths



GPPC1G



GPPC2G

Part Number	Part Description	Length M	Std. Pkg. Qty.	Std. Ctn. Qty.
GPPC1G2M	One 1 pair <i>GIGA-PUNCH™</i> Connector on each end. Meets Category 5e performance requirements.	2	1	10
GPPC1G3M		3	1	10
GPPC2G2M	One 2 pair <i>GIGA-PUNCH™</i> Connector on each end. Meets Category 5e performance requirements.	2	1	10

Self-Laminating Labels for *GIGA-PUNCH™* 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	<i>PANTHER™</i> LS8 Hand-Held Thermal Printer
All GPPC*	S100X125FAJ	S100X125VAC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

PAN-PUNCH™ Punchdown Tools and Accessories

- Terminate wires on both cable and cross-connect sides of 110 connecting blocks
- Reversible blade provides option of terminating without cutting wire
- Five 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 Blade			
PDH110M	Replacement head assembly for 5-pair punchdown tool.	1	10
Replacement Head Assembly			
PDB110M	Replacement blade for 5-pair punchdown tool.	1	10
Single Punchdown Tool			
PDT110	Punchdown tool and blade for 110 style IDCs.	1	—
Replacement Blade			
PDTH110	Replacement blade for single pair punchdown tool.	1	—



PAN-PUNCH™ 110 Patch Connectors

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



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
P110PC1-X	Terminates 1 pair, 24 AWG solid or stranded cable.	10	100
P110PC2-X	Terminates 2 pairs, 24 AWG solid or stranded cable.	10	100
P110PC3-X	Terminates 3 pairs, 24 AWG solid or stranded cable.	10	100
P110PC4-X	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
- Available in a variety of lengths



Part Number	Part Description	Length M	Std. Pkg. Qty.	Std. Ctn. Qty.	
P110PC1IG.5M	1-pair 110 connector on each end. Meets Category 3 performance requirements.	.5	1	10	
P110PC1IG1M		1	1	10	
P110PC1IG1.5M		1.5	1	10	
P110PC1IG2M		2	1	10	
P110PC1IG3M		3	1	10	
P110PC1IG5M		5	1	10	
P110PC1IG6M		6	1	10	
P110PC2IG.5M	2-pair 110 connector on each end. Meets Category 5 performance requirements.	.5	1	10	
P110PC2IG1M		1	1	10	
P110PC2IG1.5M		1.5	1	10	
P110PC2IG2M		2	1	10	
P110PC2IG3M		3	1	10	
P110PC2IG5M		5	1	10	
P110PC4IG1M	4-pair 110 connector on each end. Meets Category 5e performance requirements.	1	1	10	
P110PC4IG2M		2	1	10	
P110PC4IG3M		3	1	10	
P110PC4IG5M		5	1	10	
P110PC4IG1MA		4-pair 110 connector to PAN-PLUG™ RJ45 modular plug - T568A wired. Meets Category 5e performance requirements.	1	1	10
P110PC4IG2MA			2	1	10
P110PC4IG3MA	3		1	10	
P110PC4IG5MA	5		1	10	
P110PC4IG1MB	4-pair 110 connector to PAN-PLUG™ RJ45 modular plug - T568B wired. Meets Category 5e performance requirements.		1	1	10
P110PC4IG2MB		2	1	10	
P110PC4IG3MB		3	1	10	
P110PC4IG5MB		5	1	10	

For other lengths replace last number in part number with desired metre length 0.5, 1, 1.5, 2, 3, 5 or 6.

Self-Laminating Labels for GIGA-PUNCH™ 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	PANTHER™ LS8 Hand-Held Thermal Printer
P110PC1&2	S100X125FAJ	S100X125VAC
P110PC4	S100X150FAJ	S100X150VAC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

PANDUIT™ TX™ 5500 Category 5e UTP Copper Cable

- Category 5e UTP Cable constructed with 24 AWG copper conductors with Polyethylene insulation
- 4 twisted pairs are laid into a flame retardant PVC or LSZH jacket
- Exceeds ISO/IEC 11801 2nd Edition Class D and TIA/EIA-568-B.2 standards
- Cable is placed in 305m boxes



Part Number	Part Description	Cable Colour	Cable Length Metre	Std. Pkg. Qty.	Std. Pkt. Qty.
PVC					
PUC5504LG-E	4 Pairs 24AWG UTP copper cable with PVC outer jacket	Light Grey	305	1 box	20 boxes
LSZH					
PUL5504WH-E	4 Pairs 24AWG UTP copper cable with LSZH outer jacket	White	305	1 box	20 boxes

PANDUIT TX™ 5500 Category 5e FTP Copper Cable

- Category 5e FTP Cable constructed with 24 AWG copper conductors with Polyethylene insulation
- 4 twisted pairs are wrapped in foil and covered by an over-all metal braid
- Outer jacket is constructed with flame retardant PVC or LSZH material
- Exceeds ISO/IEC 11801 2nd Edition Class D and TIA/EIA-568-B.2 standards
- Cable is placed on 500m Reels



Part Number	Part Description	Cable Colour	Cable Length Metre	Std. Pkg. Qty.	Std. Pkt. Qty.
PVC					
PFC5504LG-ED	4 Pairs 24AWG FTP copper cable with PVC outer jacket	Light Grey	500	1 reel	20 boxes
LSZH					
PFL5504DG-ED	4 Pairs 24AWG FTP copper cable with LSZH outer jacket	Dark Grey	500	1 reel	20 boxes

PANDUIT TX™ 5500 Category 5e S/FTP Copper Cable

- Category 5e FTP Cable constructed with 24 AWG copper conductors with Polyethylene insulation
- 4 twisted pairs are wrapped in foil and covered by an over-all metal braid
- Outer jacket is constructed with flame retardant PVC or LSZH material
- Exceeds ISO/IEC 11801 2nd Edition Class D and TIA/EIA-568-B.2 standards
- Cable is placed on 500m Reels



Part Number	Part Description	Cable Colour	Cable Length Metre	Std. Pkg. Qty.	Std. Pkt. Qty.
PVC					
PSFC5504LG-ED	4 Pairs 24AWG SFTP copper cable with PVC outer jacket	Light Grey	500	1 reel	20 boxes
LSZH					
PSFL5504DG-ED	4 Pairs 24AWG SFTP copper cable with LSZH outer jacket	Dark Grey	500	1 reel	20 boxes

PANDUIT™ TX™ 6000 Category 6 UTP Copper Cable

- Category 6 UTP Cable constructed with 23 AWG copper conductors with Polyethylene insulation
- 4 twisted pairs are wrapped in foil, separated by a spline, and laid into a flame retardant PVC or LSZH jacket
- Exceeds ISO/IEC 11801 2nd Edition Class E and TIA/EIA-568-B.2-1 standards
- Cable is placed on 500m Reels



Part Number	Part Description	Cable Colour	Cable Length Metre	Std. Pkg. Qty.	Std. Pkt. Qty.
PVC					
PFC6004LG-ED	4 Pairs 23 AWG FTP copper cable with PVC outer jacket	Light Grey	500	1 reel	6 reels
LSZH					
PFL6004DG-ED	4 Pairs 23 AWG FTP copper cable with LSZH outer jacket	Dark Grey	500	1 reel	6 reels

PANDUIT™ TX™ 6000 Category 6 FTP Copper Cable

- Category 6 FTP Cable constructed with 24 AWG copper conductors with Polyethylene insulation
- 4 twisted pairs are wrapped in foil, separated by a spline, and laid into a flame retardant PVC or LSZH jacket
- Exceeds ISO/IEC 11801 2nd Edition Class E and TIA/EIA-568-B.2-1 standards
- Cable is placed on 500m Reels



Part Number	Part Description	Cable Colour	Cable Length Metre	Std. Pkg. Qty.	Std. Pkt. Qty.
PVC					
PFC6004LG-ED	4 Pairs 24 AWG FTP copper cable with PVC outer jacket	Light Grey	500	1 reel	6 reels
LSZH					
PFL6004DG-ED	4 Pairs 24 AWG FTP copper cable with LSZH outer jacket	Dark Grey	500	1 reel	6 reels

PANDUIT™ TX™ 6000 Category 6 SFTP Copper Cable

- Category 6 SFTP Cable constructed with 24 AWG copper conductors with Polyethylene insulation
- 4 twisted pairs are wrapped in foil, covered by a metal braid and separated by a spline
- Cable outer jacket is constructed with a flame retardant PVC or LSZH material
- Exceeds ISO/IEC 11801 2nd Edition Class E and TIA/EIA-568-B.2-1 standards
- Cable is placed on 500m Reels



Part Number	Part Description	Cable Colour	Cable Length Metre	Std. Pkg. Qty.	Std. Pkt. Qty.
PVC					
PSFC6004LG-ED	4 Pairs 24 AWG SFTP copper cable with PVC PVC outer jacket	Grey	500	1 reel	6 reels
LSZH					
PSFL6004DG-ED	4 Pairs 24 AWG SFTP copper cable with LSZH outer jacket	Dark Grey	500	1 reel	6 reels

PANDUIT Tx6™ 10GIG™ UTP Copper Cable

- The 10GIG™ UTP Cable is constructed with 23 AWG copper conductors with Polyethylene insulation
- 4 twisted pairs are separated by a spline and an additional wire separates cables from each other improving ANEXT
- Meets or exceeds ISO/IEC 11801-2nd Edition Class E and TIA/EIA-568-B.2-1 standards
- Cable is placed on 305 metre reels
- Cable outer jacket is constructed with a flame retardant LSZH material



Part Number	Part Description	Cable Colour	Cable Length Metre	Std. Pkg. Qty.	Std. Plt. Qty.
LSZH					
PUL6X04WH-E	4 Pairs 23 AWG UTP copper cable with LSZH outer jacket	White	305	1 reel	-

PANDUIT TX™ 7000 10GIG™ Category 7 600 MHz S-STP Copper Cable

- Category 7 S-STP Cable constructed with 23 AWG copper conductors with Polyethylene insulation
- 4 twisted pairs are individually wrapped in foil
- Cable outer jacket is constructed with a flame retardant LSZH material
- Meets or exceeds ISO/IEC 11801 2nd Edition Class E and TIA/EIA-568-B.2-1 standards
- Cable is placed on 500m Reels



Part Number	Part Description	Cable Colour	Cable Length Metre	Std. Pkg. Qty.	Std. Plt. Qty.
LSZH					
PSFL6004DG-ED	4 Pairs 23 AWG S-STP copper cable with LSZH outer jacket	Dark Grey	500	1 reel	6 reels

NOTES

FIBRE CONNECTORS, ENCLOSURES AND PATCH CORDS

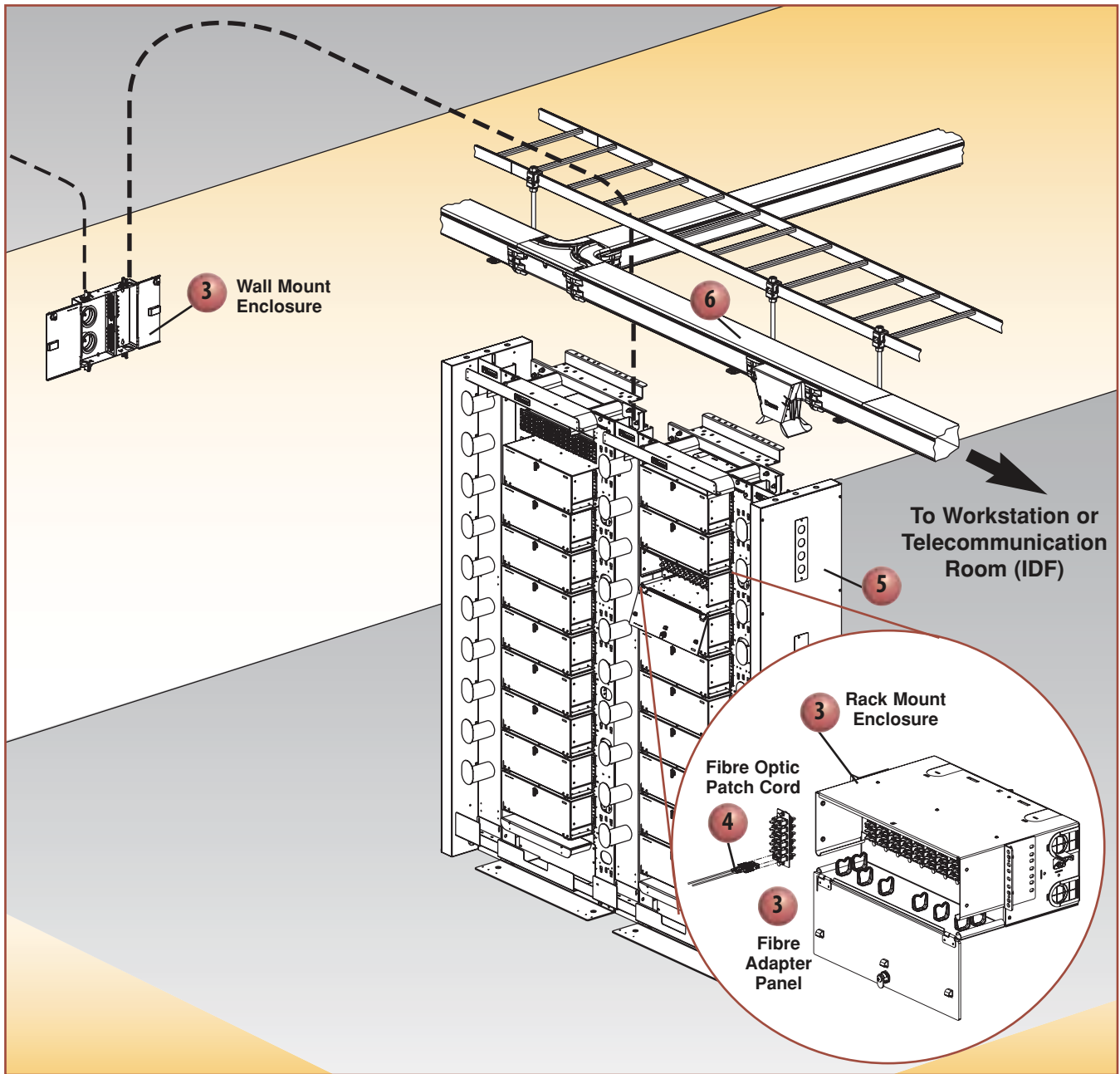
PANDUIT™ offers a full line of innovative fibre connectivity products that meet the most demanding industry requirements for data and telecommunication applications. *PANDUIT* fibre systems provide modular solutions for applications including LANs, Public Networks, Storage Area Networks, Fibre-to-the-desk and 10Gb/s Ethernet. End-to-end high performance solutions are available for central offices, data centers, telecommunication rooms, workstations, and entrance facilities.



- **Adaptable system design provides flexibility for current and future network growth**
- **Modular high-density design maximises valuable space and simplifies system updates**
- **Compatible with *MINI-COM™* products for complete modularity**
- **Fast, easy field installation of system components at the lowest installed cost**
- **Creates a complete fibre management system that effectively manages fibre optic connectivity**
- **Complete line of fibre connectivity to fit your specific network strategy**

The *PANDUIT* fibre system includes a diverse selection of connectors, adapter modules, adapter panels, enclosures, patch cords, cable assemblies and accessories for both singlemode and multimode applications. These fibre system components provide the greatest value by assuring reliability and providing the foundation for future network growth. Achieve total fibre integration now and for the future by installing *PANDUIT* fibre end-to-end system solutions.

Fibre Optic Connectors, Enclosures and Patch Cords Roadmap



1 Fibre Optic Connectors, FJ™ Jack Modules and Plugs SC, ST*, LC, FJ (pages 95 - 97)



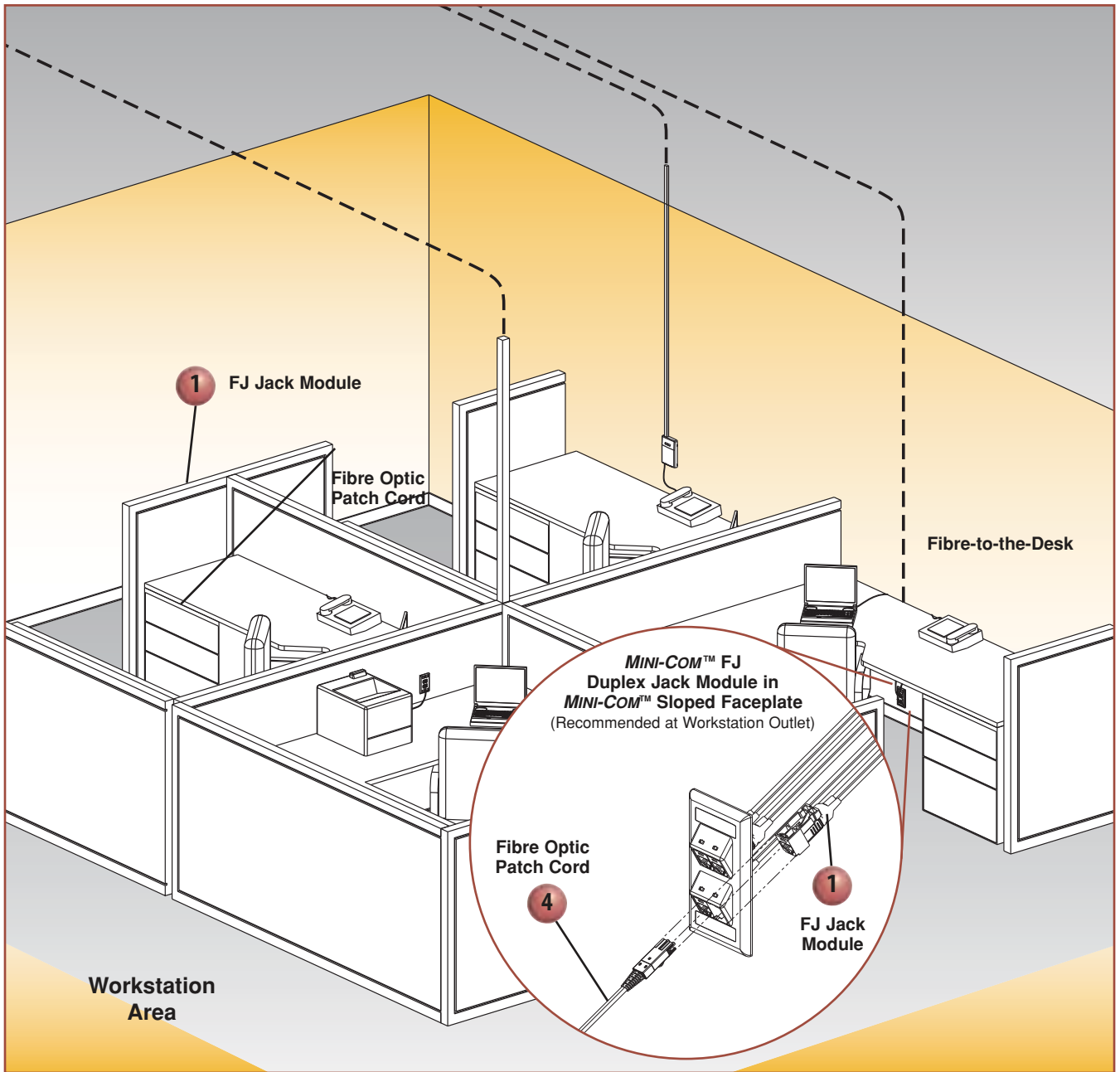
2 Fibre Optic Adapters SC, LC (pages 95 - 98)



3 Fibre Optic Enclosures, Trays, Fibre Adapter Panels and Pre-terminated Cassettes (pages 106-117)



* ST is a registered trademark of Lucent Technologies



4

Fibre Optic Patch Cords and Cable Assemblies
(pages 118-127)



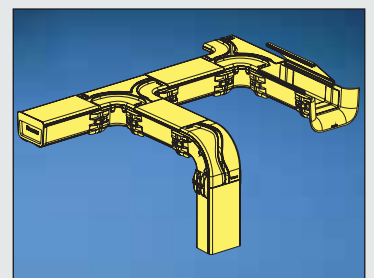
5

Racks and Cable Management
(pages 131-157)



6

Fibre Routing
(pages 195-231)



OPTICAM™ ST* Fibre Optic Connectors - Field Polish

- FOCIS-2 TIA/EIA-568-B.3 compatible connector
- Insertion loss: 0.15dB typical (multimode), 0.20dB typical (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 fibre, one boot for 3mm jacketed cable and one dust cap
- Fibre cable type: tight-buffered recommended
- Fibre cable size: 3.0mm jacketed cable or 900µm buffered fibre
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings)
- Field polish termination — PANDUIT™ recommends anaerobic adhesive on page 109
- Use Field Polish Termination Kit (FJKITG) on page 109



Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
FSTMABL	ST* multimode fibre optic connector — 62.5/125µm or 50/125µm fibre.	Black	1	10
FSTMARD		Red	1	10
FSTSABU	ST* singlemode fibre optic connector.	Blue	1	10

ST* OPTI-CRIMP™ Fibre Optic Connectors - Pre-polished Crimp

- FOCIS-2 TIA/EIA-568-B.3 compatible connector
- Insertion loss: 0.3dB typical (62.5/125m), 0.35dB typical (50/125m)
- 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
- ST OPTI-CRIMP™ connectors and crimp tool allow visual verification of optimal continuity during crimp termination with the FVFLKIT Visual Fault Locator Kit (included in FJMVKIT Termination Kit)
- Each connector includes connector body/ferrule assembly with pre-polished fibre stub, spring, bayonet, crimp sleeve, one boot for 900m buffered fibre, one boot for 3mm jacketed cable and one dust cap
- Fibre cable type: tight-buffered only
- Fibre cable size: 3.0mm jacketed cable or 900µm tight-buffered fibre
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings)
- Use OPTI-CRIMP™ Termination Kit (FJMVKIT) on page 107



Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
FSTMABL	ST* OPTI-CRIMP™ 62.5/125µm multimode fibre optic connector	Black	1	10
FSTMARD		Red	1	10
FSTM50BL	ST* OPTI-CRIMP™ 50/125µm multimode fibre optic connector	Black	1	10
FSTM50RD		Red	1	10

NEW! MINI-COM™ ST* Fibre Optic Adapter Modules

- FOCIS-2 TIA/EIA-568-B.3 compatible adapter
- Compatible with MINI-COM™ products for complete modularity
- Can be used with multimode or singlemode connectors and patch cords
- MINI-COM™ ST* Simplex Adapter Modules are commonly used with MINI-COM™ Patch Panels
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are required for singlemode performance
- ST* Simplex Adapters are also available in patch panels or fibre adapter panels to provide a complete ST* system solution



Part Number	Part Description	No. of Module Spaces	Module Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMSTAW	Module supplied with one ST* multimode fibre optic adapter with phosphor bronze split sleeve.	1	Arctic White	1	10
CMSTZBU	Module supplied with one ST* singlemode fibre optic adapter with zirconia ceramic split sleeve.	1	Blue	1	10

‡ For other colours replace suffix AW (Arctic White) or BU (Blue) with BL (Black), IW (Off White), or EI (Electric Ivory).*ST is a registered trademark of Lucent Technologies

*ST is a registered trademark of Lucent Technologies

NEW!

LC OPTICAM™ Fibre Optic Connectors – Pre-Polished Cam Termination

- TIA/EIA-604 FOCIS-10 compatible connectors
- Exceed TIA/EIA-568-B.3 requirements
- Insertion loss: .40dB typical (multimode and singlemode)
- Return loss: >20dB (multimode), >50dB (singlemode)
- Spring-loaded “Senior” rear pivot latch LC connector
- Quick installation, greater than 50% faster than conventional epoxy connectors, with high performance/yield
- Cam termination design allows multiple field fibre re-terminations
- Factory pre-polished fibre endface simplifies termination method over standard field polish connectors
- No consumable materials required
- Non-optical disconnect maintains data transmission under tensile loads for jacketed cable
- Mechanical crimp cable retention consistently provides higher than industry standard cable retention
- Cam activated fibre and buffer clamp mechanisms provide superior fibre and buffer retention — less sensitivity to fibre tensile loading
- No separate clamps, tools or steps are required to secure both the fibre and the buffer
- Fibre cable type: tight-buffered only
- Fibre cable size: 900µm tight-buffered fibre with included boot(s); 1.6mm – 2.0mm and 3.0mm jacketed cable with available OPTICAM™ 1.6mm/2.0mm and 3.0mm Boot(s) — 10 per package
- Ferrule type: 1.25mm zirconia ceramic (highest durability for repeated matings)
- Available visual fault locator integrated into the termination tool (OCTT) to simplify tooling and termination
- Use one of the Pre-Polished Termination Kits on page 106



FLCDMCXAQ



FLCDMC5BL



FLCSCBU



FLCCLIPBL-L

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
LC OPTICAM™ 10GIG™ 50/125µm Multimode Fibre Optic Connectors				
FLCSMCXAQ	LC OPTICAM™ 10GIG™ 50/125µm multimode simplex fibre optic connector for 900µm tight-buffered fibre installation.	Aqua	1	10
FLCDMCXAQ	LC OPTICAM™ 10GIG™ 50/125µm multimode duplex fibre optic connector for 900µm tight-buffered fibre installation.	Aqua	1	10
LC OPTICAM™ 50/125µm Multimode Fibre Optic Connectors				
FLCSMC5BL	LC OPTICAM™ 50/125µm multimode simplex fibre optic connector for 900µm tight-buffered fibre installation.	Black	1	10
FLCDMC5BL	LC OPTICAM™ 50/125µm multimode duplex fibre optic connector for 900µm tight-buffered fibre installation.	Black	1	10
LC OPTICAM™ 62.5/125µm Multimode Fibre Optic Connectors				
FLCSMC6BL	LC OPTICAM™ 62.5/125µm multimode simplex fibre optic connector for 900µm tight-buffered fibre installation.	Black	1	10
FLCDMC6BL	LC OPTICAM™ 62.5/125µm multimode duplex fibre optic connector for 900µm tight-buffered fibre installation.	Black	1	10
LC OPTICAM™ Singlemode Fibre Optic Connectors				
FLCSSCBU	LC OPTICAM™ singlemode simplex fibre optic connector for 900µm tight-buffered fibre installation.	Blue	1	10
FLCDSCBU	LC OPTICAM™ singlemode duplex fibre optic connector for 900µm tight-buffered fibre installation.	Blue	1	10
OPTICAM™ 1.6/2.0mm Boots				
FXCBT2AQ-X	OPTICAM™ 10GIG™ 1.6/2.0mm boot.	Aqua	10	100
FMCBT2BL-X	OPTICAM™ multimode 1.6/2.0mm boot.	Black	10	100
FSCBT2BU-X	OPTICAM™ singlemode 1.6/2.0mm boot.	Blue	10	100
OPTICAM™ 3.0mm Boots				
FXCBT3AQ-X	OPTICAM™ 10GIG™ 3.0mm boot.	Aqua	10	100
FMCBT3BL-X	OPTICAM™ multimode 3.0mm boot.	Black	10	100
FSCBT3BU-X	OPTICAM™ singlemode 3.0mm 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	—

NEW! **SC OPTICAM™ Fibre Optic Connectors – Pre-Polished Cam Termination**

- TIA/EIA-604 FOCIS-3 compliant connectors
- Exceed TIA/EIA-568-B.3 requirements
- Insertion loss: .40dB typical (multimode and singlemode)
- Return loss: >20dB (multimode), >50dB (singlemode)
- Quick installation, greater than 50% faster than conventional epoxy connectors, with high performance/yield
- Cam termination design allows multiple field fibre re-terminations
- Factory pre-polished fibre endface simplifies termination method over standard field polish connectors
- No consumable materials required; user friendly
- Non-optical disconnect maintains data transmission under tensile loads for jacketed cable
- Mechanical crimp cable retention consistently provides higher than industry standard cable retention
- Cam activated fibre and buffer clamp mechanisms provide superior fibre and buffer retention — less sensitivity to fibre tensile loading
- No separate clamps, tools or steps are required to secure both the fibre and the buffer
- Fibre cable type: tight-buffered only
- Fibre cable size: 900µm tight-buffered fibre with included boot(s); 1.6mm – 2.0mm and 3.0mm jacketed cable with available OPTICAM™ 1.6mm/2.0mm and 3.0mm Boot(s) — 10 per package
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings)
- Available visual fault locator is integrated into the termination tool (OCTT) to simplify tooling and termination
- Use one of the Pre-Polished Termination Kits on page 106



FSCMCXAQ



FSCDMC6BL



FSCSCBU



FSCCLIP-L

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
SC OPTICAM™ 10GIG™ 50/125µm Multimode Fibre Optic Connectors				
FSCMCXAQ	SC OPTICAM™ 10GIG™ 50/125µm multimode simplex fibre optic connector for 900µm tight-buffered fibre installation.	Aqua	1	10
FSCDMCXAQ	SC OPTICAM™ 10GIG™ 50/125µm multimode duplex fibre optic connector for 900µm tight-buffered fibre installation.	Aqua	1	10
SC OPTICAM™ 50/125µm Multimode Fibre Optic Connectors				
FSCMC5BL	SC OPTICAM™ 50/125µm multimode simplex fibre optic connector for 900µm tight-buffered fibre installation.	Black	1	10
FSCDMC5BL	SC OPTICAM™ 50/125µm multimode duplex fibre optic connector for 900µm tight-buffered fibre installation.	Black	1	10
SC OPTICAM™ 62.5/125µm Multimode Fibre Optic Connectors				
FSCMC6BL	SC OPTICAM™ 62.5/125µm multimode simplex fibre optic connector for 900µm tight-buffered fibre installation.	Black	1	10
FSCMPC6BL	SC OPTICAM™ polymer 62.5/125µm multimode simplex fibre optic connector for 900µm tight-buffered fibre installation.	Black	1	10
FSCDMC6BL	SC OPTICAM™ 62.5/125µm multimode duplex fibre optic connector for 900µm tight-buffered fibre installation.	Black	1	10
SC OPTICAM™ Singlemode Fibre Optic Connectors				
FSCSCBU	SC OPTICAM™ singlemode simplex fibre optic connector for 900µm tight-buffered fibre installation.	Blue	1	10
OPTICAM™ 1.6/2.0mm Boots				
FXCBT2AQ-X	OPTICAM™ 10GIG™ 1.6/2.0mm boot.	Aqua	10	100
FMCBT2BL-X	OPTICAM™ multimode 1.6/2.0mm boot.	Black	10	100
FSCBT2BU-X	OPTICAM™ singlemode 1.6/2.0mm boot.	Blue	10	100
OPTICAM™ 3.0mm Boots				
FXCBT3AQ-X	OPTICAM™ 10GIG™ 3.0mm boot.	Aqua	10	100
FMCBT3BL-X	OPTICAM™ multimode 3.0mm boot.	Black	10	100
FSCBT3BU-X	OPTICAM™ singlemode 3.0mm boot.	Blue	10	100
SC Duplex Clip				
FSCCLIP-L	SC duplex clip for duplexing two simplex PANDUIT™ SC multimode or singlemode connectors.	Black	50	—

SC Fibre Optic Connectors - Field Polish

- FOCIS-3 TIA/EIA-568-B.3 compliant connector
- Insertion loss: 0.10dB typical (multimode), 0.15dB (singlemode)
- Return loss: >20dB (multimode), >40dB (singlemode)
- Non-optical disconnect maintains data transmission under tensile loads (jacketed cable only)
- 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 connector includes inner housing assembly, outer housing, crimp sleeve, one boot for 900µm buffered fibre, one boot for 3mm jacketed cable and one dust cap
- Fibre cable type: tight-buffered recommended
- Fibre cable size: 3.0mm jacketed cable or 900µm buffered fibre
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings)
- Field polish termination — PANDUIT™ recommends anaerobic adhesive on page 109
- Use Field Polish Termination Kit (FJKITG) on page 109



Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
FSCMBL	SC multimode fibre optic connector — 62.5/125µm or 50/125µm fibre	Black	1	10
FSCMRD		Red	1	10
FSCSBU	SC singlemode fibre optic connector.	Blue	1	10
FSCM2.0BL	SC multimode simplex fibre optic connector for 1.6mm – 2.0mm jacketed cable or 900µm buffered fibre installation.	Black	1	10
FSCM2.0RD	SC multimode simplex fibre optic connector for 1.6mm – 2.0mm jacketed cable or 900µm buffered fibre installation.	Red	1	10
FSCDM	SC multimode duplex fibre optic connector for 3.0mm jacketed cable installation.	Red & Black	1	10
FSCS2.0BU	SC singlemode simplex fibre optic connector for 1.6mm – 2.0mm jacketed cable or 900µm buffered fibre installation.	Blue	1	10

To comply with industry standards the connector housing is blue for all singlemode connectors, and electric ivory for all multimode connectors.

NEW! SC Fibre Optic Adapters

- FOCIS-3 TIA/EIA-568-B.3 compliant adapter
- 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 singlemode performance
- Short flange design for improved modularity and higher density usage
- Adapters can be used with multimode or singlemode connectors and patch cords
- QC number and split sleeve material laser marked on every adapter assures 100% manufacturer traceability and quick and easy identification of split sleeve material
- SC Simplex and Duplex Adapters are also available in *MINI-COM*™ modules on page 9, and in patch panels or fibre adapter panels to provide a complete SC system solution



Part Number	Part Description	Adapter Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
FADSCEI-L	SC duplex fibre optic adapter with phosphor bronze split sleeves.	Electric Ivory	50	100
FADSCZBU-L	SC duplex fibre optic adapter with zirconia ceramic split sleeves.	Blue	50	100
FASSCEI-L	SC simplex fibre optic adapter with phosphor bronze split sleeves.	Electric Ivory	50	100
FASSCZBU-L	SC simplex fibre optic adapter with zirconia ceramic split sleeves.	Blue	50	100

SC 10GIG™ Multimode Fibre Optic Adapters

FASSCAQ-L	SC 10GIG™ simplex multimode fibre optic adapter with phosphor bronze split sleeve.	Aqua	1	10
FASSCZAQ-L	SC 10GIG™ simplex multimode fibre optic adapter with zirconia ceramic split sleeve.	Aqua	1	10
FADSCAQ-L	SC 10GIG™ duplex multimode fibre optic adapter with phosphor bronze split sleeves.	Aqua	1	10
FADSCZAQ-L	SC 10GIG™ duplex multimode fibre optic adapter with zirconia ceramic split sleeves.	Aqua	1	10

SC APC Singlemode Fibre Optic Adapters

FASSCZAG-L	SC APC simplex singlemode fibre optic adapter with zirconia ceramic split sleeve.	Green	50	100
FADSCZAG-L	SC APC duplex singlemode fibre optic adapter with zirconia ceramic split sleeves.	Green	50	100

MINI-COM™ SC Fibre Optic Adapter Modules

- FOCIS-3 TIA/EIA-568-B.3 compliant adapter
- Compatible with *MINI-COM™* products for complete modularity
- Improved protective cap fully surrounds split sleeve opening
- Can be used with multimode or singlemode connectors and patch cords
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for singlemode performance
- QC number and split sleeve material laser marked on every adapter assures 100% traceability and quick and easy identification of split sleeve material
- *MINI-COM™* SC Simplex Adapter Modules are commonly used with *MINI-COM™* Patch Panels
- *MINI-COM™* SC Simplex Adapter Modules are commonly used with *MINI-COM™* Surface Mount Boxes
- SC Simplex and Duplex Adapters are also available separately, and in patch panels or fibre adapter panels to provide a complete SC system solution



CMDEISC



CMSBUSCZ

Part Number	Part Description	No. of Module Spaces	Module Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMDEISCAW	Module supplied with one SC duplex fibre optic adapter with phosphor bronze split sleeves.	2	Arctic White	1	10
CMDBUSCZBU	Module supplied with one SC duplex fibre optic adapter with zirconia ceramic split sleeves.	2	Blue	1	10
CMSEISCAW	Module supplied with one SC simplex fibre optic adapter with phosphor bronze split sleeve.	1	Arctic White	1	10
CMSBUSCZBU	Module supplied with one SC simplex fibre optic adapter with zirconia ceramic split sleeve.	1	Blue	1	10

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

See page 28 in the Modules section for *MINI-COM™* LC Sr./Jr. Fibre optic adapter modules

LC Simplex Fibre Optic Connectors - Field Polish

- FOCIS-10 TIA/EIA-568-B.3 compatible connector
- Non-optical disconnect maintains data transmission under tensile loads (jacketed cable only)
- Each connector includes connector body/ferrule assemblies, crimp sleeve, one boot for 900m buffered fibre, one boot for 1.6mm or 2.0mm jacketed cable and dust cap
- Fibre cable type: Tight-buffered recommended
- Fibre cable size: 1.6mm or 2.0mm jacketed cable or 900µm buffered fibre
- Ferrule type: 1.25mm zirconia ceramic (highest durability for repeated matings)
- Field polish termination — *PANDUIT™* recommends anaerobic adhesive on page 109
- Use LC Field Polish Termination Kit (FLPKIT)



FLCSMEI



FLCSSBU

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
FLCSMEI	LC multimode simplex fibre optic connector — 62.5/125µm or 50/125µm fibre.	Electric Ivory	1	10
FLCSSBU	LC singlemode simplex fibre optic connector.	Blue	1	10

LC Duplex Fibre Optic Connectors - Field Polish

- FOCIS-10 TIA/EIA-568-B.3 compatible connector
- Non-optical disconnect maintains data transmission under tensile loads (jacketed cable only)
- Each duplex connector includes two connector body/ferrule assemblies, two crimp sleeves, two boots for 1.6mm or 2.0 jacketed cable, two dust caps and one duplexing clip
- Fibre cable type: Tight-buffered recommended
- Fibre cable size: 1.6mm or 2.0mm jacketed cable
- Ferrule type: 1.25mm zirconia ceramic (highest durability for repeated matings)
- Field polish termination — *PANDUIT™* recommends anaerobic adhesive on page 109
- Use LC Field Polish Termination Kit (FLPKIT)



FLCDMEI



FLCDSBU

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
FLCDMEI	LC multimode duplex fibre optic connector — 62.5/125µm or 50/125µm fibre.	Electric Ivory	1	10
FLCDSBU	LC singlemode duplex fibre optic connector.	Blue	1	10

LC Duplex Connectors for 900µm Buffered Fibre

- Include 900µm boots for installation onto 900µm buffered fibre
- Designed for Field Polishing installation
- Require use of LC Field Polish Termination Kit (FLPKIT-W)



FLCDM900EI



FLCDS900BU

Part Number	Part Description	Colour	Std. Pkg. Qty.
FLCDM900EI	LC multimode duplex fibre optic connector for 900µm buffered fibre installation	Electric Ivory	1
FLCDS900BU	LC singlemode duplex fibre optic connector for 900µm buffered fibre installation.	Blue	1
FLCCLIP-L	LC duplex clip for duplexing two simplex <i>PANDUIT™</i> LC field polish multimode or singlemode connectors.	White	50

NEW! LC Sr./Sr. Fibre Optic Adapters

- TIA/EIA-604 FOCIS-10 compatible adapters
- Exceed TIA/EIA-568-B.3 requirements
- Mini duplex adapter design fits into simplex SC adapter opening
- Sr./Sr. (Senior/Senior) adapters have a FOCIS-10 senior adapter interface at each end
- Accepts 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 required for singlemode applications
- LC Simplex and Duplex Adapters are also available in patch panels or fibre adapter panels to provide a complete LC system solution
- LC Duplex Adapters are also available in *MINI-COM™* Modules on page 100



FADSLCEI-L



FADSLCAQ-L



FASSLCZBU-L

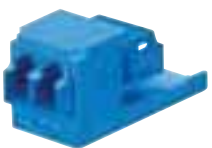
Part Number	Part Description	Adapter Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
LC Sr./Sr. Multimode Fibre Optic Adapters				
FADSLCEI-L	LC Sr./Sr. SFF duplex multimode fibre optic adapter with phosphor bronze split sleeves.	Electric Ivory	50	100
LC Sr./Sr. 10GIG™ Multimode Fibre Optic Adapters				
FASSLCZAQ-L	LC Sr./Sr. 10GIG SFF simplex multimode fibre optic adapter with zirconia ceramic split sleeve.	Aqua	1	10
FADSLCAQ-L	LC Sr./Sr. 10GIG™ SFF duplex multimode fibre optic adapter with phosphor bronze split sleeves.	Aqua	1	10
FADSLCZAQ-L	LC Sr./Sr. 10GIG™ SFF duplex multimode fibre optic adapter with zirconia ceramic split sleeves.	Aqua	1	10
LC Sr./Sr. Singlemode Fibre Optic Adapters				
FADSLCZBU-L	LC Sr./Sr. SFF duplex singlemode fibre optic adapter with zirconia ceramic split sleeves.	Blue	50	100
FASSLCZBU-L	LC Sr./Sr. SFF simplex singlemode fibre optic adapter with zirconia ceramic split sleeve.	Blue	50	100

NEW! *MINI-COM™* LC Sr./Sr. Fibre Optic Adapter Modules

- FOCIS-10 TIA/EIA-568-B.3 compatible adapter
- Mini-duplex adapter design fits into single module space
- Compatible with *MINI-COM™* products for complete modularity
- Sr./Sr. (Senior/Senior) adapter modules have a FOCIS-10 senior adapter interface at each end
- Accepts all FOCIS-10 compatible LC connectors
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements, zirconia ceramic split sleeves are required for singlemode performance
- *MINI-COM™* LC Duplex Adapter Modules are commonly used with *MINI-COM™* Faceplates and Surface Mount Boxes
- LC Simplex and Duplex Adapters are also available separately, and in patch panels or fibre adapter panels to provide a complete LC systems solution



CMDSLC



CMDSLCZ

Part Number	Part Description	No. of Module Spaces	Module Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMDSLCAW	Module supplied with one LC Sr./Sr. mini duplex multimode fibre optic adapter with phosphor bronze split sleeves.	1	Arctic White	1	10
CMDSLCZBU	Module supplied with one LC Sr./Sr. mini duplex singlemode fibre optic adapter with zirconia ceramic split sleeves.	1	Blue	1	10

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

MINI-COM™ FJ OPTI-CRIMP™ Keyed Duplex Jack Modules - Pre-polished Crimp

- Includes all of the same features as the FJ OPTI-CRIMP Jack Modules (listed on page) with the added benefit of mechanical network security
- Insertion loss: 0.3dB typical (62.5/125µm), 0.35dB typical (50/125µm)
- Return loss: >20dB (multimode)
- Mechanical keyed configurations prevent unintentional insertion into segregated network ports
- Colour-coded for network identification
- Corresponding FJ Keyed Plugs found on page 102



FJJSMM5CWBL



FJJSMM5CXRD



FJJSMM5CYOR



FJJSMM5CZYL

Part Number	Part Description	No. of Module Spaces	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
FJJSMM5CWBL	FJ OPTI-CRIMP™ 62.5/125µm keyed (W) multimode duplex fibre optic jack module with phosphor bronze split sleeves.	1	Black	1	10
FJJSMM5CXRD	FJ OPTI-CRIMP™ 62.5/125µm keyed (X) multimode duplex fibre optic jack module with phosphor bronze split sleeves.	1	Red	1	10
FJJSMM5CYOR	FJ OPTI-CRIMP™ 62.5/125µm keyed (Y) multimode duplex fibre optic jack module with phosphor bronze split sleeves.	1	Orange	1	10
FJJSMM5CZYL	FJ OPTI-CRIMP™ 62.5/125µm keyed (Z) multimode duplex fibre optic jack module with phosphor bronze split sleeves.	1	Yellow	1	10
FJJSMM50CWBL	FJ OPTI-CRIMP™ 50/125µm keyed (W) multimode duplex fibre optic jack module with phosphor bronze split sleeves.	1	Black	1	10
FJJSMM50CXRD	FJ OPTI-CRIMP™ 50/125µm keyed (X) multimode duplex fibre optic jack module with phosphor bronze split sleeves.	1	Red	1	10
FJJSMM50CYOR	FJ OPTI-CRIMP™ 50/125µm keyed (Y) multimode duplex fibre optic jack module with phosphor bronze split sleeves.	1	Orange	1	10
FJJSMM50CZYL	FJ OPTI-CRIMP™ 50/125µm keyed (Z) multimode duplex fibre optic jack module with phosphor bronze split sleeves.	1	Yellow	1	10

Can be clearly identified with labels; For complete labelling solutions and product information, reference the Labelling and Administration section on page 349-356 and www.panduit.com

Replacement Ferrule Assemblies for FJ OPTI-CRIMP™ Jack Modules

- Eliminates the need to purchase complete FJ OPTI-CRIMP™ Jack Modules or FJ OPTI-CRIMP™ Keyed Jack Modules if necessary to re-terminate
- Includes ten ferrule assemblies, crimp sleeves and dust caps
- Dust caps are colour-coded: clear for 62.5/125µm and orange for 50/125µm



FJJSMM

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FJJSMMFRL-X	Replacement ferrule assembly, crimp sleeve and clear dust cap for FJ OPTI-CRIMP™ 62.5/125µm multimode duplex jack module.	10	50
FJJSMM50FRL-X	Replacement ferrule assembly, crimp sleeve and orange dust cap for FJ OPTI-CRIMP™ 50/125µm multimode duplex jack module.	10	50

*ST is a registered trademark of Lucent Technologies

MINI-COM™ FJ Duplex Fibre Optic Jack Modules – Field Polish

- FOCIS-6TIA/EIA-568-B.3 compliant connector
- Insertion loss: .1dB typical (multimode), .2dB typical (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
- MINI-COM™ module snaps into or 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 fibre, one boot for 3mm jacketed cable, and one dust cap
- Can be clearly identified with labels below
- Fibre cable type: tight-buffered recommended
- Fibre cable size: 3.0mm jacketed cable or 900µm buffered fibre
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings)
- Corresponding FJ Plugs found on page 102
- Field polish termination — PANDUIT™ recommends anaerobic adhesive on page 109
- Use field Polish Termination Kit (FJKTG) on page 109



FJJGM5C



FJJGS9C

Part Number	Part Description	No. of Module Spaces	Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
FJJGM5CEI	FJ multimode duplex fibre optic jack module with phosphor bronze split sleeves — 62.5/125µm or 50/125µm fibre.	1	Electric Ivory	1	10
FJJGS9CBU	FJ singlemode duplex fibre optic jack module with zirconia ceramic split sleeves.	1	Blue	1	10

To comply with industry standards, the housing, cover and boots are blue for singlemode jack modules and electric ivory for multimode jack modules.

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

Can be clearly identified with labels; For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

MINI-COM™ FJ Keyed Duplex Jack Modules – Field Polish

- Includes all of the same features as the FJ Jack Modules (listed on page 54) with the added benefit of mechanical network security
- Insertion loss: 0.1dB typical (multimode)
- Return loss: >20dB (multimode)
- Mechanical keyed configurations prevent unintentional insertion into segregated network ports
- Colour-coded for network identification



FJJGM5CWBL



FJJGM5CXRD



FJJGM5CYOR



FJJGM5CZYL

Part Number	Part Description	No. of Module Spaces	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
FJJGM5CWBL	FJ keyed (W) multimode duplex fibre optic jack module with phosphor bronze split sleeves — 62.5/125µm or 50/125µm fibre.	1	Black	1	10
FJJGM5CXRD	FJ keyed (X) multimode duplex fibre optic jack module with phosphor bronze split sleeves — 62.5/125µm or 50/125µm fibre.	1	Red	1	10
FJJGM5CYOR	FJ keyed (Y) multimode duplex fibre optic jack module with phosphor bronze split sleeves — 62.5/125µm or 50/125µm fibre.	1	Orange	1	10
FJJGM5CZYL	FJ keyed (Z) multimode duplex fibre optic jack module with phosphor bronze split sleeves — 62.5/125µm or 50/125µm fibre.	1	Yellow	1	10

Can be clearly identified with labels; For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

MINI-COM™ FJ OPTI-CRIMP™ Duplex Jack Modules – Pre-polished Crimp

- FOCIS-6 TIA/EIA-568-B.3 compliant connector
- Insertion loss: 0.3dB typical (62.5/125µm), 0.35dB typical (50/125µm)
- 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
- Mechanical crimp cable retention consistently provides higher than industry standard cable retention
- FJ OPTI-CRIMP jack modules and crimp tool allow visual verification of optimal continuity during crimp termination with the FVFLKIT Visual Fault Locator Kit (included in FJMVKIT Termination Kit)
- RJ-45 small form factor duplex jack module — double the port density in one module space
- MINI-COM™ module snaps into or out of all MINI-COM™ closet products and work area outlets
- Each duplex jack module includes housing, cover, two ferrule assemblies with pre-polished fibre stubs, two crimp sleeves, one boot for 900m buffered fibre, one boot for 3mm jacketed cable, and one dust cap
- Can be clearly identified with labels shown below
- Fibre cable type: tight-buffered only
- Fibre cable size: 3.0mm jacketed cable or 900µm tight-buffered fibre
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings)
- Corresponding FJ Plugs found on page 102
- Use Opti-Crimp Termination Kit (FJMVKIT) on page 107



FJJSMM

Part Number	Part Description	No. of Module Spaces	Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
FJJSMM5CAW	FJ Opti-Crimp 62.5/125µm multimode duplex fibre optic jack module with phosphor bronze split sleeves.	1	Arctic White	1	10
FJJSMM50CAW	FJ Opti-Crimp 50/125µm multimode duplex fibre optic jack module with phosphor bronze split sleeves.	1	Arctic White	1	10

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

Component Labels for MINI-COM™ FJ OPTI-CRIMP Duplex Jack Modules – Pre-polished Crimp

Suggested Label Solutions for TIA/EIA 606-A Compliance		
Jack Module Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
All MINI-COM™ Jack Modules	C138X019FJJ	C138X019FJC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

Replacement Ferrule Assemblies for FJ Field Polish Jack Modules

- Eliminates the need to purchase complete FJ Field Polish Jack Modules or FJ Field Polish Keyed Jack Modules if necessary to re-terminate
- Includes ten ferrule assemblies, crimp sleeves and dust caps



FJJ

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FJJ9FRL-X	Replacement ferrule assembly, crimp sleeve and dust cap for FJ field polish singlemode duplex jack module	10	50
FJJFRL-X	Replacement ferrule assembly, crimp sleeve and dust cap for FJ field polish multimode duplex jack module — 62.5/125µm or 50/125µm fibre.	10	50

FJ Duplex Fibre Optic Plugs – Field Polish

- FOCIS-6 TIA/EIA-568-B.3 compliant connector
- Insertion loss: .1dB typical (multimode), .2dB typical (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
- Fibre cable type: tight-buffered recommended
- Fibre cable size: 3.0mm jacketed cable
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings)
- Corresponding FJ *OPTI-CRIMP™* Jack Modules found on page 99 and FJ Field Polish Jack Modules found on page 109
- Field polish termination — *PANDUIT™* recommends an anaerobic adhesive on page 109
- Use Field Polish Termination Kit (FJKITG) on page 109



Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
FJEPGM5CAW	FJ multimode duplex fibre optic plug — 62.5/125µm or 50/125µm fibre.	Arctic White	1	10
FJEPGS9CBU	FJ singlemode duplex fibre optic plug.	Blue	1	10
FJGCEI	Adapter to mate two FJ Duplex Fibre 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 <i>MINI-COM™</i> Surface Mount Boxes).	Electric Ivory	1	10
FJEPGM2.0CEI	FJ™ multimode duplex fibre optic plug for 1.6mm – 2.0mm jacketed cable installation.	Electric Ivory	1	10
FJEPGS2.0CBU	FJ™ singlemode duplex fibre optic plug for 1.6mm – 2.0mm jacketed cable installation.	Blue	1	10

To comply with industry standards, the housing, insert and boot are blue for singlemode plugs and electric ivory for multimode plugs.

FJ Keyed Duplex Fibre Optic Plugs – Field Polish

- Includes all of the same features as the FJ Plugs (listed above) with the added benefit of mechanical network security
- Insertion loss: 0.1dB typical (multimode)
- Return loss: >20dB (multimode)
- Mechanical keyed configurations prevent unintentional insertion into segregated network ports
- Colour-coded for network identification
- Universal keyed plug available
- Corresponding FJ *OPTI-CRIMP™* Keyed Jack Modules found on page XX and FJ Field Polish Keyed Jack Modules found on page 109



Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
FJEPGM5CWBL	FJ universal keyed (W) multimode duplex fibre optic plug — 62.5/125µm or 50/125µm fibre.	Black	1	10
FJEPGM5CXRD	FJ universal keyed (X) multimode duplex fibre optic plug — 62.5/125µm or 50/125µm fibre.	Red	1	10
FJEPGM5CYOR	FJ universal keyed (Y) multimode duplex fibre optic plug — 62.5/125µm or 50/125µm fibre.	Orange	1	10
FJEPGM5CZYL	FJ universal keyed (Z) multimode duplex fibre optic plug — 62.5/125µm or 50/125µm fibre.	Yellow	1	10
FJEPGM5CQWH	FJ universal keyed (Q) multimode duplex fibre optic plug for universal use for testing purposes — 62.5/125µm or 50/125µm fibre.	White	1	10

FJ – SC Connectors for termination on 1.6mm Fibre Cable

- Include attached crimp sleeve and heat shrink tubing for bundling up the diameter of the 1.6mm -2.0mm jacketed cable to a 3mm diameter
- Additional tools required for termination onto 1.6mm – 2.0mm jacketed cable only:
- FLPT crimp tool crimps smaller diameter crimp sleeve onto 1.6mm - 2.0mm cable
- FHSCT-W (230VAC/50Hz) or FHSCT (110VAC/60Hz) Heat Shrink Curing Tool
- The above tools are included in the FLPKIT-W (Termination Kit for LC Connectors)



FJEPFRL-X

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FSCM2.0BL	MM (62.5/125 micron or 50/125 micron w/black boots)	1	10
FSCM2.0RD	MM (62.5/125 micron or 50/125 micron w/red boots)	1	10
FSCS2.0BU	SM (9/125 micron)	1	10
FJJGM2.0CEI	MM (62.5/125 micron or 50/125 micron)	1	10
FJJGS2.0CBU	SM (9/125 micron)	1	10
FJEPGM2.0CEI	MM (62.5/125 micron or 50/125 micron)	1	10
FJEPGS2.0CBU	SM (9/125 micron)	1	10
FSCMM2.0BL	62.5/125 micron w/black boots	1	10
FSCMM2.0RD	62.5/125 micron w/red boots	1	10
FSCMM502.0BL	50/125 micron w/black boots	1	10
FSCMM502.0RD	50/125 micron w/red boots	1	10

Replacement Ferrule Assemblies for FJ Field Polish Plugs

- Eliminates the need to purchase complete FJ Field Polish Plugs or FJ Field Polish Keyed Plugs if necessary to re-terminate
- Includes ten ferrule assemblies, crimp sleeves and dust caps
- Ferrule housing moulded in blue for singlemode and electric ivory for multimode per industry standard



FJEPFRL-X



FJJFRL-X

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FJJ9FRL-X	Replacement ferrule assembly, crimp sleeve and dust cap for FJ field polish singlemode duplex jack module	10	50
FJJFRL-X	Replacement ferrule assembly, crimp sleeve and dust cap for FJ field polish multimode duplex jack module — 62.5/125µm or 50/125µm fibre.	10	50

LC & SC Duplex Clips Components

- LC and SC Duplex clips allow simplex connectors to be coupled into a duplex solution
- One piece duplex clips have integrated polarity markers to allow quick cable identification and polarity changes
- One pack of LC Duplex clips can duplex 100 Simplex LC connectors
- One pack of SC Duplex clips can duplex 100 Simplex SC connectors



FLCCLIP-L



FSCCLIP-L

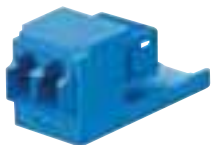
Part Number	Part Description	Std. Pkg. Qty.	Colour
FLCCLIP-L	LC duplex clip for duplexing two simplex PANDUIT™ LC multimode or singlemode connectors	50	White
FSCCLIP-L	SC duplex clip for duplexing two simplex PANDUIT™ SC multimode or singlemode connectors	50	Black

NEW! **MINI-COM™ LC Sr./Jr. Fibre Optic Adapter Modules**

- FOCIS-10 TIA/EIA-568-B.3 compatible adapter
- Mini-duplex adapter design fits into single module space
- Compatible with *MINI-COM™* products for complete modularity
- Sr./Jr. (Senior/Junior) adapter modules have a FOCIS-10 senior adapter interface at the front and a FOCIS-10 junior adapter interface at the back
- Both ends accept all FOCIS-10 compatible LC connectors
- Junior end also accepts fixed ferrule LC connectors



CMDJLCAW



CMDJLCAW

Part Number	Part Description	No. of Module Spaces	Module Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMDJLCAW	Module supplied with one LC Sr./Jr. mini duplex multimode fibre optic adapter with phosphor bronze split sleeves.	1	Arctic White	1	10
CMDJLCAW	Module supplied with one LC Sr./Jr. mini duplex singlemode fibre optic adapter with zirconia ceramic split sleeves.	1	Blue	1	10

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

MINI-COM™ MT-RJ Fibre Optic Adapter Modules

- FOCIS-12 TIA/EIA-568-B.3 compliant adapter
- Compatible with *MINI-COM™* products for complete modularity
- Can be used with multimode connectors and patch cords
- *MINI-COM™* MT-RJ Duplex Adapter Modules are commonly used with *MINI-COM™* Faceplates and Surface Mount Boxes



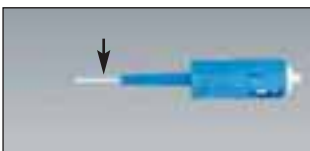
CMMJEI

Part Number	Part Description	No. of Module Spaces	Module Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMMJEI	MT-RJ multimode duplex fibre optic adapter module.	1	Electric Ivory	1	10

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

NEW! **250 Micron Fibre Build-Up Tube Kit**

- Includes 100 build-up tubes and supplemental instructions for terminating *PANDUIT™* Field Polish or *OPTI-CRIMP™* Fibre Optic Connectors onto 250µm coated fibre
- Used with 900µm boots included with connectors and the current fibre optic termination kit



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

MINI-COM™ FC Fibre Optic Adapter Modules

- FOCIS-4 TIA/EIA-568-B.3 compliant adapter
- Compatible with *MINI-COM™* products for complete modularity
- Can be used with multimode or singlemode connectors and patch cords
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are required for singlemode performance
- *MINI-COM™* FC Simplex Adapter Modules are commonly used with *MINI-COM™* Patch Panels
- FC Simplex Adapters are also available in patch panels and fibre adapter panels to provide a complete FC system solution.



CMFC

Part Number	Part Description	No. of Module Spaces	Module Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMFCEI	Module supplied with one FC multimode fibre optic adapter with phosphor bronze split sleeve.	1	Electric Ivory	1	10
CMFCZBU	Module supplied with one FC singlemode fibre optic adapter with zirconia ceramic split sleeve.	1	Blue	1	10

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



MINI-COM™ Blank Module

- Seals off openings in outlet to prevent tampering
- Compatible with *MINI-COM™* modular patch panels, faceplates and surface mount boxes



Part Number	Part Description	No. of Module Spaces	Colour‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CMBAW-X	One position, reserves space for future use.	1	Arctic White	10	50

‡ For other colours replace suffix AW (Arctic White) with EI (Electric Ivory), WH (White), IG (International Grey) or BL (Black).

NEW! Pre-Polished Fibre Optic Termination Kits — *OPTICAM™* and *OPTI-CRIMP™* Connectors

- For PANDUIT™ *OPTICAM™* and *OPTI-CRIMP™* Pre-Polished Connector termination
- No adhesive or electricity required for termination
- Visual fault locator integrated into *OPTICAM™* Termination Tool (OCTT) to simplify tooling and termination
- *OPTICAM™* Termination Tool (OCTT) can be used for visual verification of optimal continuity between the field fibre and the pre-polished fibre stub during *OPTI-CRIMP™* termination with longer patch cord (FVFLPC); FCRP5 tool must be used for mechanical crimp termination
- Modular kits are available if other or previous termination kits or tools are already available



FPPKIT

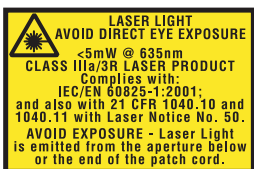
Part Number	Part Description	Std. Pkg. Qty.
Pre-Polished Termination Kit — Terminates <i>OPTICAM™</i> and <i>OPTI-CRIMP™</i> Connectors		
FPPKIT	Tools and consumables necessary for termination of all PANDUIT pre-polished connectors — <i>OPTICAM™</i> and <i>OPTI-CRIMP™</i> connectors.	1
Pre-Polished Conversion Kit — Converts <i>OPTI-CRIMP™</i> Termination Kit for <i>OPTICAM™</i> Termination		
FPPKIT-CV	Converts existing FJMVKIT or FJMKIT to FPPKIT; includes tools required for termination of PANDUIT <i>OPTICAM™</i> Pre-Polished Connectors, in addition to those included in the FJMVKIT or FJMKIT — OCTT Tool, FVFLPC-2.5SM and FVFLPC-1.25SM Patch Cords.	1
Stripping Tools Kit		
FSTLSKIT	Basic stripping tools kit; stripping tools that are included in all PANDUIT fibre optic termination kits — FPPKIT, FJMVKIT, FLPKIT and FJKITG.	1
Pre-Polished Termination Tools Kit		
FPPTTKIT	Tools required for termination of all PANDUIT <i>OPTICAM™</i> and <i>OPTI-CRIMP™</i> Pre-Polished Connectors.	1
Pre-Polished Consumables Refurbishment Kit		
FPPRKIT	Pre-polished consumables kit; includes the same quantities that are included in FPPKIT.	1

Refer to component table below for for items included in kits.

NEW! Components for Pre-Polished Fibre Optic Termination Kits



OCTT



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Stripping Tools (included in FPPKIT and FSTLSKIT)			
CST115	Fibre cable jacket stripper.	1	—
FALC	Alcohol bottle. (contents not included)	1	10
FBFSP	Fibre buffer stripper.	1	10
FSCDVR	Screwdriver.	1	50
FGLS	Safety glasses.	1	10
FTWZR	Tweezers.	1	10
FWBTL	Alcohol bottle. (contents not included)	1	10
FKS	Fibre Kevlar shears.	1	10
FWRKMAT	Fibre safe workmat.	1	10
Pre-Polished Termination Tools (included in FPPKIT and FPPTTKIT)			
FCRP5	Crimp tool (hex sizes: .048" = 1.21mm, .100" = 2.5mm, .128" = 3.25mm, .151" = 3.8mm, .190" = 4.83mm)	1	—
FJQCVR	Fibre cleaver tool.	1	10
OCTT	<i>OPTICAM™</i> termination tool; includes batteries, pouch and 2 saddles for each available <i>OPTICAM™</i> Connector.	1	—
FVFLPC-2.5SM	Patch cord for all <i>OPTICAM™</i> 2.5mm ferrule connectors.	1	10
FVFLPC-1.25SM	Patch cord for all <i>OPTICAM™</i> 1.25mm ferrule connectors.	1	10
FVFLPC	Patch cord for all <i>OPTICAM™</i> Connectors (1 meter long).	1	10
Pre-Polished Consumables (included in FPPKIT and FPPRKIT)			
FWP-C	Cloth wipes.	100	1000
FSWB-C	Cleaning swabs.	100	1000
FST	Safety stickers for fibre scraps.	1	10
PFX-0	Permanent marking pen, fine tip, black ink.	12	144
Replacement Parts			
FJQCVRB	Replacement blade for FJQCVR.	1	10
CD-FCRP5	Die set for FCRP5 tool.	1	—

OPTI-CRIMP™ Fibre Optic Termination Kit – Pre-polished Crimp

- For PANDUIT™ pre-polished crimp connector termination
- No adhesive or electricity required for termination
- Includes FVFLKIT Visual Fault Locator Kit that provides visual verification of optimal continuity between the field fibre and the pre-polished fibre stub during crimp termination
- Includes non-consumable and consumable components
- Also includes stripping templates for PANDUIT OPTI-CRIMP™ connectors and FJ OPTI-CRIMP™ duplex jack modules



FJMVKIT

Part Number	Part Description	Std. Pkg. Qty.
FJMVKIT	Includes all tools and consumables necessary for termination of SC, ST and FJ Opti-Crimp multimode connectors and jack modules (also includes FVFLKIT Visual Fault Locator Kit).	1

Components for OPTI-CRIMP™ Fibre Optic Termination Kit (FJMVKIT)



FVFLKIT

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Non-Consumables			
CST115	Plier nose wire stripper.	1	—
FALC	Alcohol bottle (contents not included)	1	10
FBFSP	Fibre buffer stripper	1	10
FGLS	Safety glasses	1	10
FJQCVR	Fibre cleaver tool	1	10
FKC	Fibre cable strength member scissors	1	10
FSCDVR	Screwdriver	1	50
FCRP5	Universal crimp tool	1	—
FVFLKIT	Visual fault locator kit (includes visual fault locator, belt holster, patch cord, case, batteries and instructions)	1	1

Consumables

FST	Safety stickers for fibre scraps	1	10
FWP-C	Cloth wipes	100	1000
PFX-0	Permanent marking pen, fine tip.	12	144

Replacement Parts

FJQCVRB	Replacement blade for FJQCVR	1	10
CD-FCRP5	FCRP5 die set	1	—
FVFL	Visual fault locator (includes batteries and instructions)	1	—
FVFLPC	Patch cord for FVFL visual fault locator (1 metre long)	1	10

Additional Components 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.	1	—
FHSCT-W	Heat shrink curing tool (230VAC, 50Hz) required for 1.6mm/2.0mm jacketed cable termination.	1	—

NEW! LC Field Polish Fibre Optic Termination Kits

- For PANDUIT™ LC Connector (1.25mm ferrule) field polish termination
- Fast acting adhesive
- Kit provides consumables for terminating up to 100 PANDUIT LC Connectors
- Also includes stripping template for PANDUIT LC Connectors (field polish termination)



FLPKIT

Part Number	Part Description	Std. Pkg. Qty.
LC Field Polish Termination Kits		
FLPKIT	Tools and consumables necessary for termination of LC 1.25mm ferrule field polish multimode and singlemode connectors; includes FHSCT Heat Shrink Curing Tool – 110VAC, 60Hz.	1
FLPKIT-W	Tools and consumables necessary for termination of LC 1.25mm ferrule field polish multimode and singlemode connectors; includes FHSCT-W Heat Shrink Curing Tool – 230VAC, 50Hz.	1
Refurbishment Kit for FLPKIT and FLPKIT-W		
FLPKIT-RFB	Consumables refurbishment kit; includes all of the same consumable items as the FLPKIT and FLPKIT-W LC Field Polish Termination Kits.	1

NEW! Components for LC Field Polish Fibre Optic Termination Kit (FLPKIT)

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Tools			
CST115	Fibre cable jacket stripper.	1	—
FALC	Alcohol bottle. (contents not included)	1	10
FBFSP	Fibre buffer stripper.	1	10
FBFSPM	Miller fibre buffer stripper.	1	10
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.	1	—
FKS	Fibre Kevlar shears.	1	10
FSCRIBE	Carbide scribe.	1	10
FSCRBLD	Replacement blade for carbide scribe.	1	10
FGLS	Safety glasses.	1	10
FLCPAD	Polishing pad and plate (85 durometer).	1	10
FLCPK	LC polishing puck (1.25mm ferrule).	1	—
FSCDVR	Screwdriver.	1	50
FSCOPE	Fibre inspection microscope (200X).	1	—
FLCASCP	1.25mm adapter for FSCOPE.	1	—
FTWZR	Tweezers.	1	10
FWBTL	Water bottle. (contents not included)	1	10
FPWIRE	Piano wire.	1	10
FWRKMAT	Fibre safe workmat.	1	10
Consumables			
FJPMR	Primer (50ml).	1	10
FJPXY	Anaerobic adhesive (10ml).	1	10
FPP5-L	5µm polishing paper (AL ₂ O ₃).	50	250
FPF1-V	Polishing film - 1µm diamond.	5	50
FLCFPLF-X	0.05µm lapping film.	10	—
FSWB-C	Cleaning swabs.	100	1000
FST	Safety stickers for fibre scraps.	1	10
FSYR-X	Syringes with needle tips.	10	50
FWP-C	Cloth wipes.	100	1000
PFX-0	Permanent marking pen, fine tip, black ink.	12	144

Field Polish Fibre Optic Termination Kit

- PANDUIT™ field polish connector termination
- Fast acting adhesive; no electricity required for termination
- Kit provides consumables for terminating up to 100 field polish connectors
- Includes non-consumable and consumable components
- Also includes stripping templates for PANDUIT field polish connectors and FJ Duplex Jack Modules and Plugs



FJKITG

Part Number	Part Description	Std. Pkg. Qty.
Field Polish Termination Kit		
FJKITG	Includes tools and consumables necessary for termination of 2.5mm ferrule field polish multimode connectors (FJ Duplex Jack Modules and Plugs, ST*, SC). Also terminates 2.5mm ferrule singlemode connectors with singlemode polishing cloth, film and slurry (purchased separately).	1
Refurbishment Kit for FJKITG		
FJKITG-RFB	Consumables refurbishment kit. Includes all of the same consumable items in the same quantities as FJKITG.	1

Components for Field Polish Fibre Optic Termination Kit (FJKITG)

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Non-Consumables			
CST115	Plier nose wire stripper.	1	—
FALC	Alcohol bottle. (contents not included)	1	10
FBFSP	Fibre buffer stripper	1	10
FBFSPM^	Miller fibre cable buffer stripper	1	10
FCRP5	Universal crimp tool	1	—
FCVR	Fibre cleaver	1	10
FGLS	Safety glasses	1	10
FJPKGU	Universal polishing puck	1	10
FKC	Fibre cable strength member scissors	1	10
FPAD	Fibre polishing pad	1	10
FSCDVR	Screwdriver	1	50
FSCP	Fibre inspection microscope	1	—
FTWZR	Tweezers	1	10
FWBTL	Water bottle	1	10
Consumables			
FJPMR	Primer (50ml)	1	10
FJPTY	Anaerobic adhesive (10ml)	1	10
FPP1-L	1m polishing paper (AL 2 0 3)	50	250
FPP5-L	5m polishing paper (AL 2 0 3)	50	250
FSWB-C	Cleaning swabs	100	1000
FST	Safety stickers for fibre scraps	1	10
FSYR-X	Syringes with needle tips	10	50
FWP-C	Cloth wipes	100	1000
PFX-0	Permanent marking pen, fine tip.	12	144
Additional Components for Singlemode SC and ST* Connectors and Singlemode FJ Jack Modules and Plugs			
FPCL-Q^	Singlemode polishing cloth (not included in FJKITG)	25	250
FPF1-V^	Singlemode polishing film - 1m diamond (not included in FJKITG)	5	50
FPSL^	Singlemode polishing slurry (not included in FJKITG)	1	10

^Not included in FJKITG or FJKITG-RFB.

OPTICOM™ Rack Mount Splice Enclosures

- Can be mounted to any standard EIA 482.6mm or 584.2mm rack or cabinet
- Include fibre optic cable routing accessory kit and label
- Top, bottom and side cable entry
- Accept OPTICOM™ Fibre Adapter Panels



Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.
Opticom Fibre Optic Rack Mount Enclosures			
FRME1	Accepts up to (3) FAP or FMP adapter panels. Support up to (24) ST*, (36) SC or (36) FJ fibre optic terminations. Includes a slide out / tilt down drawer for easy access. Dimensions 44.2mm H x 292.1mm D x 482.6mm W	1	1
FRME2	Accepts up to (6) FAP or FMP adapter panels. Support up to (48) ST*, (72) SC or (72) FJ fibre optic terminations. Includes a slide out / tilt down drawer for easy access. Dimensions 87.6mm H x 295.9mm D x 482.6mm W	2	1
FRME3	Accepts up to (9) FAP or FMP adapter panels. Support up to (72) ST*, (108) SC or (108) FJ fibre optic terminations. Dimensions 132.8mm H x 295.1mm D x 482.6mm W	3	1
FRME4	Accepts up to (12) FAP or FMP adapter panels, (1) splice tray holder (FST24H3) and (3) splice trays (FST24). Support up to (96) ST*, (144) SC or (144) FJ fibre optic terminations. Dimensions 175.3mm H x 295.9mm D x 482.6mm W	4	1
Opticom Rack and Under-Floor Mount Enclosures			
FRME48AIBL	Includes (24) shuttered angled inserts. Can be hung from the side of wire cable tray. Dimensions 130mm H x 146mm D x 482.6mm W	3	1
FRME48AINSBL	Includes (24) angled inserts. Can be hung from the side of wire cable tray. Dimensions 130mm H x 147mm D x 482.6mm W	3	1

[^]One rack space = 44.45mm

Optional locks available for Rack Mount Enclosures.

Fibre optic cable routing accessory kits contain various cable management components such as PANDUIT™ cable ties, strain relief, moulded grommet(s), saddle clips/spools and fibre caution labels.

All product colour is black.

OPTICOM™ Fibre Optic Rack Mount Splice Enclosures

- Can be mounted to any standard EIA 19" or 23" rack or cabinet
- Built-in slack manager for easy storage of slack fibre
- Accept FST6 splice tray
- Include fibre optic cable routing accessory kit and label



Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.
FRME72SBL	Opticom Fibre Optic Splice Enclosure. Holds up to (6) splice trays (FST6). Includes a slide out drawer for easy access. Dimensions 87.6mm H x 298.9mm D x 482.6mm W.	2	1
FRME144SBL	Opticom Fibre Optic Splice Enclosure. Holds up to (12) splice trays (FST6). Dimensions 173.5mm H x 298.9mm D x 482.6mm W.	4	1

[^]One rack space = 44.45mm

Optional locks available.

Fibre optic cable routing accessory kits contain various cable management components such as PANDUIT™ cable ties, strain relief, moulded grommet(s), saddle clips/spools and fibre caution labels.

All product colour is black.

OPTICOM™ PreLoaded Trays

- Factory installed adapters
- Removable patch panel allows rear access from front of unit
- Can be mounted flush to any standard EIA 19" or 23" rack or cabinet
- Mount flush or 50.8mm recessed on 19" rack or cabinet
- Include fibre optic cable routing accessory kit



Part Number	Part Description	No. of Rack Spaces	Std. Pkg. Qty.
FT1W12DSC	Includes (12) port blue duplex SC adapters with phosphor bronze split sleeves. Dimensions 44.5mm H x 203.4mm D x 482.6mm W	1	1
FT1W12ST	Includes (12) port ST* adapters with phosphor bronze split sleeves. Dimensions 44.5mm H x 203.4mm D x 482.6mm W	1	1
FT1W24ST	Includes (24) port ST* adapters with phosphor bronze split sleeves. Dimensions 44.5mm H x 203.4mm D x 482.6mm W	1	1
FT124MC	Will accept up to (24) port <i>MINI-COM™</i> modules. No adapters included. Dimensions 44.5mm H x 203.4mm D x 482.9mm W	1	1

All product colour is black.

OPTICOM™ Trays

- Removable rear tray cover provides easy access to splices and cable storage
- Side and rear cable entry
- Can be mounted to standard EIA 19" rack or cabinet
- Include fibre optic cable routing accessory kit



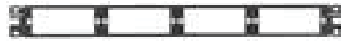
Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.
FMT1	Mounts behind modular patch panels, such as CFAPPBL and accepts up to (1) splice tray holder (FSTHE) and (2) splice trays (FST6). Dimensions 44.9mm H x 283.4mm D x 482.6mm W	1	1
FMT2	Mounts behind module patch panels such as CFAPPBL2 and accepts up to (1) splice tray holder (FSTHE) and (4) splice trays (FST6). Dimensions 88.29mm H x 283.36mm D x 482.60mm W	2	1

[^]One rack space = 44.45mm

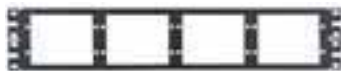
Fibre Optic Cable Routing Accessory Kit contains various fibre optic cable management components such as *PANDUIT™* cable ties, adhesive backed mounts, innerduct pieces and grommet edging. All product colour is black.

Fibre Adapter Patch Panels

- Can be mounted to any EIA 19" rack or cabinet
- Mount to Opticom Trays
- Accept Opticom Fibre Adapter Panels.



CFAPPBL1



CFAPPBL2

Part Number	Part Description	No. of Rack Spaces	Std. Pkg. Qty.	Std. Ctn. Qty.
CFAPPBL1	Accepts up to (4) FAP or FMP Adapter Panels. Dimensions 1.72H x 19W (33mm x 482mm)	1	1	10
CFAPPBL2	Accepts up to (8) FAP or FMP Adapter Panels. Dimensions 3.47H x 19W (88mm x 482mm)	2	1	10

All product colour is black.

OPTICOM™ Drawers

- Drawer slides out for easy front access
- Accept OPTICOM™ Fibre Adapter Panels
- Rear tray capacity for splice tray installation
- Can be mounted to EIA 19" rack or cabinet
- Removable rear tray provides easy access to splices and cable storage
- Include fibre optic routing accessory kit
- Patented front bend radius control clips
- Side and rear cable entry



FMD2

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
FMD1	Slide out drawer accepts up to (4) FAP or FMP Adapter Panels, (1) splice tray holder (FSTHE) and (2) splice trays (FST6). Supports up to (32) ST, (48) SC or (48) FJ fibre optic terminations. Dimensions 44.45mm H x 504.19mm W x 389.38mm D.	1	1
FMD2	Slide out drawer accepts up to (8) FAP or FMP Adapter Panels, (1) splice tray holder (FSTHE) and (4) splice trays (FST6). Supports up to (64) ST, (96) SC or (96) FJ fibre optic terminations. Dimensions 88.30mm H x 504.19mm W x 391.16mm D.	2	1

^One rack space = 44.45mm

Fibre optic cable routing accessory kits contain various cable management components such as PANDUIT™ cable ties, strain relief, moulded grommet(s), saddle clips / spools and fibre caution labels.

All product colour is black.

OPTICOM™ Pre-Terminated Trays and Drawers

- Simplify installation process
- Factory terminated with 2 metres 900µm jacketed cable (62.5/125µm)
- Factory assembled and tested connectors
- Include splice trays that accommodate mechanical or fusion splices
- Can be mounted to standard EIA 19" rack or cabinet



FMT24STMP



FMD24STMP

Part Number	Part Description	No. of Rack Spaces^	Std. Pkg. Qty.
Pre-Terminated Trays			
FMT24STMP	Assembled with (24) ST Pigtails, (1) CFAPPBL1, (4) FAP6WST, (1) splice tray holder (FSTHE) and (2) splice trays (FST6). Dimensions 44.5mm H x 482.6mm W x 284.0mm D	1	1
FMT24SCMP	Assembled with (24) SC Pigtails, (1) CFAPPBL1, (4) FAP3WDSC, (1) splice tray holder (FSTHE) and (2) splice trays (FST6). Dimensions 44.5mm H x 482.6mm W x 284.0mm D	1	1
FMT24FJMP	Assembled with (12) FJ duplex Pigtails, (1) CFAPPBL1, (2) FMP6, (2) FAPB, (1) splice tray holder (FSTHE) and (2) splice trays (FST6). Dimensions 44.5mm H x 482.6mm W x 284.0mm D	1	1
FMT48STMP	Assembled with (48) ST Pigtails, (1) CFAPPBL2, (8) FAP6WST, (1) splice tray holder (FSTHE) and (4) splice trays (FST6). Dimensions 88.9mm H x 482.6mm W x 284.0mm D	2	1
FMT48SCMP	Assembled with (48) SC Pigtails, (1) CFAPPBL2, (4) FAP3BUDSC, (1) splice tray holder (FSTHE) and (4) splice trays (FST6). Dimensions 88.9mm H x 482.6mm W x 284.0mm D	2	1
FMT48FJMP	Assembled with (24) duplex FJ Pigtails, (1) CFAPPBL2, (4) FMP6, (4) FAPB, (1) splice tray holder (FSTHE) and (4) splice trays (FST6). Dimensions 88.9mm H x 482.6mm W x 284.0mm D	2	1
Pre-Terminated Drawers			
FMD24STMP	Assembled with (24) ST* Pigtails, (4) FAP6WST, (1) FSTHE and (2) FST6 splice trays. Dimensions 44.5mm H x 482.6mm W x 389.5mm D	1	1
FMD24FJMP	Assembled with (12) duplex FJ™ Pigtails, (2) FMP6, (2) FAPB, (1) splice tray holder (FSTHE) and (2) splice trays (FST6) . Dimensions 44.5mm H x 482.6mm W x 389.5mm D	1	1
FMD48STMP	Assembled with (48) ST* Pigtails, (8) FAP6WST, (1) splice tray holder (FSTHE) and (4) splice trays (FST6) . Dimensions 88.9mm H x 482.6mm W x 389.5mm D	2	1
FMD48SCMP	Assembled with (48) SC Pigtails, (8) FAP3BUDSC, (1) splice tray holder (FSTHE) and (4) splice trays (FST6). Dimensions 88.9mm H x 482.6mm W x 389.5mm D	2	1
FMD48FJMP	Assembled with (24) duplex FJ™ Pigtails, (4) FMP6, (4) FAPB, (1) splice tray holder (FSTHE) and (4) splice trays (FST6). Dimensions 88.9mm H x 482.6mm W x 389.5mm D	2	1

OPTICOM™ Wall Mount Enclosures

- Include fibre optic cable routing accessory kit and label
- Separate doors for service and users sides with optional** keyed locks for added security
- Accept OPTICOM™ Fibre Adapter Panels
- Compact design allows installation in tight areas



Part Number	Part Description	Std. Pkg. Qty.
FWME2	Accepts up to (2) FAP or FMP panels, (1) splice tray holder (FSTHS) and (2) splice trays (FSTK). Supports up to (16) ST, (24) SC or (24) FJ fibre optic terminations. Dimensions 304.8mm H x 258.6mm W x 58.9mm D	1
FWME4	Accepts up to (4) FAP or FMP panels, (1) splice tray holder (FSTHS) and (4) splice trays (FSTK). Supports up to (32) ST, (48) SC or (48) FJ fibre optic terminations. Dimensions 409.2mm H x 311.2mm W x 89.4mm D	1
FWME8	Accepts up to (8) FAP or FMP panels, (2) splice tray holders (FSTHS) and (8) splice trays (FSTK). Supports up to (64) ST, (96) SC or (96) FJ fibre optic terminations. Dimensions 409.2mm H x 514.2mm W x 89.4mm D	1

**Use enclosure lock part number FELU for user side or FELS for service side.

Fibre Optic Cable Routing Accessory Kit contains various fibre optic cable management components such as PANDUIT™ cable ties, cable tie brackets, clips and grounding lugs.

All product colour is black.

OPTICOM™ Pre-Terminated Wall Mount Enclosures

- Simplify installation process
- Factory terminated connectors with 2 metres 900µm jacketed cable (62.5/125µm)
- Include splice trays that accommodate mechanical or fusion splices



FWME12STMP

Part Number	Part Description	Std. Pkg. Qty.
FWME12STMP	Assembled with (12) ST Pigtails, (2) FAP3WST, (1) FSTHS and (2) FSTK. Dimensions 305mm W x 254mm H x 57mm D.	1

All product colour is black.

OPTICOM™ Fibre Adapter Panels

- Snap quickly into the front of all OPTICOM™ Fibre Optic Enclosures
- Singlemode SC APC Adapters, MINI-COM™ SC APC Adapter modules and OPTICOM™ SC APC Fibre Adapter Panels are manufactured in APC Green with zirconia ceramic split sleeves



FMP6**



FAP6WEISC



FAP3WEIDSC



FAP6WBUDSCZ



FAP6WST



FAP6WAGDSCZ



FAP6WSTA



FAP6WFCZ



FMP6WMTRJ



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Multi-Media Modular Panel			
FMP6	Unloaded panel accepts up to (6) MINI-COM™ Modules for Fibre Optic, UTP, ScTP and Coax applications. Customise your installation for multi-media applications requiring integration of fibre optic and copper cables.	1	10
Simplex SC Fibre Adapter Panels			
FAP6WEISC	Loaded with (6) electric ivory SC simplex adapters with phosphor bronze split sleeves.	1	10
FAP6WBUSCZ	Loaded with (6) blue SC simplex adapters with ceramic sleeves.	1	10
Duplex SC Fibre Adapter Panels			
FAP2WEIDSC	Loaded with (2) electric ivory SC duplex adapters with phosphor bronze split sleeves.	1	10
FAP3WEIDSC	Loaded with (3) electric ivory SC duplex adapters with phosphor bronze split sleeves.	1	10
FAP3WEIDSCA	Loaded with (3) electric ivory angled SC duplex adapters with phosphor bronze split sleeves.	1	10
FAP4WEIDSC	Loaded with (4) electric ivory SC duplex adapters with phosphor bronze split sleeves.	1	10
FAP6WEIDSC	Loaded with (6) electric ivory SC simplex adapters with phosphor bronze split sleeves.	1	10
FAP2WBUDSCZ	Loaded with (2) blue SC duplex adapters with ceramic sleeves.	1	10
FAP3WBUDSCZ	Loaded with (3) blue SC duplex adapters with ceramic sleeves.	1	10
FAP4WBUDSCZ	Loaded with (4) blue SC duplex adapters with ceramic sleeves.	1	10
FAP6WBUDSCZ	Loaded with (6) blue SC duplex adapters with ceramic sleeves.	1	10
SC Adapters in APC Green			
FASSCZAG-L	SC APC Adapter simplex	1	10
FADSCZAG-L	SC APC Adapter duplex	1	10
CMSAGSCZBL	SC APC Adapter Module simplex	1	10
CMDAGSCZBL	SA APC Adapter Module duplex	1	10
FAP6WAGSCZ	SC APC Fibre Adapter Panel 6 port simplex	1	10
FAP12WAGSCZ	SC APC Fibre Adapter Panel 12 port simplex	1	10
FAP2WAGDSCZ	SC APC Fibre Adapter Panel 2 port duplex	1	10
FAP3WAGDSCZ	SC APC Fibre Adapter Panel 3 port duplex	1	10
FAP4WAGSCZ	SC APC Fibre Adapter Panel 4 port duplex	1	10
FAP2WAGDSCZ	SC APC Fibre Adapter Panel 6 port duplex	1	10
Simplex LC Fibre Adapter Panels			
FAP12WBUDLCZ	Loaded with (12) blue LC duplex adapters with ceramic split sleeves.	1	10
Duplex LC Fibre Adapter Panels			
FAP6WEIDL	Loaded with (6) electric ivory LC duplex adapters with phosphor bronze split sleeves.	1	10
FAP6WBUDLCZ	Loaded with (6) blue LC duplex adapters with ceramic sleeves.	1	10
Simplex ST* Fibre Adapter Panels			
FAP6WST	Loaded with (6) ST* adapters with phosphor bronze split sleeves.	1	10
FAP6WSTA	Loaded with (6) angled ST* adapters with phosphor bronze split sleeves.	1	10
FAP8WST	Loaded with (8) ST* adapters with phosphor bronze split sleeves.	1	10
FAP6WSTZ	Loaded with (6) ST* adapters with ceramic sleeves.	1	10
FAP8WSTZ	Loaded with (8) ST* adapters with ceramic sleeves.	1	10

Simplex FC Fibre Adapter Panels

FAP6WFC	Loaded with (6) FC adapters with phosphor bronze split sleeves.	1	10
FAP6WFCZ	Loaded with (6) FC adapters with ceramic sleeves.	1	10

MT-RJ Fibre Adapter Panels

FMP6WMTRJ	Loaded with (6) electric ivory MT-RJ adapters.	1	10
FMP6WMTRJBL	Loaded with (6) black MT-RJ adapters.	1	10

Blank Fibre Adapter Panel

FAPB	Blank adapter panel - reserves space for future use.	1	10
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**Adapters not included

OPTICOM™ Pre-Terminated Cassettes

- Utilise same footprint as Fibre Adapter Panels to fit in any OPTICOM™ Enclosure
- Factory assembled and tested connectors
- Insertion loss/return loss data provided
- Eliminate field connector terminations
- Significantly reduces installation time and labour



FC6STMFCM



FC8FJMFCM

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
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Opticom Pre-Terminated Cassettes with Multi-fibre Connectors "Plug-N-Play" system - no splicing required Multimode MPO Cassettes

FC6STMFCM	Moulded fibre cassette with (6) front mounted ST* connectors to rear mounted MPO 62.5/125µm	1	10
FC6SCMFCM	Moulded fibre cassette with (3) front mounted duplex SC connectors to rear mounted MPO 62.5/125µm.	1	10
FC12SCMFCM	Moulded fibre cassette with (6) front mounted duplex SC connectors to rear mounted MPO 62.5/125µm.	1	10
FC8FJMFCM	Moulded fibre cassette with (4) front mounted FJ connectors to rear mounted MPO 62.5/125µm	1	10

Singlemode MPO Cassettes

FC6STMFCS	Moulded fibre cassette with (6) front mounted ST* connectors to rear mounted MPO 9/125µm	1	10
FC6SCMFCS	Moulded fibre cassette with (3) front mounted duplex SC connectors to rear mounted MPO 9/125µm.	1	10
FC12SCMFCS	Moulded fibre cassette with (6) front mounted duplex SC connectors to rear mounted MPO 9/125µm.	1	10
FC8FJMFCS	Moulded fibre cassette with (4) front mounted FJ connectors to rear mounted MPO 9/125µm	1	10

Opticom Pre-Terminated Cassettes with 5 metre Pigtail Multimode Pigtail Cassettes

FC6STMP5	Moulded fibre cassette with (6) front mounted ST* connectors to rear pigtail 62.5/125µm	1	10
FC6SCMP5	Moulded fibre cassette with (3) front mounted duplex SC connectors (6 fibres) to rear pigtail 62.5/125µm.	1	10
FC8FJMP5	Moulded fibre cassette with (4) front mounted FJ connectors (8 fibres) to rear pigtail 62.5/125µm	1	10
FC12SCMP5	Moulded fibre cassette with (6) front mounted duplex SC connectors (12 fibres) to rear pigtail 62.5/125µm.	1	10

Singlemode Pigtail Cassettes

FC6STSP5	Moulded fibre cassette with (6) front mounted ST* connectors to rear pigtail 9/125µm	1	10
FC6SCSP5	Moulded fibre cassette with (3) front mounted duplex SC connectors (6 fibres) to rear pigtail 9/125µm.	1	10
FC8FJSP5	Moulded fibre cassette with (4) front mounted FJ connectors (8 fibres) to rear pigtail 9/125µm	1	10
FC12SCSP5	Moulded fibre cassette with 6 front mounted duplex SC connectors (12 fibres) to rear pigtail 9/125µm.	1	10

MPO Cassettes used with MPO Fibre Optic Cords.
All product colour is black.

OPTICOM™ Optical Component Module

- Provides instant access to monitor valuable optical circuits without disconnecting or interrupting service
- Simplifies testing and troubleshooting
- Helps manage reliable service for customers
- Compatible with OPTICOM™ Enclosures



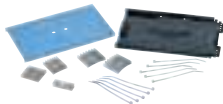
F6B-2-4JAKBBAA

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
F6B-2-4JAKBBAA	OPTICOM™ 90/10 Wideband Singlemode Optical Splitter Cassette, singlemode SC/UPC, monitors 2 singlemode fibre cables, ports: 4 Front - 2 Rear.	1	10
F6B-2-4JAHBBAA	OPTICOM™ 90/10 Wideband Singlemode Optical Splitter Cassette, singlemode SC/UPC, monitors 2 singlemode fibre cables, ports: 6 Front.	1	10

OPTICOM™ Splice Trays and Holders

For use with either mechanical or fusion splices. Complete kit includes:

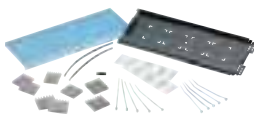
- Mechanical and fusion adhesive backed splice holders (each splice holder holds 6 splices)
- Cable ties to help manage incoming and outgoing cable
- PVC tubing to protect buffered fibre upon exit or entry into tray
- One splice tray with protective cover.



FST6



FST6H4



FST24



FST24H3



FSTK

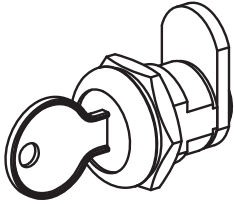


FSTHS

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Splice Tray Kit - For Trays, Drawers, Splice Enclosures, FWME4 and FWME8			
FST6	Accommodates up to (12) mechanical or fusion splices. For use with FSTHE or FST6H4 stacking unit. Dimensions 10.2mm H x 113.8mm W x 201.6mm L	1	10
Splice Tray Stacking Unit - For Trays and Drawers			
FSTHE	Holds and secures up to (4) splice trays (FST6). Can be mounted with the use of adhesive strips or mounting screws included. Splice trays held in place with PANDUIT™ TAK-TY™ Cable Ties. For use with FMT1, FMT2, FMD1 or FMD2. Dimensions 45mm H x 116mm W x 205mm L	1	10
FSTHED	Holds and secures up to 4 FST24S splice tray. It's used with FMT's Trays and FMD's Drawers	1	10
FST24S	Splice tray holds up to 24 mechanical or fusion splice	1	10
Splice Tray Stacking Unit - For FWME4 and FWME8			
FST6H4	Holds and secures up to (4) splice trays (FST6) with built in fibre spooling. Mounts with existing hardware. Splice trays held in place with PANDUIT TAK-TY™ Cable Ties. Dimensions 80.77mm H x 117.60mm W x 201.42mm L	1	—
Splice Tray Kit - For FRME4			
FST24	Accommodates up to (24) mechanical or fusion splices, or (144) ribbon fusion splices. For use with FST24H3. Dimensions 9.5mm H x 298.5mm W x 111.4mm L	1	10
Splice Tray Stacking Unit - For FRME4			
FST24H3	Holds and secures up to (3) splice trays (FST24) with built in fibre spooling. Mounting hardware included. Splice trays held in place with PANDUIT TAK-TY™ Cable Ties. Dimensions 52.6mm H x 295.0mm W x 115.8mm L	1	10
Splice Tray Kit - For FWME2			
FSTK	Accommodates up to (6) mechanical or fusion splices. For use with FSTHS stacking unit. Dimensions 9.8mm H x 87mm W x 169mm L	1	10
Splice Tray Stacking Unit - For FRME2			
FSTHS	Holds and secures up to (2) splice trays (FSTK) with built in fibre spooling. Mounts with existing hardware. Splice tray held in place with PANDUIT TAK-TY™ Cable Ties. Dimensions 41mm H x 89mm W x 165mm L	1	10

Fibre Accessories

- Locks can be installed on *OPTICOM™* Enclosure for added security



FEL

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FEL	Fibre enclosure lock for splice enclosures.	1	10
FELS	Fibre enclosure lock for service side.	1	10
FELU	Fibre enclosure lock for user side.	1	10

Optical Fibre Network Saddle (Dual Capacity)

- Smooth rounded edges eliminates potential for snagging and stress on cable



Part Number	Max. Bundle Dia.*	Material	Mounting Method	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm					
VWSDC-C	26.9	Nylon 6.6	Push Mount	Natural	100	500

- Accepts two bundles

Optical Fibre Network Saddle

- Use in pre-drilled 4mm holes in panels up to 2.2mm thick
- Smooth rounded edges eliminates potential for snagging and stress on cable



Part Number	Max. Bundle Dia.	Material	Mounting Method	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm					
VWS106-C	26.9	Nylon 6.6	Push Mount	Natural	100	500

Multimode 62.5/125µm or 50/125µm Patch Cords and Pigtails‡

- Designed and tested to pass all TIA/EIA-568-B.3 performance requirements
- Insertion loss per connection: 0.10dB typical; 0.30dB maximum
- 100% factory tested for insertion loss
- Insertion loss data recorded for every multimode patch cord
- Lifetime traceability of test data to a QC number on each patch cord
- SC Duplex Patch Cords include SC Duplex Clips to maintain polarity
- Highest quality flame retardant fibre optic cable with tight buffered coating on each optical fibre
- 62.5/125µm patch cord part numbers use F6 prefix; change to F5 prefix for 50/125µm patch cords



F6D3-3M



F6S3-3M



F6B3-NM



F6E10-10M



F6B10-NM



F6D2-2M



F6S2-2M



F6D6P-6PM



F6D6J-NM

Part Number	Part Description	Length (M) Additional Lengths ^A	Std. Pkg. Qty.	Std. Ctn. Qty.
SC to SC - Multimode Duplex Patch Cords - 3mm Jacketed Cable				
F6D3-3M1	SC to SC multimode duplex patch cord, 3mm jacketed cable (two SC connectors on each end) - 62.5/125µm.	1	1	10
SC to SC - Multimode Simplex Patch Cords - 3mm Jacketed Cable				
F6S3-3M1	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 - Multimode Simplex Pigtails - 900µm Buffered Fibre				
F6B3-NM1	SC to pigtail multimode simplex pigtail, 900µm buffered fibre (one SC connector on one end and open on the other end) - 62.5/125µm.	1	1	10
LC to LC - Multimode Duplex Patch Cords - 1.6mm Jacketed Cable				
F6E10-10M1	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 Pigtail - Multimode Simplex Pigtails - 900µm Buffered Fibre				
F6B10-NM1	LC to pigtail multimode simplex pigtail, 900µm buffered fibre (one LC connector on one end and open on the other end) - 62.5/125µm.	1	1	10
ST* to ST* - Multimode Duplex Patch Cords - 3mm Jacketed Cable				
F6D2-2M1	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* - Multimode Simplex Patch Cords - 3mm Jacketed Cable				
F6S2-2M1	ST* to ST* multimode simplex patch cord, 3mm jacketed cable (one ST* connector on each end) - 62.5/125µm.	1	1	10
FJ Plug to FJ Plug - Multimode Duplex Patch Cords - 3mm Jacketed Cable				
F6D6P-6PM1	FJ plug to FJ plug multimode duplex patch cord, 3mm jacketed cable (one FJ plug on each) - 62.5/125µm.	1	1	10
FJ Jack Module to Pigtail - Multimode Duplex Pigtails - 3mm Jacketed Cable				
F6D6J-NM1	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 50/125µm fibre optic patch cords, substitute the F6 in the part number (F6 D3-3M1) with F5 (F5 D3-3M1).
^AAdditional lengths and availability: Patch cords are available in 1, 2, 3, 5 and 10 metre lengths, and pigtails are available in 1, 2 and 3 metre lengths. To order lengths other than 1 metre, substitute the 1 suffix in the part number (F6D3-3M 1) with the desired length (F6D3-3M 2 for 2 metre length). Patch cords in 1, 2 and 3 metre lengths, and pigtails in 1 metre lengths are stock items.

Self-Laminating Labels for Fibre Optic Patch Cords and Pigtails – Multimode 62.5/125µm or 50/125µm

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
F6E10-NM	S100X160FAJ and NWSLC-2	S100X160VAC
F6S**-**M	S100X160FAJ and NWSLC-3	S100X160VAC
F6D**-**M	S100X225FAJ and NWSLC-7	S100X225VAC
F6D6P-6PM		
F6D6J-NM		

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

**All part number configurations on this page.

Multimode 62.5/125µm or 50/125µm Patch Cords and Pigtails‡ (continued)



F6B6J-NM



F6D6PW-3M



F6D6PX-3M



F6D6PY-3M



F6D6PZ-3M



F6D6PQ-3M



F6D2-3M



F6E3-10M



F6D6P-3M



F6D6P-2M

Part Number	Part Description	Length (M) Additional Lengths [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
FJ Jack Module to Pigtail – Multimode Duplex Pigtails – 900µm Buffered Fibre				
F6B6J-NM1	FJ jack module to pigtail multimode duplex pigtail, 900µm buffered fibre (one FJ jack module on one end and open on the other end) - 62.5/125µm.	1	1	10
FJ Plug (Keyed W) to SC – Multimode Duplex Patch Cords, 3mm Jacketed Cable				
F6D6PW-3M1	FJ plug (keyed W - black) to SC multimode duplex patch cord, 3mm jacketed cable (one keyed FJ plug on one end and two SC connectors on the other end) - 62.5/125µm.	1	1	10
FJ Plug (Keyed X) to SC – Multimode Duplex Patch Cords – 3mm Jacketed Cable				
F6D6PX-3M1	FJ plug (keyed X - red) to SC multimode duplex patch cord, 3mm jacketed cable (one keyed FJ plug on one end and two SC connectors on the other end) - 62.5/125µm.	1	1	10
FJ Plug (Keyed Y) to SC – Multimode Duplex Patch Cords – 3mm Jacketed Cable				
F6D6PY-3M1	FJ plug (keyed Y - orange) to SC multimode duplex patch cord, 3mm jacketed cable (one keyed FJ plug on one end and two SC connectors on the other end) 62.5/125µm.	1	1	10
FJ Plug (Keyed Z) to SC – Multimode Duplex Patch Cords – 3mm Jacketed Cable				
F6D6PZ-3M1	FJ plug (keyed Z - yellow) to SC multimode duplex patch cord, 3mm jacketed cable (one keyed FJ plug on one end and two SC connectors on the other end) 62.5/125µm.	1	1	10
FJ Plug (Keyed Q) to SC – Multimode Duplex Patch Cords – 3mm Jacketed Cable				
F6D6PQ-3M1	FJ plug (universal keyed Q - white) to SC multimode duplex patch cord, 3mm jacketed cable (one keyed FJ plug on one end and two SC connectors on the other end) - 62.5/125µm.	1	1	10
ST* to SC – Multimode Duplex Patch Cords – 3mm Jacketed Cable				
F6D2-3M1	ST* to SC multimode duplex patch cord, 3mm jacketed cable (two ST* connectors on one end and two SC connectors on the other end) - 62.5/125µm.	1	1	10
SC to LC – Multimode Duplex Patch Cords – 1.6mm Jacketed Cable				
F6E3-10M1	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
FJ Plug to SC – Multimode Duplex Patch Cords – 3mm Jacketed Cable				
F6D6P-3M1	FJ plug to SC multimode duplex patch cord, 3mm jacketed cable (one FJ plug on one end and two SC connectors on the other end) - 62.5/125µm.	1	1	10
FJ Plug to ST* – Multimode Duplex Patch Cords – 3mm Jacketed Cable				
F6D6P-2M1	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

To order 50/125m fibre optic patch cords, substitute the F6 in the part number (F6 D3-3M1) with F5 (F5 D3-3M1).

[^]Additional lengths and availability: Patch cords are available in 1, 2, 3, 5 and 10 metre lengths, and pigtails are available in 1, 2 and 3 metre lengths. To order lengths other than 1 metre, substitute the 1 suffix in the part number (F6D3-3M 1) with the desired length (F6D3-3M 2 for 2 metre length). Patch cords in 1, 2 and 3 metre lengths, and pigtails in 1 metre lengths are stock items.

Self-Laminating Labels for Fibre Optic Patch Cords and Pigtails – Multimode 62.5/125µm or 50/125µm

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
F6D6P**-3M	S100X225FAJ and NWSLC-7	S100X225VAC
F6D2-3M		
F6E3-10M		
F6D6P-2M		

*ST is a registered trademark of Lucent Technologies

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

** All F6D6P*-3M parts on this page.

Fan-Out Cords – Multimode 62.5/125µm



F612D3-NM

Part Number	Part Description	Length (M) [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
Distribution Fibre Optic Cords - Six ST* Connectors to Pigtails				
F66D2-NM1	ST* to pigtail six strand fibre optic cable (six ST* connectors on one end and open on the other end on distribution cable) - 62.5/125µm.	1	1	10
Distribution Fibre Optic Cords - Six SC Connectors to Pigtails				
F66D3-NM1	SC to pigtail six strand fibre optic cable (six SC connectors on one end and open on the other end on distribution cable) - 62.5/125µm.	1	1	10
Distribution Fibre Optic Cords - Four FJ Jack Modules to Pigtails				
F68D6J-NM1	FJ jack module to pigtail eight strand fibre optic cable (four FJ jack modules on one end and open on the other end on distribution cable) - 62.5/125µm.	1	1	10
Distribution Fibre Optic Cords - Twelve SC Connectors to Pigtails				
F612D3-NM1	SC to pigtail twelve strand fibre optic cable (twelve SC connectors on one end and open on the other end on distribution cable) - 62.5/125µm.	1	1	10

[^]Patch cords available in 1, 2, 3 and 10 metre lengths. To order lengths other than 1 metre, substitute 1 suffix with 2, 3 or 10.

MPO Fibre Optic Cords – Multimode 62.5/125µm



F64D5-5M



F612D3-5M

Part Number	Part Description	Length (M)^	Std. Pkg. Qty.	Std. Ctn. Qty.
Four Strand Fibre Optic Cable – MPO to MPO				
F64D5-5M1	MPO to MPO four strand fibre optic cable (one MPO connector on each end on ribbon distribution cable) - 62.5/125µm.	1	1	10
Six Strand Fibre Optic Cable – MPO to MPO				
F66D5-5M1	MPO to MPO six strand fibre optic cable (one MPO connector on each end on ribbon distribution cable) - 62.5/125µm.	1	1	10
Eight Strand Fibre Optic Cable – MPO to MPO				
F68D5-5M1	MPO to MPO eight strand fibre optic cable (one MPO connector on each end on ribbon distribution cable) - 62.5/125µm.	1	1	10
Twelve Strand Fibre Optic Cable – MPO to MPO				
F612D5-5M1	MPO to MPO twelve strand fibre optic cable (one MPO connector on each end on ribbon distribution cable) - 62.5/125µm.	1	1	10
Six Strand Fibre Optic Cable – Six ST* Connectors to MPO				
F66D2-5M1	ST* to MPO six strand fibre optic cable (six ST* connectors on one end and one MPO connector on the other end on ribbon distribution cable) - 62.5/125µm.	1	1	10
Six Strand Fibre Optic Cable – Six SC Connectors to MPO				
F66D3-5M1	SC to MPO six strand fibre optic cable (six SC connectors on one end and one MPO connector on the other end on ribbon distribution cable) - 62.5/125µm.	1	1	10
Twelve Strand Fibre Optic Cable – Twelve SC Connectors to MPO				
F612D3-5M1	SC to MPO twelve strand fibre optic cable (twelve SC connectors on one end and one MPO connector on the other end on ribbon distribution cable) - 62.5/125µm.	1	1	10
Eight Strand Fibre Optic Cable – Four FJ Jack Modules to MPO				
F68D6J-5M1	FJ jack to MPO eight strand fibre optic cable (four FJ jack modules on one end and one MPO connector on the other end on ribbon distribution cable) - 62.5/125µm.	1	1	10

^Patch cords available in 1, 2, 3 and 10 metre lengths. To order lengths other than 1 metre, substitute 1 suffix with 2, 3 or 10.

Self-Laminating Labels for MPO Fibre Optic Cords – Multimode 62.5/125µm

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
All MPO Fibre Optic Cords on this page	S100X160FAJ and NWSLC-3	S100X160VAC

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 www.panduit.com

OPTI-CORE™ 10GIG™ 50/125µm Patch Cords and Pigtails

- Patch cords are certified to support network transmission speeds up to 10 Gigabits per second for link lengths up to 300 metres with an 850nm source per IEEE 802.3ae 10GbE Standards
- Meets or exceeds TIA/EIA-568-B.3 performance requirements
- Insertion loss per connection: 0.10dB typical; 0.30dB maximum
- Backward compatible for use with all 50/125µm system requirements
- 100% factory tested and inspected for optimum performance
- Insertion loss data recorded for every multimode patch cord
- Lifetime traceability of test data to a QC number on each patch code
- SC Duplex Patch Cords include SC Duplex Clips to maintain polarity
- Highest quality flame retardant fibre optic cable with tight-buffered coating on each optical fibre



FXD3-3M



FXB3-NM



FXE10-10M



FXB10-NM



FXD6P-6PM



FXD6J-NM

Part Number	Part Description	Length (M) Additional Lengths [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
SC to SC - 10GbE Multimode Duplex Patch Cords - 3mm Jacketed Cable				
FXD3-3M1	SC to SC multimode duplex patch cord, 10GbE, 3mm jacketed cable (two SC connectors on each end) - 50/125µm.	1	1	10
SC to Pigtail - 10GbE Multimode Simplex Pigtails - 900µm Buffered Fibre				
FXB3-NM1	SC to pigtail multimode simplex pigtail, 10GbE, 900µm buffered fibre (one SC connector on one end and open on the other end) - 50/125µm.	1	1	10
LC to LC - 10GbE Multimode Duplex Patch Cords - 1.6mm Jacketed Cable				
FXE10-10M1	LC to LC multimode duplex patch cord, 10GbE, 1.6mm jacketed cable (one duplex LC connector on each end) - 50/125µm.	1	1	10
LC to Pigtail - 10GbE Multimode Simplex Pigtails - 900µm Buffered Fibre				
FXB10-NM1	LC to pigtail multimode simplex pigtail, 10GbE, 900µm buffered fibre (one LC connector on one end and open on the other end) - 50/125µm.	1	1	10
FJ Plug to FJ Plug - 10GbE Multimode Duplex Patch Cords - 3mm Jacketed Cable				
FXD6P-6PM1	FJ plug to FJ plug multimode duplex patch cord, 10GbE, 3mm jacketed cable (one FJ plug on each end) - 50/125µm.	1	1	10
FJ Jack Module to Pigtail - 10GbE Multimode Duplex Patch Cords - 3mm Jacketed Cable				
FXD6J-NM1	FJ jack module to pigtail multimode duplex pigtail, 10GbE, 3mm jacketed cable (one FJ jack module on one end and open on the other end) - 50/125µm.	1	1	10

If standard 50m performance (orange cable) is preferred, see pages XX-XX.

[^]Additional lengths and availability: Patch cords are available in 1, 2, 3, 5 and 10 metre lengths, and pigtails are available in 1, 2 and 3 metre lengths. To order lengths other than 1 metre, substitute the 1 suffix in the part number (FXD3-3M 1) with the desired length (FXD3-3M 2 for 2 metre length). Patch cords in 1, 2 and 3 metre lengths, and pigtails in 1 metre lengths are stock items.

Self-Laminating Labels for Fibre Optic Patch Cords and Pigtails – OPTI-CORE 10GIG 50/125µm

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
FXD3-3M	S100X225FAJ and NWSLC-7	S100X225VAC
FXE10-10M		
FXD6P-6PM		
FXD6J-NM		

For complete labelling solutions and product information, For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

★ NEW! **OPTI-CORE™ 10GIG™ 50/125µm Patch Cords and Pigtails (continued)**



FXB6J-NM



FXD6PW-3M



FXD6PX-3M



FXD6PY-3M



FXD6PZ-3M



FXD6PQ-3M



FXE3-10M



FXD6P-3M

Part Number	Part Description	Length (M) Additional Lengths [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
FJ Jack Module to Pigtail – 10GbE Multimode Duplex Patch Cords – 900µm Buffered Fibre				
FXB6J-NM1	FJ jack module to pigtail multimode duplex pigtail, 10GbE, 900µm buffered fibre (one FJ jack module on one end and open on the other end) - 50/125µm.	1	1	10
FJ Plug (Keyed W) to SC – 10GbE Multimode Duplex Patch Cords – 3mm Jacketed Cable				
FXD6PW-3M1	FJ plug (keyed W - black) to SC multimode duplex patch cord, 10GbE, 3mm jacketed cable (one keyed FJ plug on one end and two SC connectors on the other end) - 50/125µm.	1	1	10
FJ Plug (Keyed X) to SC – 10GbE Multimode Duplex Patch Cords – 3mm Jacketed Cable				
FXD6PX-3M1	FJ plug (keyed X - red) to SC multimode duplex patch cord, 10GbE, 3mm jacketed cable (one keyed FJ plug on one end and two SC connectors on the other end) - 50/125µm.	1	1	10
FJ Plug (Keyed Y) to SC – 10GbE Multimode Duplex Patch Cords – 3mm Jacketed Cable				
FXD6PY-3M1	FJ plug (keyed Y - orange) to SC multimode duplex patch cord, 10GbE, 3mm jacketed cable (one keyed FJ plug on one end and two SC connectors on the other end) - 50/125µm.	1	1	10
FJ Plug (Keyed Z) to SC – 10GbE Multimode Duplex Patch Cords – 3mm Jacketed Cable				
FXD6PZ-3M1	FJ plug (keyed Z - yellow) to SC multimode duplex patch cord, 10GbE, 3mm jacketed cable (one keyed FJ plug on one end and two SC connectors on the other end) - 50/125µm.	1	1	10
FJ Plug (Keyed Q) to SC – 10GbE Multimode Duplex Patch Cords – 3mm Jacketed Cable				
FXD6PQ-3M1	FJ plug (universal keyed Q - white) to SC multimode duplex patch cord, 10GbE, 3mm jacketed cable (one keyed FJ plug on one end and two SC connectors on the other end) - 50/125µm.	1	1	10
SC to LC – 10GbE Multimode Duplex Patch Cords – 1.6mm Jacketed Cable				
FXE3-10M1	SC to LC multimode duplex patch cord, 10GbE, 1.6mm jacketed cable (two SC connectors on one end and one duplex LC connector on the other end) - 50/125µm.	1	1	10
FJ Plug to SC – 10GbE Multimode Duplex Patch Cords – 3mm Jacketed Cable				
FXD6P-3M1	FJ plug to SC multimode duplex patch cord, 10GbE, 3mm jacketed cable (one FJ plug on one end and two SC connectors on the other end) - 50/125µm.	1	1	10

If standard 50m performance (orange cable) is preferred, see pages XX-XX.

[^]Additional lengths and availability: Patch cords are available in 1, 2, 3, 5 and 10 metre lengths, and pigtails are available in 1, 2 and 3 metre lengths. To order lengths other than 1 metre, substitute the 1 suffix in the part number (FXD3-3M 1) with the desired length (FXD3-3M 2 for 2 metre length). Patch cords in 1, 2 and 3 metre lengths, and pigtails in 1 metre lengths are stock items.

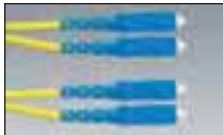
Self-Laminating Labels for Fibre Optic Patch Cords and Pigtails – OPTI-CORE 10GIG™ 50/125µm

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
All FX Parts on this page	S100X225FAJ and NWSLC-7	S100X225VAC

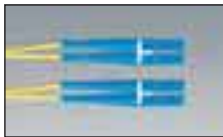
For complete labelling solutions and product information, For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

Singlemode 9/125µm Patch Cords and Pigtails

- Passes 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)
- 100% factory tested and inspected 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 QC number on each patch cord
- Highest quality flame retardant fibre optic cable with tight-buffered coating on each optical fibre



F9B3-NM



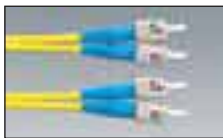
F9E10-10M



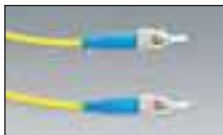
F9F10-10M



F9B10-NM



F9D2-2M



F9S2-2M

Part Number	Part Description	Length (M) Additional Lengths [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
SC to SC - Singlemode Duplex Patch Cords - 3mm Jacketed Cable				
F9D3-3M1	SC to SC singlemode duplex patch cord (two SC connectors on each end) - 9/125µm.	1	1	10
SC to SC - Singlemode Simplex Patch Cords - 3mm Jacketed Cable				
F9S3-3M1	SC to SC singlemode simplex patch cord (one SC connector on each end) - 9/125µm.	1	1	10
SC to Pigtail - Singlemode Simplex Pigtails - 900µm Buffered Fibre				
F9B3-NM1	SC to pigtail singlemode simplex pigtail, 900µm buffered fibre (one SC connector on one end and open on the other end) 9/125µm.	1	1	10
LC to LC - Singlemode Duplex Patch Cords - 1.6mm Jacketed Cable				
F9E10-10M1	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 - Singlemode Simplex Patch Cords - 1.6mm Jacketed Cable				
F9F10-10M1	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 - Singlemode Simplex Pigtails - 900µm Buffered Fibre				
F9B10-NM1	LC to pigtail singlemode simplex pigtail, 900µm buffered fibre (one LC connector on one end and open on the other end) 9/125µm.	1	1	10
ST* to ST* - Singlemode Duplex Patch Cords - 3mm Jacketed Cable				
F9D2-2M1	ST* to ST* singlemode duplex patch cord (two ST* connectors on each end) - 9/125µm.	1	1	10
ST* to ST* - Singlemode Simplex Patch Cords - 3mm Jacketed Cable				
F9S2-2M1	ST* to ST* singlemode simplex patch cord (one ST* connector on each end) - 9/125µm.	1	1	10

[^]Additional lengths and availability: Patch cords are available in 1, 2, 3, 5, 10, 12, 15, 25 and 30 metre lengths, and pigtails are available in 1, 2 and 3 metre lengths. To order lengths other than 1 metre, substitute the 1 suffix in the part number (F9D3-3M 1) with the desired length (F9D3-3M 2 for 2 metre length).
Not available in 12, 15, 25 or 30 metre lengths.

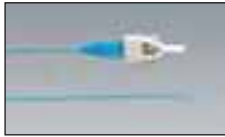
Self-Laminating Labels for Fibre Optic Patch Cords and Pigtails – Singlemode 9/125µm

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
F9F10-NM	S100X160FAJ and NWSLC-2	S100X160VAC
F9S**-**M	S100X160FAJ and NWSLC-3	S100X160VAC
F9D**-**M	S100X225FAJ and NWSLC-7	S100X225VAC
F9D**-**M		

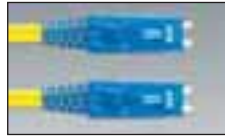
For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

**All part number configurations on this page.

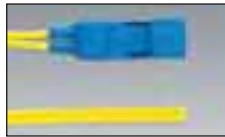
Singlemode 9/125µm Patch Cords and Pigtails (continued)



F9B2-NM



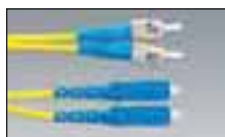
F9D6P-6PM



F9D6J-NM



F9B6J-NM



F9D2-3M



F9S2-3M



F9E3-10M



F9F3-10M



F9D6P-3M

Part Number	Part Description	Length (M) Additional Lengths [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
ST* to Pigtail – Singlemode Simplex Pigtails – 900µm Buffered Fibre				
F9B2-NM1	ST* to pigtail singlemode simplex pigtail, 900µm buffered fibre (one ST* connector on one end and open on the other end) 9/125µm.	1	1	10
FJ Plug to FJ Plug – Singlemode Duplex Patch Cords – 3mm Jacketed Cable				
F9D6P-6PM1	FJ plug to FJ plug singlemode duplex patch cord (one FJ plug on each end) - 9/125µm.	1	1	10
FJ Jack Module to Pigtail – Singlemode Duplex Patch Cords – 3mm Jacketed Cable				
F9D6J-NM1	FJ jack module to FJ jack module singlemode duplex patch cord (one FJ jack module on each end) - 9/125µm.	1	1	10
FJ Jack Module to Pigtail – Singlemode Duplex Pigtails – 900m Buffered Fibre				
F9B6J-NM1	FJ jack module to pigtail singlemode duplex pigtail, 900m buffered fibre (one FJ jack module on one end and open on the other end) 9/125µm.	1	1	10
ST* to SC – Singlemode Duplex Patch Cords – 3mm Jacketed Cable				
F9D2-3M1	ST* to SC singlemode duplex patch cord (two ST* connectors on one end and two SC connectors on the other end) - 9/125µm.	1	1	10
ST to SC – Singlemode Simplex Patch Cords – 3mm Jacketed Cable				
F9S2-3M1	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
SC to LC – Singlemode Duplex Patch Cords – 1.6mm Jacketed Cable				
F9E3-10M1	SC to LC singlemode duplex patch cord, 1.6mm jacketed cable (one duplex SC connector on one end and one duplex LC connector on the other end) - 9/125µm.	1	1	10
SC to LC – Singlemode Simplex Patch Cords – 1.6mm Jacketed Cable				
F9F3-10M1	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
FJ Plug to SC – Singlemode Duplex Patch Cords – 3mm Jacketed Cable				
F9D6P-3M1	FJ plug to SC singlemode duplex patch cord (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, 2, 3, 5, 10, 12, 15, 25 and 30 metre lengths, and pigtails are available in 1, 2 and 3 metre lengths. To order lengths other than 1 metre, substitute the 1 suffix in the part number (F9D3-3M 1) with the desired length (F9D3-3M 2 for 2 metre length). Patch cords in 1, 2 and 3 metre lengths, and pigtails in 1 metre lengths are stock items.

Not available in 12, 15, 25 & 30m lengths

Self-Laminating Labels for Fibre Optic Patch Cords and Pigtails – Singlemode 9/125µm

Suggested Label Solutions for TIA/EIA-606-A Compliance		
Patch Cord Part Number	Laser/Ink Jet Desktop Printer Label	PANTHER™ LS8 Hand-Held Thermal Printer
F9F3-10M	S100X160FAJ and NWSLC-2	S100X160VAC
F9S2-3M	S100X160FAJ and NWSLC-3	S100X160VAC
F9D6P-6PM	S100X160FAJ and NWSLC-7	S100X160VAC
F9D6J-NM		
F9D2-3M		
F9E3-10M		

For complete labelling solutions and product information, reference the Labelling and Administration section on pages 349-356 and www.panduit.com

*ST is a registered trademark of Lucent Technologies

Fan-Out Cords Singlemode 9/125µm



Part Number	Part Description	Length (M) [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
Distribution Fibre Optic Cords – Six ST* Connectors to Pigtails				
F96D2-NM1	ST* to pigtail six strand fibre optic cable (six ST* connectors on one end and open on the other end on distribution cable) - 9/125µm.	1	1	10
Distribution Fibre Optic Cords – Six SC Connectors to Pigtails				
F96D3-NM1	SC to pigtail six strand fibre optic cable (six SC connectors on one end and open on the other end on distribution cable)	1	1	10
Distribution Fibre Optic Cords – Four FJ™ Jack Modules to Pigtails				
F98D6J-NM1	FJ jack module to pigtail eight strand fibre optic cable (four FJ) jack modules on one end and open on the other end on distribution cable) - 9/125µm.	1	1	10
Distribution Fibre Optic Cords – Twelve SC Connectors to Pigtails				
F912D3-NM1	SC to pigtail twelve strand fibre optic cable (twelve SC connectors on one end and open on the other end on distribution cable) - 9/125µm.	1	1	10

[^]Patch cords available in 1, 2, 3 and 10 metre lengths. To order lengths other than 1 metre, substitute 1 suffix with 2, 3, or 10.

MPO Fibre Optic Cords – Singlemode 9/125µm



F94D5-5M

Part Number	Part Description	Length (M) [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
Four Strand Fibre Optic Cable – MPO to MPO				
F94D5-5M1	MPO to MPO four strand fibre optic cable (one MPO connector on each end on ribbon distribution cable) – 9/125µm.	1	1	10
Six Strand Fibre Optic Cable – MPO to MPO				
F96D5-5M1	MPO to MPO six strand fibre optic cable (one MPO connector on each end on ribbon distribution cable) – 9/125µm.	1	1	10
Eight Strand Fibre Optic Cable – MPO to MPO				
F98D5-5M1	MPO to MPO eight strand fibre optic cable (one MPO connector on each end on ribbon distribution cable) – 9/125µm.	1	1	10
Twelve Strand Fibre Optic Cable – MPO to MPO				
F912D5-5M1	MPO to MPO twelve strand fibre optic cable (one MPO connector on each end on ribbon distribution cable) – 9/125µm.	1	1	10
Six Strand Fibre Optic Cable – Six ST* Connectors to MPO				
F96D2-5M1	ST* to MPO six strand fibre optic cable (six ST* connectors on each end and one MPO connector on the other end on ribbon distribution cable) – 9/125µm.	1	1	10
Six Strand Fibre Optic Cable – Six SC Connectors to MPO				
F96D3-5M1	SC to MPO six strand fibre optic cable (six SC connectors on each end and one MPO connector on the other end on ribbon distribution cable) – 9/125µm.	1	1	10
Twelve Strand Fibre Optic Cable – Twelve SC Connectors to MPO				
F912D3-5M1	SC to MPO twelve strand fibre optic cable (twelve SC connectors on one end and one MPO connector on the other end on ribbon distribution cable) – 9/125µm.	1	1	10
Eight Strand Fibre Optic Cable – Four FJ Jack Modules to MPO				
F98D6J-5M1	FJ jack module to MPO eight strand fibre optic cable (four FJ jack modules on one end and one MPO connector on the other end on ribbon distribution cable) – 9/125µm.	1	1	10

MPOs utilise standard APC polish. SC utilise standard UPC polish.

[^]Patch cords available in 1, 2, 3 and 10 metre lengths. To order lengths other than 1 metre, substitute 1 suffix with 2, 3 or 10.

*ST is a registered trademark of Lucent Technologies

Furcation Kits

- Used to build up 900µm fibre to 3mm jacketed fibre to strengthen and protect the fibre
- Kits include furcation tubing with strength members and heat shrink
- Length: 1 metre



FK2BJ

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FK2BJ	Build up 900µm fibre to 3mm jacketed fibre. For two fibres.	1	10
FK4BJ	Build up 900µm fibre to 3mm jacketed fibre. For four fibres.	1	10

250 Micron Fibre Build-Up Tube Kit

- Includes 100 build-up tubes and supplemental instructions for terminating PANDUIT™ Field Polish or OPTI-CRIMP™ Fibre Optic Connectors onto 250µm coated fibre
- Used with 900µm boots included with connectors and the current fibre optic termination kit

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
F250BT-C	250 micron fibre build-up tube kit; includes 100 build-up tubes and supplemental installation instructions.	100	0

FJ Loopback Connector Assemblies

- FJ Jack Module ports can be tested using the FJ Loopback
- Each FJ Loopback includes and FJ Plug
- All FJ Loopback Connector Assemblies share the same performance as our singlemode and multimode patch cords
- Available in multimode (62.5/125µm) and singlemode (9/125µm) using 3mm tight-buffered jacketed cable
- Network interfaces are simulated via the FJ Loopback by sending the transmit signal to the receive signal
- Tests both links (duplex) simultaneously at a single port
- Allows source and metre to remain at one location



FLB-6P-6S-PA



FLB-6P-9S-UA

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FLB-6P-6S-PA	FJ Multimode Loopback with FJ Duplex Plug with PC polish.	1	10
FLB-6P-9S-UA	FJ Singlemode Loopback with FJ Duplex Plug with UPC polish.	1	10

NEW! SC Terminator

- Singlemode SC/UPC Optical Terminator for both 1310nm and 1550nm
- Terminates unused ports to reduce back reflectance to improve network performance
- Return loss: 55dB min (UPC)
- FOCIS-3 compliant
- Meets/exceeds EIA/TIA-568-B.3



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FTRM-SC1	SC/UPC Singlemode Fibre Optic Terminator (1310/1550nm).	1	10

NEW! LABELCORE™ Fibre Optic Cable Identification System

- Made of flexible PVC material
- Provides a large labelling surface on small cables allowing legends to be clearly seen
- Locate on straight section of cable at least 2 from fibre boot



Part Number	Part Description	Std. Pkg. Qty.*	Std. Ctn. Qty.
NWSLC-2	Cable identification sleeve, 2mm cable, yellow.	100	1000
NWSLC-3	Cable identification sleeve, 3mm cable, orange.	100	1000
NWSLC-7	Cable identification sleeve for 3mm duplex fibre cable, white.	100	1000

* Order number of sleeves required.
For installation instructions please refer to page 352 in the Labelling and Administration section.

NOTES

RACKS AND CABLE MANAGEMENT

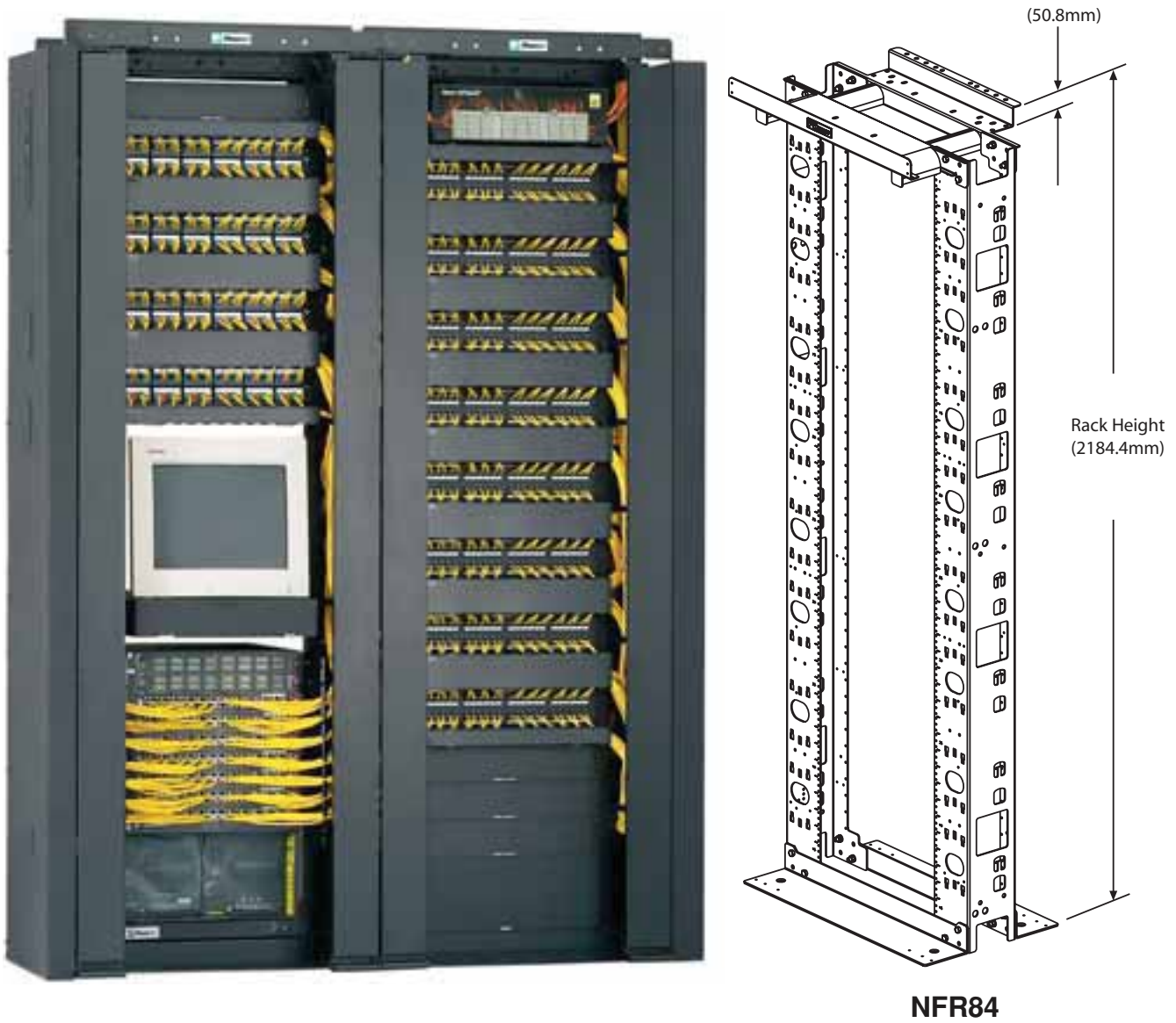
PANDUIT™ is a world leader in high quality racks and cable management solutions for telecommunication equipment rooms and premises wiring applications. As the demand for system performance increases, it becomes essential to protect and manage cables in order to maintain system reliability. *PANDUIT* continues to provide innovative products that create the ultimate solutions for managing, protecting and showcasing your network.



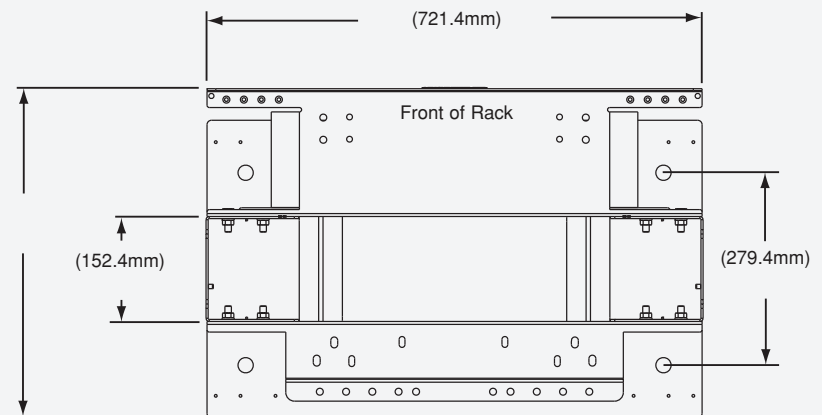
- Multiple options allow user to configure system to their preferences
- Integral bend radius control helps protect cable from being pinched, crushed or strained
- Easy access to cable pathways simplifies moves, adds and changes while allowing the user to maintain an organised system
- Modular design allows for use with all *PAN-NET™* products to provide an aesthetically pleasing solution
- Easy field installation of components provides the lowest installed cost

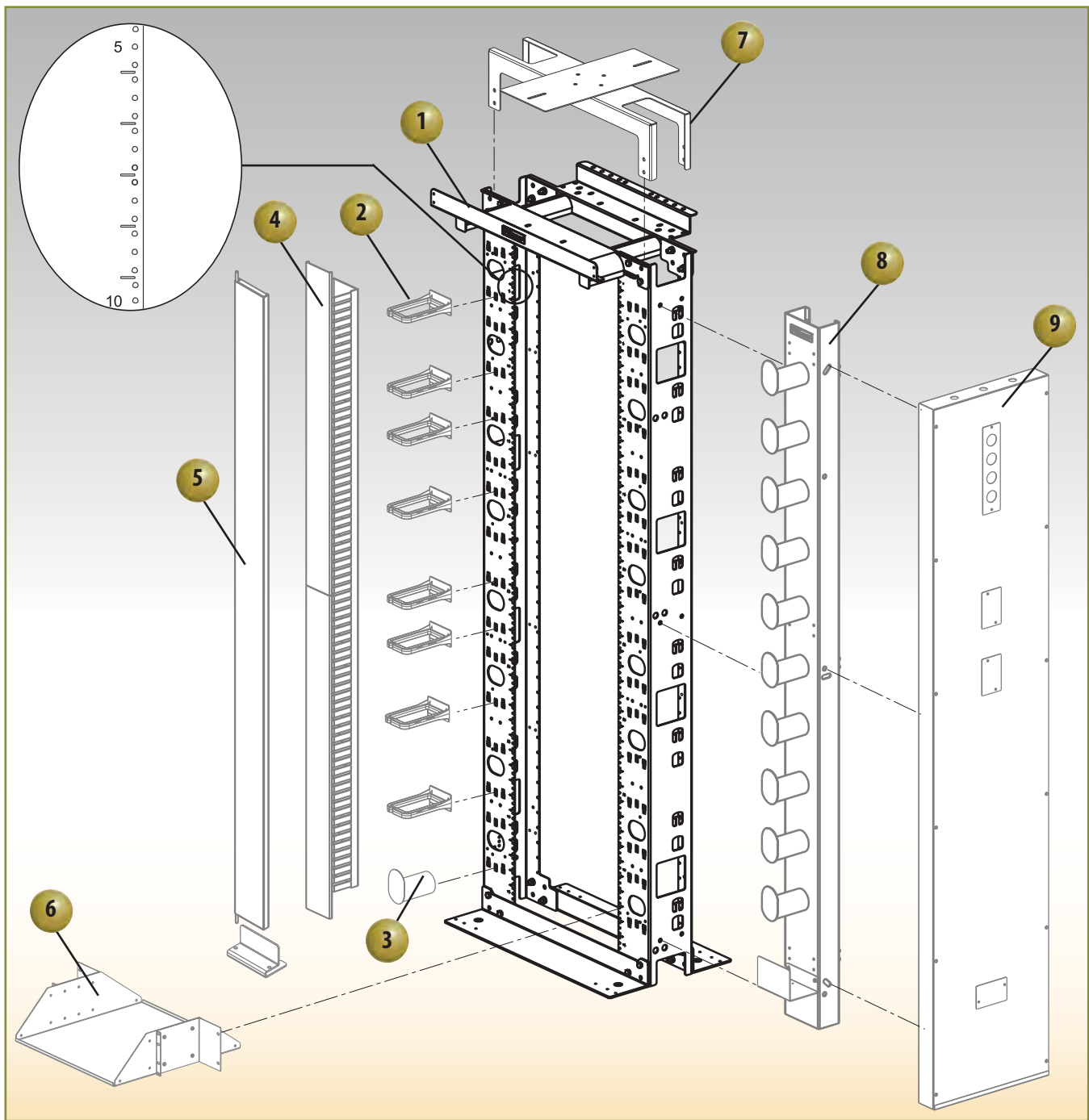
PANDUIT offers a wide variety of racks and cable management products that organise and protect your network as it expands while maintaining a professional appearance. Features such as integral bend radius control and cable retainers contribute to make the *NETMANAGER™* horizontal cable manager the new standard. Integral bend radius control and large capacity options contribute to make the *PATCHRUNNER™* Vertical Cable Manager the solution that maximises density in minimal floor space. The *NETFRAME™* Rack System provides a heavy-duty solution with a large selection of accessories that allow it to be used in a variety of applications. *PANDUIT* provides all of the options necessary to handle the most demanding installations while providing the flexibility to facilitate system upgrades now and in the future.

NETFRAME™ Cable Management Rack System Roadmap



Footprint for NETFRAME Rack





1 NETFRAME Rack — 7'
NFR84 (page 132)

2 D-ring Kit (8 each), 4x6 —
Capacity: 275 cables (.187 dia)
NFDR4X6K (page 134)

3 Fibre Spool Kit
NFSK (page 134)

4 4x5 Duct with Cover —
Capacity: 240 cables (.187 dia)
NFVD4X584 (page 134)

5 Hinged Door (1 each)
NFD484 (page 134)

6 NETFRAME Shelf
NFSHLF19X18 (page 134)

7 Ladder Rack Support Bracket
NFLRB (page 134)

8 Vertical Slack Manager
NFVSM (page 134)

9 End Panel
NFEP (page 134)

NEW! NETFRAME™ Rack System

- Rack is UL listed for 682kg load rating to accommodate large networking equipment
- Pass through holes on front and side of channels provide convenient patching front to back or between rack
- Heavy duty shelves available to accommodate network equipment
- Deep vertical channel design provides distribution cable pathway
- Top channel provides pathway for ladder rack
- Compatible with horizontal cable management panels, Opticom Fibre Optic Enclosures and *MINI-COM™* Rack Mount Products
- Easy field installations
- Multiple vertical cable management options are simple to install and allow users to configure system to their preferences
- Optional full length hinged metal door provides easy access to vertical pathway



Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
NETFRAME™ Rack				
NFR84	NetFrame Rack, 2133.6mm H	45	1	—
NETFRAME™ Rack Accessories				
NFD484	Hinged door 101.6mm x 2133.6mm	45	1	—
NFDR4X6K	D-ring kit (8) 101.6mm x 152.4mm	—	1	—
NFVD4X584	NetFrame duct accessory, front only. Dimensions 100mm W x 125mm D x 2133mm H	45	1	—
NFSK	Fibre spool kit, 1 spool with hardware.	—	1	10
NFSHLF19X25	NetFrame shelf 19" mount x 635mm deep	1	1	—
NFSHLF19X18	NetFrame shelf 19" mount x 457.2mm deep	1	1	—
NFVSM	Vertical slack manager, front only.	—	1	—
NFEP	End panel	—	1	—
NFLRB	Ladder rack support bracket	—	1	—

[^]One rack space = 44.45mm
All product colour is black.

NetRack Cable Management System and Accessories

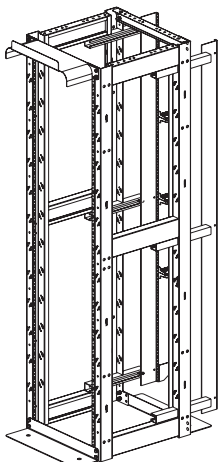
- Modular System with 19" or 23" EIA rack mounting
- Base rack includes 23" width (19" mounting) to allow user to stay within the footprint of a 600mm floor tile in stand-alone and bayed configurations
- Optimised for use in data centres to support active equipment and manage network cabling.
- Vertical cable management options include plastic vertical d-rings and slotted duct



Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
DR84	NetRack Cable Management Rack System 19" or 23" x 2133.6mm	1	—	—
DRD284	50.8mm x 2133.6mm hinged metal door	1	—	—
CMVDR1-8	50.8mm x 127mm vertical d-ring kit	8	—	—
WMPVFM45	Front only, slotted duct 101.6mm x 127mm	1	—	—

NEW! 4 Post Rack and Accessories

- Rack features 19" or 23" EIA mounting
- Adjustable rear mounting rails provide a mounting depth of 304.8mm to 787.40mm
- Rack space identification stamped into rails at each rack space
- Base can be setup 610mm x 610mm for raised floor applications
- Top waterfall
- Multiple holes on top cross braces accommodate up to 381mm ladder rack 454.5kg load rating
- Two vertical cable management options



NF4PR84



NF4PDR2X6K



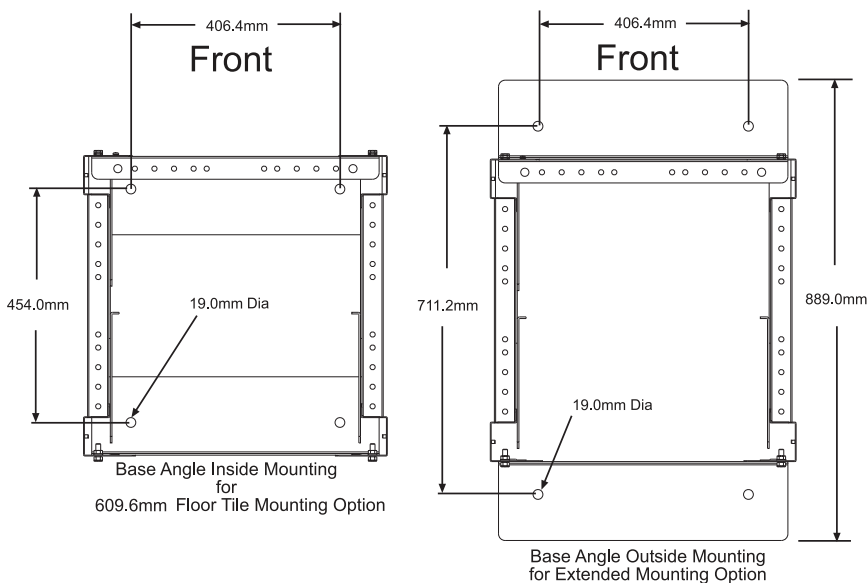
NF4PVD2X5



NF4PSHLF19

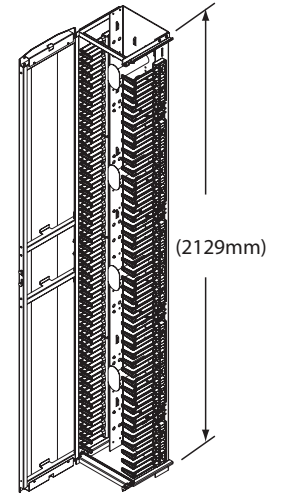
Part Number	Part Description	No. of Rack Spaces	Std. Pkg. Qty.	Std. Ctn. Qty.
4 Post Rack				
NF4PR84	4 post rack, 2134mm	45	1	—
4 Post Rack Accessories				
NF4PDR2X6K	4 post rack d-ring kit (8) 50.8mm x 152.4mm.	—	1	10
NF4PVD2X5	4 post rack, 2 x 5 vertical duct accessory, front only. Dimensions 50.8mm x 127mm x 177.8mm	45	1	—
NF4PSHLF19	4 post rack shelf 19" (482.60mm) Dimensions 43.1mm H x 482.60mm W x 815.30mm D	1	1	—

All product colour is black.

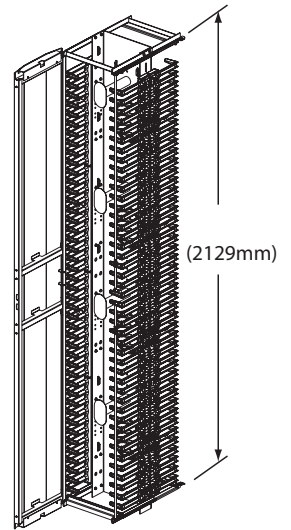


NF4PR84 Rack Footprint

PATCHRUNNER™ Vertical Cable Management Rack System Roadmap

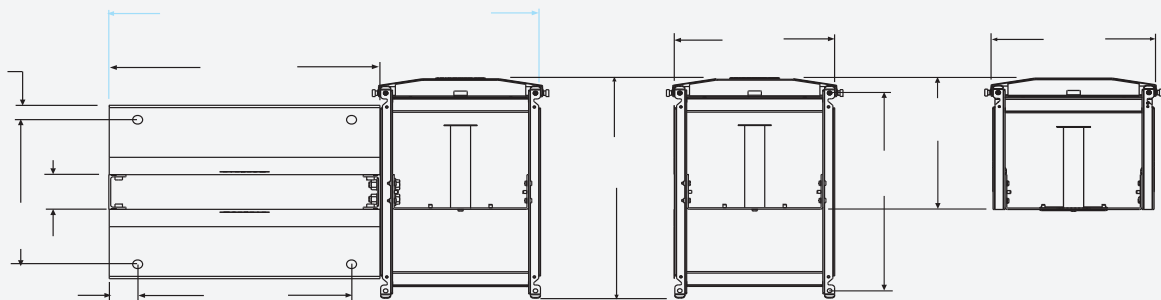


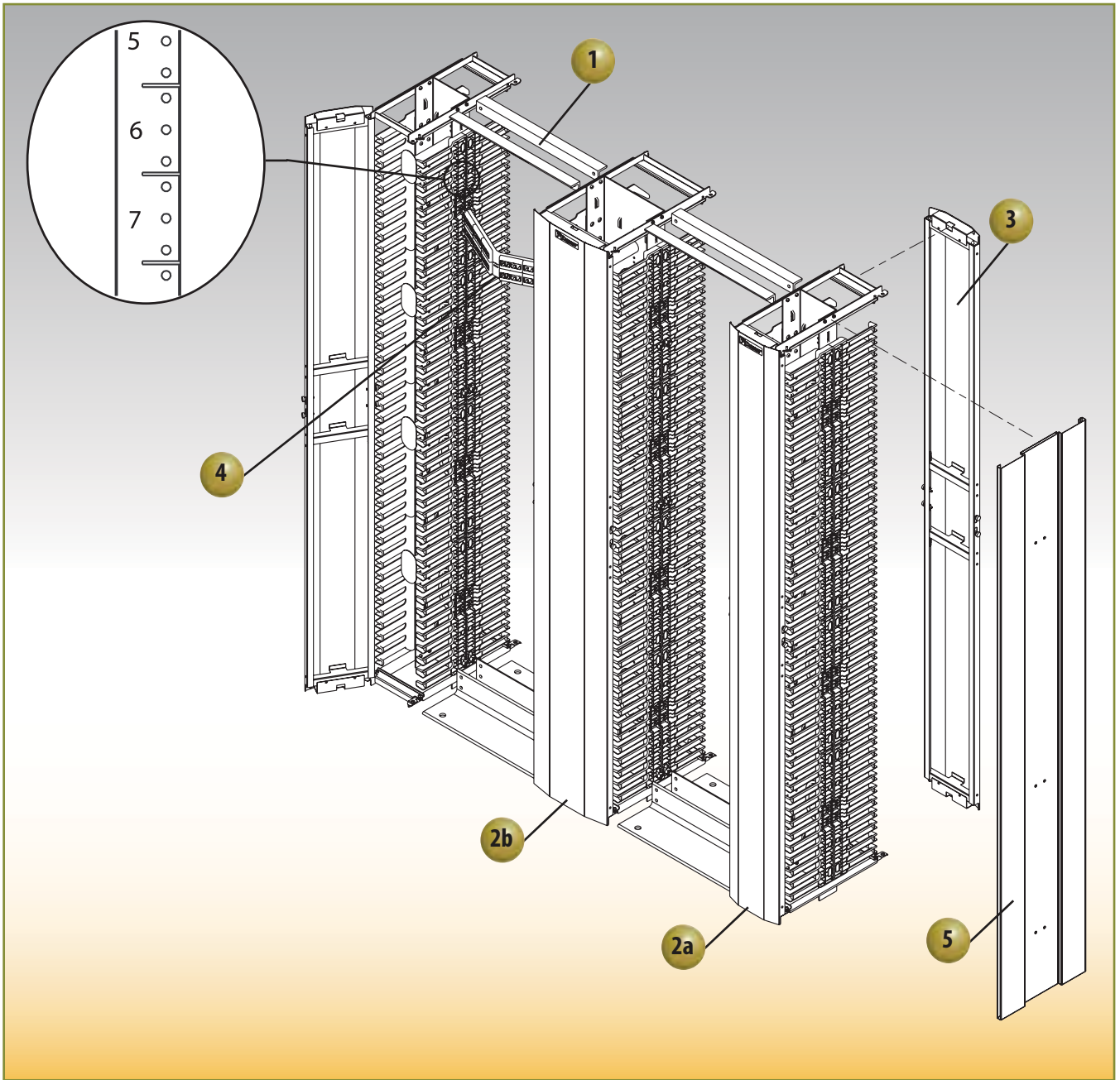
NCMVF12



NCMV12

Footprint for Standard Equipment Rack with NCMV12 and NCMVF12





1 Standard Equipment Rack — 19" x 2133.60mm
CMR19X84 (page 142)

2a Managers with Front Doors
NCMV8 — 203.2mm Wide (page 137)

2b Managers with Front Doors
NCMV12 — 304.8mm Wide (page 136)

3 Rear Door
NCMV8RD — 203.20mm Wide (page 137)

4 Angled Patch Panel
CPPLA48WBL — 2RU, 48 Port (page 60)

5 End Panel
PREP (page 138)

NEW! **PATCHRUNNER™ Vertical Cable Management System**

- Moulded cable management fingers with integral bend radius control supports cable as it transitions from patch panel to vertical pathway without the need for horizontal cable managers
- Finger spacing aligns with the rack spaces simplifying cable routing
- Four modular cable management spools organise and manage slack for 8 and 12 product allowing standardisation of patch cord lengths
- Dual hinged full length door optional
- Angled modular patch panel provides optimal patch cord bend radius control
- Rack spacing identification and load rating of 364kg provided when mounted to *PANDUIT™* Standard Equipment Rack



PRVF12

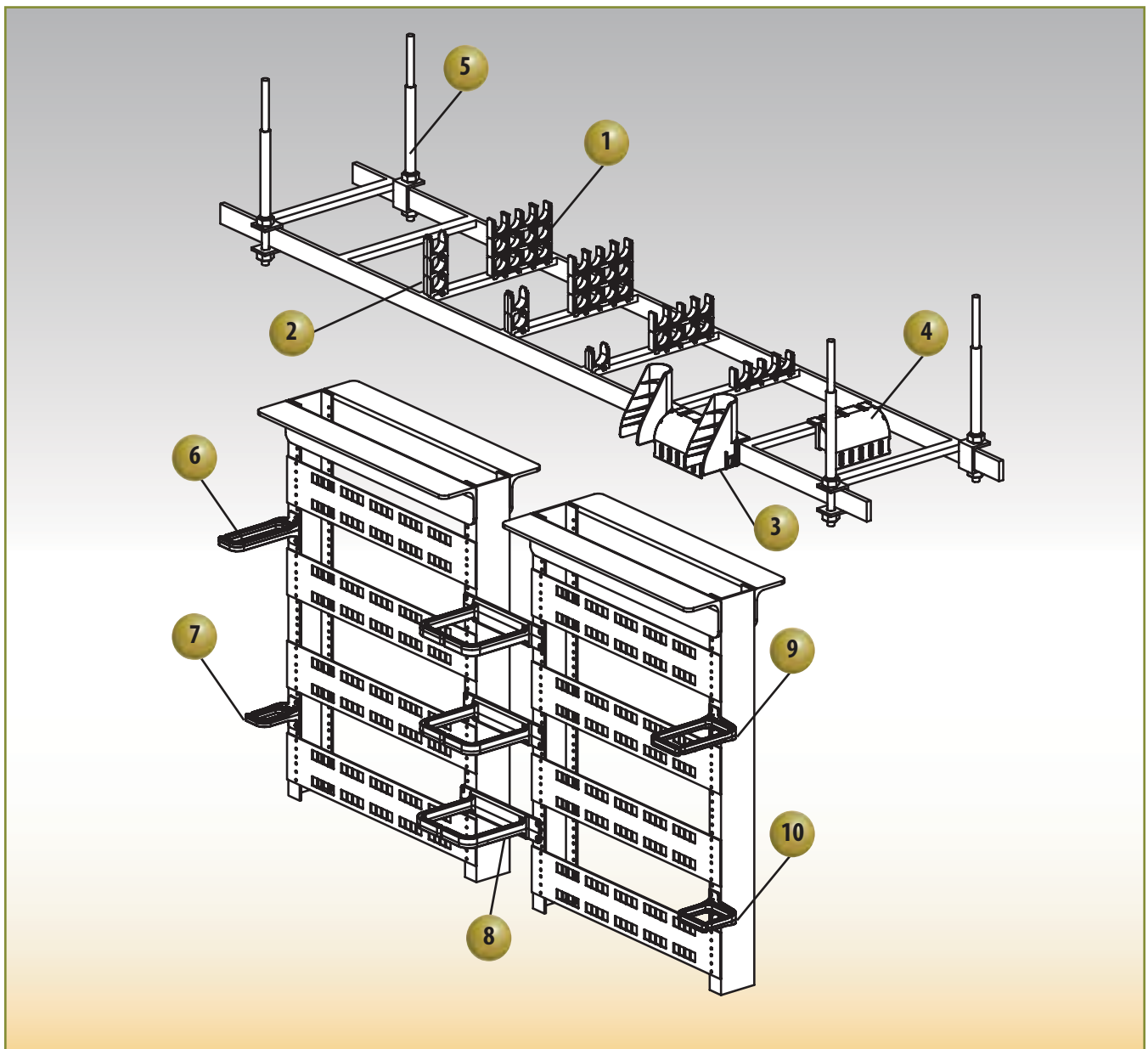
Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PATCHRUNNER Vertical Managers - Manages cable on front and rear of rack			
PRV6	Vertical cable manager. 152.4mm x 2139.6mmH	1	—
PRV8	Vertical cable manager. 203.2mm x 2139.6mmH	1	—
PRV12	Vertical cable manager. 304.8mm x 2139.6mmH	1	—
PATCHRUNNER Vertical Managers - Manages cable on front of rack only			
PRVF6	Vertical cable manager, front only. 152.4mm x 2139.6mmH	1	—
PRVF8	Vertical cable manager, front only. 203.2mm x 2139.6mmH	1	—
PRVF12	Vertical cable manager, front only. 304.8mm x 2139.6mmH	1	—
PATCHRUNNER Accessories			
PRSP7	177.8mm Dia. PatchRunner Spool	1	10
PREP	PatchRunner End Panel	1	10
PATCHRUNNER - Additional Doors			
PRD6	Dual hinged door. 152.4mmW	1	—
PRD8	Dual hinged door. 203.2mmW	1	—
PRD12	Dual hinged door. 304.8mmW	1	—

All product colour is black.

Capacity Chart

Part Number	Description	4.74mm Dia. Cable	
		Front	Back
PRV12	304.8mm wide front/back	960	640
PRVF12	304.8mm wide front	960	N/A
PRV8	203.2mm wide front/back	480	320
PRVF8	203.2mm wide front	480	N/A
PRV6	152.4mm wide front/back	380	250
PRVF6	152.4mm wide front/back	380	N/A

Communication Cable Management Accessories Roadmap



1 4 space Stackable Cable Rack Spacers
CRS4-125-X (page 152)

2 1 space Stackable Cable Rack Spacers
CRS1-125-X (page 152)

3 Waterfall Kit
CMW-KIT (page 152)

4 Waterfall Base
CMWB (page 152)

5 Threaded Rod Cover
TRC18FR-X8 (page 214)

6 1" = 25.4mm Vertical D-ring
CMVDR1 (page 150)

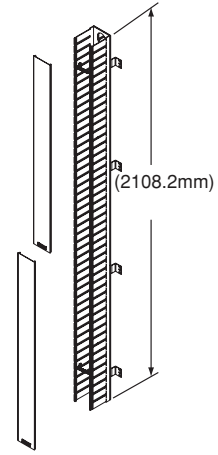
7 1" = 50.8mm Short Vertical D-ring
CMVDR1S (page 150)

8 Centre Mounted Vertical D-ring
CMVDR (page 150)

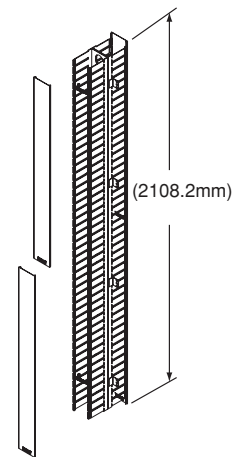
9 50.8mm Vertical D-ring
CMVDR2 (page 150)

10 50.8mm Short Vertical D-ring
CMVDR2S (page 150)

Standard Cable Management Rack System Roadmap

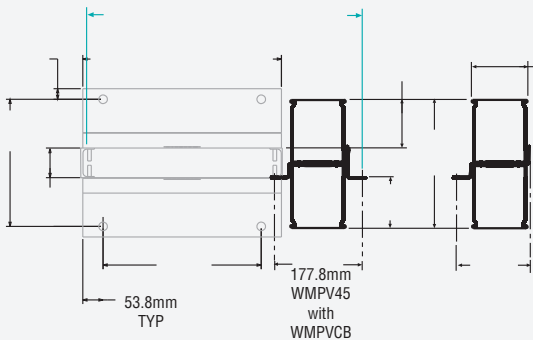


WMPVF45

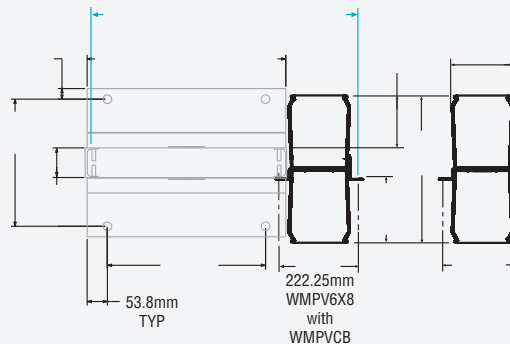


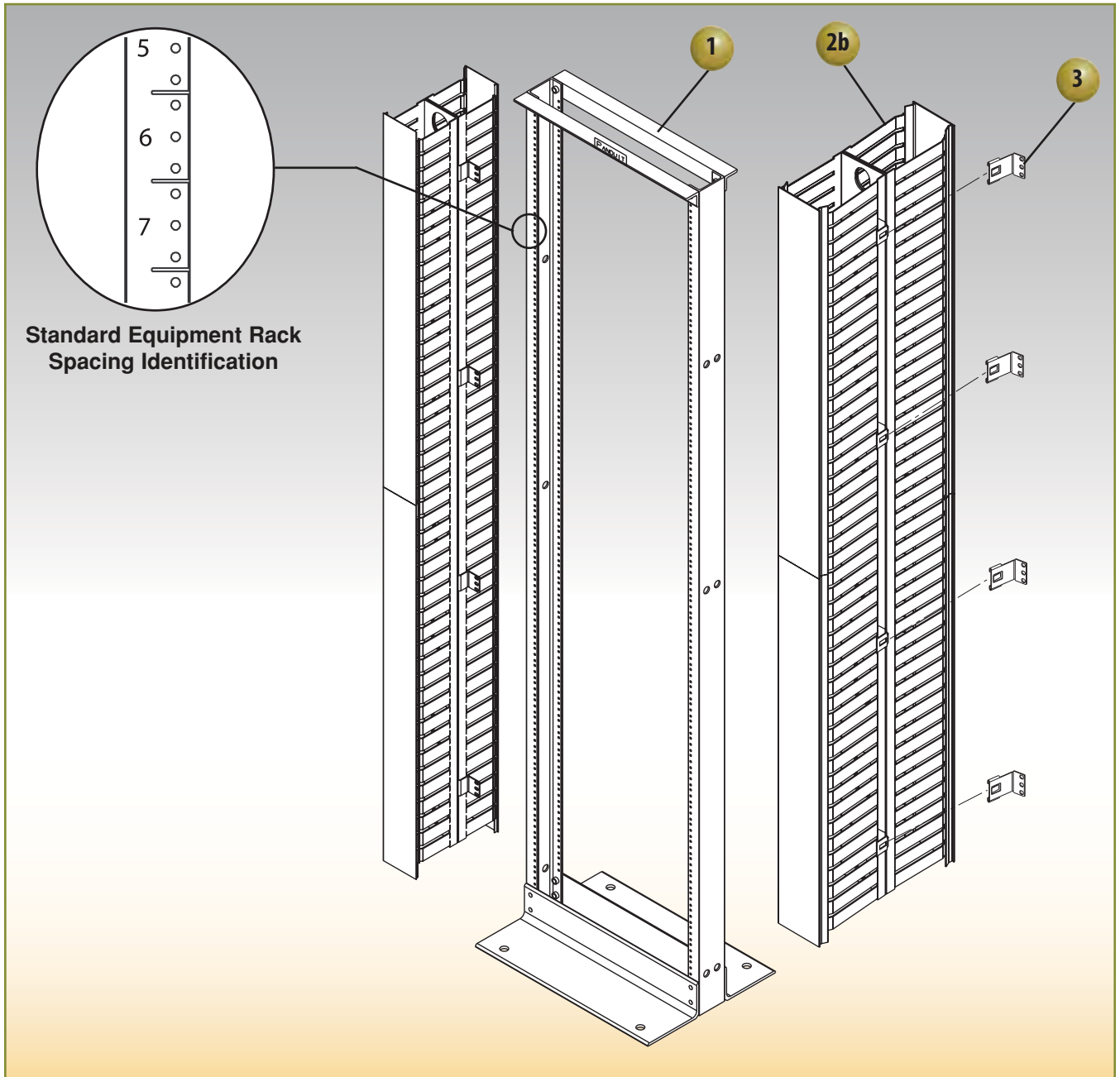
WMPV45

Footprint for Standard Rack with 4x5 Vertical Managers



Footprint for Standard Rack with 6x8 Vertical Managers





1 Standard Equipment Rack
CMR19X84 (page 142)

2b Standard Vertical Cable Managers
WMPV6X8 (page 145)

2a Standard Vertical Cable Managers
WMPV45 (page 140)

3 Centre Bracket Kit (4 brackets included) —
Use when mounting between racks
WMPVCB (page 145)

Standard Racks and Accessories

- Can be used with all *PANDUIT™* cable management and patch panel products in addition to any industry standard 19" or 23" components
- Aluminium racks feature individually printed rack space numbering

- Aluminium racks equipped with pre-installed hardware for quick assembly
- Double-sided #12-24 EIA universal mounting hole spacing
- #12-24 mounting screws included, qty 25
- 363kg load rating for 2133.6mm racks



CMR19X84



CMLT19



CMUT19

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
Standard Channel Racks				
CMR19X84	19" standard rack 2133.6mm aluminium.	45	1	—
CMR19X84S	Standard EIA 19" rack 2133.6mm, steel.	45	1	—
CMR23X84	23" standard rack, 2133.6mm, aluminium.	45	1	—
CMR19X47	19" standard rack 1194mm aluminium.	24	1	—
CMR19X26	19" standard rack, 660mm aluminium	13	1	—
S1224-C	Package of 100 12-24 mounting screws	—	100	1000

Rack Mount Troughs

CMLT19	Lower trough mounts to the bottom of a 19" rack. Provides bend radius control and additional facility for routing cable from one rack to another.	4	1	—
CMUT19	Upper trough mounts to the top of a 19" rack. Provides bend radius control and additional facility for routing cable from one rack to another.	2	1	—

[^]One rack space = 44.45mm
All product colour is black.

Rack Mountable Troughs

- Provide pathways to route cable from one side of a rack to the other or between racks (when bayed together)
- Offer greater flexibility when configuring network layout
- Integral waterfalls protect cable from crushing, ensuring system reliability

- Mount to channels of standard EIA 19" racks to create 'in-rack' pathway
- Allow easy moves, adds and changes
- Eliminates need to route underfloor or overhead cables



CRTW

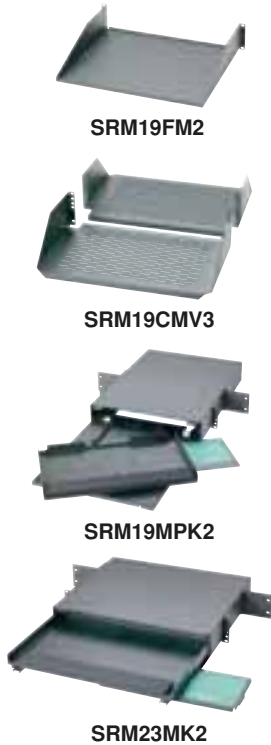


CMT4

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CRTW	Rack Top Trough with Waterfall	1	—
CMT4	Bottom Cable Management Trough	1	—

NEW! Shelves

- Options with load ratings up to 90kg suitable for use with lightweight and heavyweight active and passive equipment
- Options for standard (20 wide) or compact (16.5 wide) keyboards
- Slide out mouse pad integral to all keyboard shelves



Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.
Rack Mount Shelves			
SRM19FM1	Front mount shelf, steel. Dimensions 43.9mm H x 482.7mm W x 384.8mm D, 1 RU Load rating 13.5kg.	1	1
SRM19FM2	Front mount shelf, steel. Dimensions 88.4mm H x 482.65mm W x 384.8mm D, 2 RU Load rating 22.7kg.	2	1
SRM19CMV3	Cantilevered shelf, vented, aluminium. Dimensions 132.8mm H x 488.7mm W x 316.2mm D, 3 RU Load rating 90kg.	3	1
SRM19CM3	Cantilevered shelf, aluminium. Dimensions 132.8mm H x 488.7mm W x 316.2mm D, 3 RU Load rating 90kg.	3	1
Keyboard Shelves			
SRM19MPK2	Rack mount shelf with pivoting keyboard tray and mousepad, aluminium. Dimensions 87.17mm H x 431.8mm W x 609.6mm D	2	1
SRM19MK2	Rack mount shelf with keyboard tray, aluminium. Dimensions 87.17mm H x 431.8mm W x 469.33mm D	2	1
SRM23MK2	Rack mount shelf with pivoting keyboard tray and mousepad, aluminium. Dimensions 87.17mm H x 533.4mm W x 469.33mm D	2	1

[^]One rack space = 44.45mm
All product colour is black.

NEW! Panel Extender Brackets

- Allows for mounting 19" product on 23" EIA racks or cabinets
- Offset bracket design maintains flush mounting of panels
- Mounting hardware included

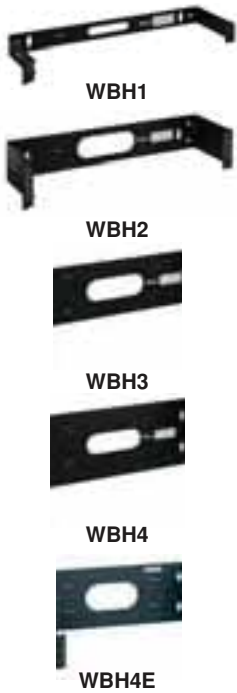


Part Number	Part Description	No. of Rack Spaces	Std. Pkg. Qty.
PEB1	Converts horizontal panels.	1	1
PEB2	Converts horizontal panels.	2	1
PEB22	Converts rack from 23" to 19"	22	1
PEB44	Converts rack from 23" to 19"	44	1

All product colour is black.

Hinged Wall Brackets

- Mount to wall or standard EIA 19" racks
- Integral cable tie slots manage cable slack
- EIA hole spacing
- Hinge allows easy access to cabling
- Opening on base allows for cable access through wall
- Stackable for larger installations
- Includes white write-on labelling area
- Accepts #12-24 EIA universal mounting hole spacing
- Quick release hinged design for fast moves, adds and changes



Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.
152mm Deep Wall Brackets			
WBH1	Hinged wall bracket, 1RU. Dimensions 44.5mm H x 507.9mm W x 155.8mm D	1	1
WBH2	Hinged wall bracket, 2RU. Dimensions 88.9mm H x 507.9mm W x 155.8mm D. Load rating 9 kgs	2	1
WBH3	Hinged wall bracket, 3RU. Dimensions 133.4mm H x 507.9mm W x 155.8mm D.	3	1
WBH4	Hinged wall bracket, 4RU. Dimensions 177.8mm H x 507.9mm W x 155.8mm D. Load rating 18 kgs	4	1
381mm Deep Wall Brackets			
WBH2E	Hinged wall bracket, 2RU. Dimensions 88.9mm H x 518.7mm W x 401.5mm D. Load rating 9 kgs	2	1
WBH4E	Hinged wall bracket, 4RU. Dimensions 177.8mm H x 518.7mm W x 401.5mm D. Load rating 18 kgs	4	1
WBH6E	Hinged wall bracket, 6RU. Dimensions 266.7mm H x 518.7mm W x 401.5mm D. Load rating 27 kgs	6	1

[^]One rack space = 44.45mm
All product colour is black.

Filler Panels

- Filler panels reserve rack space for future use and help keep installations manageable by acting as a divider
- Mounts to standard EIA 19" racks or cabinets
- Stackable
- Includes #12-24 mounting screws



Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
DPFP1	Filler panel, 1RU. Dimensions 43.7mm H x 482.6mm W	1	1	10
DPFP2	Filler panel, 2RU. Dimensions 88.1mm x 482.6mm	2	1	10
DPFP4	Filler panel, 4RU. Dimensions 177.0mm H x 482.6mm W	4	1	10
DPFP8	Filler panel, 8RU. Dimensions 354.8mm H x 482.6mm W	8	1	10

[^]One rack space = 44.45mm
All product colour is black

Standard Vertical Slotted Duct

- Standard bracket allows side mounting WMPVCB kit option allows mounting to adjacent racks
- Duct finger progression equivalent to one rack space (44.45mm), allowing clear pathway between horizontal and vertical cable management when finger is removed
- Organises cables on front and rear of telecommunication racks
- Rear mount options for use with standard 3 channel racks
- Front mount options for standard deep channel racks
- Covers are easily removable so cables are accessible for quick revisions
- Panel supplied as side mount version
- Supplied with mounting brackets, screws and covers
- Cables pass through holes for front to rear cabling
- Wire retainer holds cable in place when cover is removed



Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.
Rear Mount - Manages Cables on Front and Rear of Rack			
WMPV3X5	Includes duct on front and rear. Dimensions 76.2mm W x 127mm D x 2108.2mm H	45	1
WMPV20	Includes duct on front and rear. Dimensions 102mm W x 127mm D x 889mm H	20	1
WMPV45	Includes duct on front and rear. Dimensions 102mm W x 127mm D x 2108.2mm H	45	1
WMPV50	Includes duct on front and rear. Dimensions 102mm W x 127mm D x 2413mm H	50	1
WMPVHC45	Includes duct on front and rear. Dimensions 152mm W x 203.2mm D x 2108.2mm H	45	1
WMPV6X8	Includes duct on front and rear. Dimensions 152.4mm W x 203.2mm D x 2108.2mm H	45	1
Rear Mount - Manages Cables on Front of Rack Only			
WMPVF3X5	Includes duct on front only. Dimensions 76.2mm W x 127mm D x 2108.2mm H	45	1
WMPVF20	Includes duct on front only. Dimensions 102mm W x 127mm D x 889mm H	20	1
WMPVF45	Includes duct on front only. Dimensions 102mm W x 127mm D x 2108.2mm H	45	1
WMPVHCF45	Includes duct on front only. Dimensions 152mm W x 203.2mm D x 2108.2mm H	45	1
WMPVF6X8	Includes duct on front only. Dimensions 152mm W x 203.2mm D x 2108.2mm H	45	1
Centre Mount Kit			
WMPVCB	Bracket kit to mount vertical cable managers to and between two adjacent racks. Includes four brackets. Not for use with WMPV3X5, WMPVF3X5, WMPVFM45, and WMPVFMHC45.	—	1
Front Mount - Manages Cables on Front of Rack Only			
WMPVFM45	Includes duct on front only. Dimensions 102mm W x 127mm D x 2108.2mm H	45	1
WMPVFMHC45	Includes duct on front only. Dimensions 152mm W x 152mm D x 1208mm H	45	1

[^]One rack space = 44.45mm
All product colour is black.

Angled Filler Panels

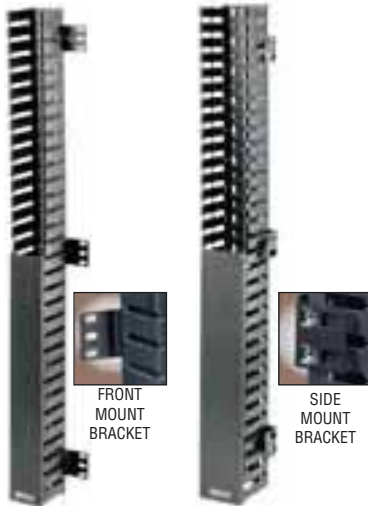
- Aesthetic design provides a clean and consistent look when used with PANDUIT™ Angled Patch Panels

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
CPAF1BL	Covers one open rack space in standard EIA 19" rack.	1	1	10
CPAF2BL	Covers two open rack spaces in standard EIA 19" rack.	2	1	10

[^] One rack space = 1.75" (44.45mm)

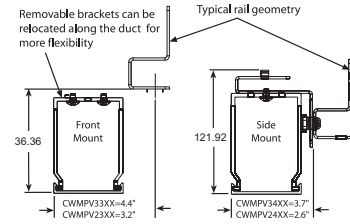
IN-Cabinet Vertical Cable Managers

- For managing cable within cabinets 685mm or wider
- Easy to install to cabinet vertical mounting rails
- Two mounting bracket options to facilitate mounting to various cabinet configurations
- Covers included



CWMPV3440

CWMPV2318



CWMPHF1

Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.
Side Mount Vertical Panels - Front Only			
CWMPV3440	Duct with side mount bracket, cage nut and screws. Dimensions 76mm W x 102mm D x 1829mm H. 4.75mm Dia cable capacity = 96	40	1
CWMPV3418	Duct with side mount bracket, cage nut and screws. Dimensions 76mm W x 102mm D x 813mm H. 4.75mm Dia cable capacity = 96	18	1
CWMPV2440	Duct with side mount bracket, cage nut and screws. Dimensions 51mm W x 102mm D x 1829mm H. 4.75mm Dia cable capacity = 60	40	1
CWMPV2418	Duct with side mount bracket, cage nut and screws. Dimensions 51mm W x 102mm D x 813mm H. 4.75mm Dia cable capacity = 60	18	1
Front Mount Vertical Panels - Front Only			
CWMPV2340	Duct with front mount bracket. Dimensions 51mm W x 76mm D x 829mm H. 4.75mm Dia cable capacity = 48	40	1
CWMPV2318	Duct with front mount bracket. Dimensions 51mm W x 76mm D x 813mm H. 4.75mm Dia. cable capacity = 48	18	1
CWMPV3340	Duct with front mount bracket. Dimensions 76mm W x 76mm D x 1829mm H. 4.75mm Dia cable capacity = 72	40	1
CWMPV3318	Duct with front mount bracket. Dimensions 76mm W x 76mm D x 813mm H. 4.75mm Dia cable capacity = 72	18	1
Front Mount Horizontal Panels			
CWMPH1	19" Horizontal wire management panel with duct front and back. Dimensions 43.7mm H x 144.8mm D x 482.6mm W .187 Dia. cable capacity = 24 front, 36 back	1	1
CWMPHF1	19" Horizontal wire management panel with duct front only. Dimensions 43.7mm H x 40.6mm D x 482.6mm W .187 Dia. cable capacity = 24 front	1	1

[^]One rack space = 44.45mm
All product colour is black.

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: 24 Nylon Cable Ties 12 Adhesive Backed Cable Tie Mounts 1 Roll (4.5m) 8.38mm. TAK-TY™ Cable Ties 8 Flat Pan-Post Standoffs for use with Std. Nylon Cable Ties 4 Vertical Wire Saddles 6 Push Style Cable Tie Mounts	1	100
CCMKIT2	Kit includes the following: 1 Roll (4.5m) 0.75. TAK-TY™ Cable Ties 12 Nylon Cable Ties 6 Adhesive Backed Cable Tie Mounts 6 Adhesive Backed Mounts for 0.75 TAK-TY™ Cable Ties 6 Screw Mounts for 0.75 TAK-TY™ Cable Ties 4 Vertical Wire Saddles 6 Flat Pan-Post Standoffs for use with 0.75 TAK-TY™ Cable Ties	1	100

*Order the number of kits required

NETMANAGER™ Horizontal Cable Managers



- Removable front cover hinges 180° up or down
- Built-in cable retainers
- Integral bend radius control throughout all cable pathways
- Pass through holes allow front to rear cabling
- Mounts to 19" EIA rack or cabinet



Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
NetManager Panels				
NCMHF1	Horizontal cable manager, front only, 38mm x 76.2mm. Total width 482.6mm	1	1	—
NCMHF2	Horizontal cable manager, front only, 76.2mm x 76.2mm. Total width 482.6mm	2	1	—
NCMH2	Horizontal cable manager, front, 76.2mm x 76.2mm, rear 50.8mm x 127mm. Snap-on rear cover.	2	1	—
Replacement Covers				
NCMH1-RFC	Replacement front cover for 1RU horizontal cable manager.	1	1	10
NCMH2-RFC	Replacement front cover for 2RU horizontal cable manager.	2	1	10

[^]One rack space = 44.45mm
All product colour is black.

NEW! PATCHLINK™ Horizontal Cable Managers

- Patented dual hinged cover allows cable access without removing cover
- Pass through holes allow front to rear cabling
- Flexible front fingers allow easy moves, adds and changes of patch cords
- Flexible rear fingers allows access for cable termination of patch panel
- Rear pathway allows cable routing around rack channels into vertical cable management
- Mounts to 19" EIA standard rack or cabinet

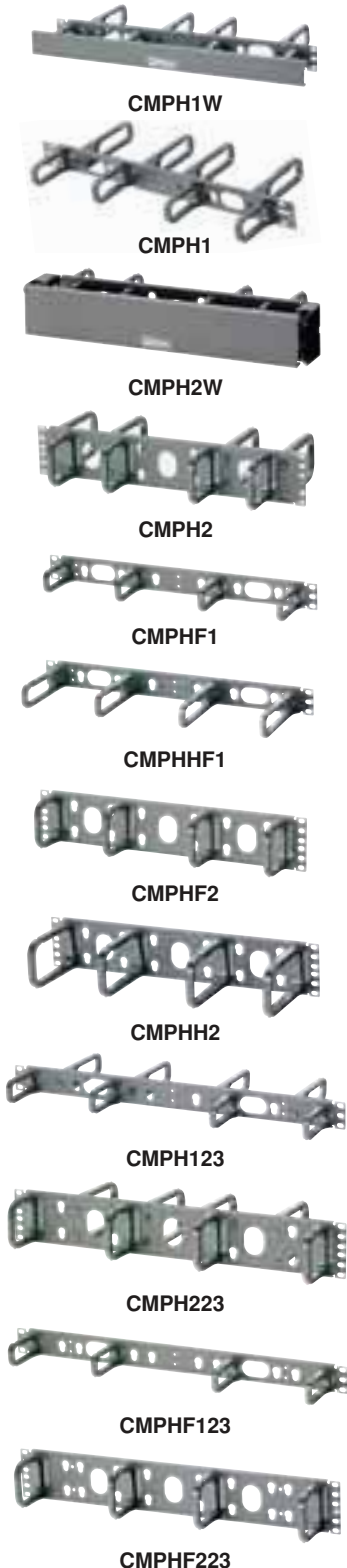


Part Number	Part Description	No. of Rack Spaces	Std. Pkg. Qty.
19" Manager, Front and Rear, 1 RU			
WMP1SE	Includes 38.1mm x 76.2mm front, 25.4mm x 127mm rear duct and mounting screws. Total width 19" (482.6mm).	1	1
WMPSE	One rack space horizontal cable manager, duct and cover; 38.1mm x 76.2mm on front and 25.4mm x 101.6mm on rear. Includes 2 strain relief clips and mounting screws.	1	1
19" Manager, Front and Rear, 2 RU			
WMP1E	Includes 76.2mm x 76.2mm front and 50.8mm x 127mm rear duct with cover. Includes 2 strain relief clips and mounting screws.	2	1
WMPH2E	Includes 76.2mm x 76.2mm duct on front, 50.8mm x 127mm duct on rear, 2 bend radius control clips, 2 strain relief clips, mounting screws, wire retainers and front and rear covers. Total width 512.7mm	2	1
19" Manager, Front Only, 1 RU			
WMPFSE	One rack space horizontal cable manager, duct and cover, 38.1mm x 76.2mm on front only. Includes mounting screws.	1	1
WMP1FSE	Includes 38.1mm x 76.2mm front duct and mounting screws. Total width 482.6mm.	1	1
19" Manager, Front Only, 2 RU			
WMPF1E	Two rack space horizontal cable manager, duct and cover, 88.9mm x 81.5mm on front only. Includes 3 wire retainers and mounting screws.	2	1
WMPHF2E	Includes 76.2mm x 76.2mm duct on front, 2 bend radius control clips, mounting screws, 3 wire retainers and front cover. Total width 512.7mm	2	1

O2 Rack Space Panels: 72 Category 5e, 24 AWG, 4 pair UTP cables per side

OPEN-ACCESS™ Cable Management

- Unique snap on D-rings for complete flexibility
- Mounts to standard EIA standard 19" or 23" racks and cabinets
- Pass through holes allow front to rear cabling
- Patented cable manager ring
- Optional snap-on cover
- Flexible material allows D-ring arm to rotate allowing entire cable bundle to be inserted and removed

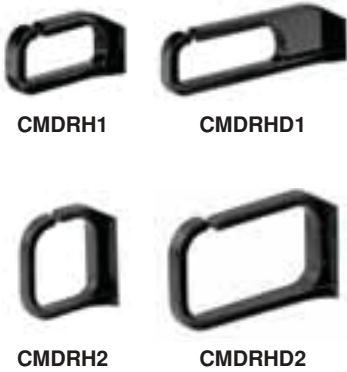


Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.
19" Manager, Front and Rear, 1RU			
CMPH1W	Includes pre-assembled D-rings on front and rear with cover. Front D-ring size 38mm x 76mm Rear D-ring size 38mm x 127mm	1	1
CMPH1	Includes pre-assembled D-rings on front and rear. Front D-ring size 38mm x 76mm Rear D-ring size 38mm x 127mm	1	1
19" Manager, Front and Rear, 2RU			
CMPH2W	Includes pre-assembled D-rings on front and rear, cover and bend radius control clips. Front D-ring size 76mm x 76mm Rear D-ring size 76mm x 76mm	2	1
CMPH2	Includes pre-assembled D-rings on front and rear. Front D-ring size 76mm x 76mm Rear D-ring size 76mm x 127mm	2	1
19" Manager, Front Only, 1RU			
CMPHF1	Includes pre-assembled D-rings on front. Front D-ring size 38mm x 76mm.	1	1
CMPH1F	Includes pre-assembled D-rings on front only. Front D-ring size 38mm x 127mm	1	1
19" Manager, Front Only, 2RU			
CMPHF2	Includes pre-assembled D-rings on front. Front D-ring size 76mm x 76mm.	2	1
CMPH2F	Includes pre-assembled D-rings on front Front D-ring size 76mm x 127mm	2	1
Optional Covers			
CMPH1C	Replacement cover for 1 RU D-ring panels. Total width 19.5" (495mm)	1	1
CMPH2C	Replacement cover for 2 RU D-ring panels. Total width 19.5" (495mm)	2	1
23" Manager, Front and Rear			
CMPH123	Includes pre-assembled D-rings on front and rear. Front D-ring size 38mm x 76mm Rear D-ring size 38mm x 127mm	1	1
CMPH223	Horizontal panel - D-rings front and rear.	2	1
23" Manager, Front Only			
CMPHF123	Includes pre-assembled D-rings on front. Front D-ring size 38mm x 76mm.	1	1
CMPHF223	Includes pre-assembled D-rings on front. Front D-ring size 76mm x 76mm.	2	1

[^]One rack space = 44.45mm
All product colour is black.
See horizontal D-rings for cable capacities (page XXX).

OPEN-ACCESS™ Horizontal D-rings

- Patented cable manager ring
- D-rings are designed to snap into OPEN-ACCESS panels only
- Flexible material allows arm to rotate so entire cable bundle can be inserted and removed



Part Number	Part Description	Cable Capacity			Std. Pkg. Qty.	Std. Ctn. Qty.
		UTP (.187)	ScTP (.250)	Fibre (3mm)		
CMDRH1	Horizontal D-ring Outside dimensions 38mm x 76mm	40	24	100	1	10
CMDRHD1	Horizontal High Capacity D-ring Outside dimensions 38mm x 127mm	52	32	132	1	10
CMDRH2	Horizontal D-ring Outside dimensions 76mm x 76mm	96	48	252	1	10
CMDRHD2	Horizontal D-ring Outside dimensions 76mm x 127mm	192	96	504	1	10

All product colour 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 90° so entire cable bundle can be inserted and removed
- Rounded edges prevent damage to cable insulation
- 6mm mounting hole allows for a variety of screws to secure the D-ring to a surface
- Creates a structured pathway and allows for open access

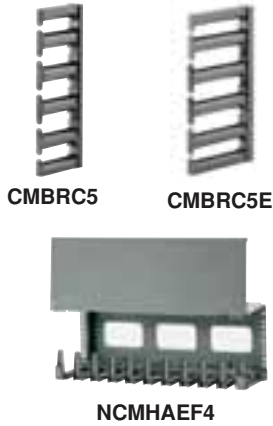


Part Number	Part Description	Cable Capacity			Std. Pkg. Qty.	Std. Ctn. Qty.
		UTP (.187)	ScTP (.250)	Fibre (3mm)		
CMVDR1	Vertical D-ring Outside dimensions 145mm L x 52mm W	96	48	252	1	10
CMVDR1S	Vertical D-ring Outside dimensions 82mm L x 52mm W	52	32	132	1	10
CMVDR2	Vertical D-ring Outside dimensions 145mm L x 83mm W	192	96	504	1	10
CMVDR2S	Vertical D-ring Outside dimensions 625mm L x 75mm W	96	48	252	1	10
CMVDRC	Centre mounted vertical D-ring for routing cables between two adjacent racks. (Requires 8.25 spacing between the centre lines of the adjacent rack's mounting holes). Outside dimensions 143mm L x 222mm W	400	200	1000	1	10

All product colour is black.

NEW! Active Equipment Cable Managers

- Options for use with active equipment that have cards (blades) oriented horizontally or vertically
- Integral bend radius control supports patch cables as they go to and from cards
- CMBRC5/5E patented bend radius control clip
- Finger spacing helps keep patch cables aligned with cards
- Mounts to EIA standard rack or cabinet



Part Number	Part Description	No. of Rack Spaces [^]	Std. Pkg. Qty.	Std. Ctn. Qty.
Vertical Managers for Horizontal Patching				
CMBRC5	Cable management bend radius clip. Dimensions 222.25mm H x 83.8mm D x 26.2mm W Capacity: 24 cables (4.75mm Dia) per rack space	5	1	10
CMBRC5E	Cable management bend radius clip. Dimensions 222.25mm H x 127.0mm D x 26.2mm W Capacity: 48 cables (4.75mm Dia) per rack space	5	1	10
Horizontal Manager with Hinged Cover for Vertical Patching				
NCMHAEF2	Horizontal active equipment manager for vertical cards (blades). Dimensions 88.99mm H x 204.3mm D x 488.9mm W	2	1	—
NCMHAEF4	Horizontal active equipment manager for vertical cards (blades). Dimensions 176.9mm H x 204.3mm D x 488.9mm W	4	1	—

[^]One rack space = 44.45mm
All product colour is black.

NEW! Bend Radius Control Accessories

- Enhances cable management on racks and cabinets



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Bend Radius Control Clips			
CMBRC1	1 RU cable management bend radius clip kit.	1	10
CMBRC1E	1 RU extended cable management bend radius control clip kit.	1	10
CMSRC2	Provides cable bend radius control and facilitates patch cable routing to and from horizontal cable management panels. Mounts directly to 19" or 23" EIA standard communication racks or cabinets (2 RU).	1	10
Strain Relief Clips			
WMSRC1	Strain relief clip, 25.4mm. Mounts to rear of rack adjacent to horizontal panels	1	10
WMSRC2	Strain relief clip, 50.8mm. Mounts to rear of rack adjacent to horizontal panels.	1	10

All product colour is black.

Bundle Retainers

- Bundle retainer supports cable in vertical or horizontal configurations
- Spring fingers with large lead-in facilitates insertion of cable bundles
- The BR.5 and BR.75 can be joined together to allow for wire breakouts



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
BR2-1.3	Bundle Retainer. Standard EIA hole spacing for mounting. Maximum bundle capacity: 50.8mm.	1	10
BR2-1.3-A	Bundle Retainer. Adhesive base and standard EIA hole spacing provides mounting options. Maximum bundle capacity: 50.8mm.	1	10

All product colour is black.

Stackable Cable Rack Spacers

- 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
- Maximise 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
- Provide attractive installations
- Mounts to ladder rack with standard cross section cable ties



CRS6-X



CRS1-X



CRS4-125-X



CRS1-125-X

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Stackable Cable Rack Spacers 0.8 OD Cable			
CRS6-X	Six space Stackable Cable Rack Spacer. Accepts cable up to 0.8 diameter.	10	100
CRS1-X	One space Stackable Cable Rack Spacer. Use with CRS6 to fill width of ladder rack. Accepts cable up to 0.8 diameter.	10	100
Stackable Cable Rack Spacers 1.25 OD Cable			
CRS4-125-X	Four space Stackable Cable Rack Spacer. Accepts cable up to 1.25 diameter.	10	100
CRS1-125-X	One space Stackable Cable Rack Spacer. Use with CRS4 to fill width of ladder rack. Accepts cable up to 1.25 diameter.	10	100

All product colour is black.

Waterfall Accessories

- Product available as a kit (includes base, 2 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



CMW-KIT



CMWB



CMWW

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
CMW-KIT	Cable management waterfall kit. Includes CMWB, 2 CMWW and cable ties.	Black	1	10
CMWB	Cable management waterfall base. Used to maintain 44.45mm 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).	Black	1	10
CMWW	Cable management waterfall wing. Used in conjunction with CMWB to maintain 25.4mm bend radius control horizontally when transferring cable off ladder rack.	Black	1	10

For white, include suffix of 10. For example: CMW-KIT10

Flat PAN-POST™ Standoff

- Standard EIA hold spacing allows product to be mounted with user supplied screws up to 6mm diameter
- Organise cables in standard cabinets and racks
- Use where space is limited



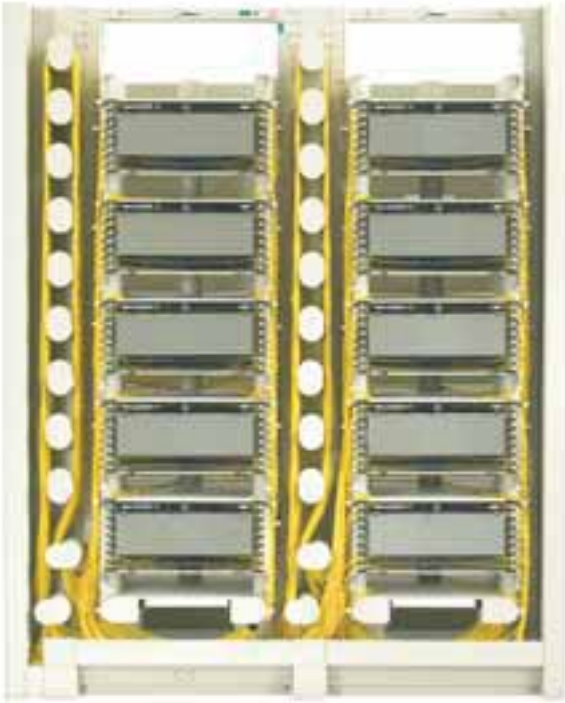
PPF2SV-S25-V
PPF2SV-S25-V69



PPF2S-S25-V
PPF2S-S25-V69

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Flat Pan-Post Standoff for TAK-TY™ Hook and Loop Cable Ties			
PPF2SV-S25-V	Nylon 6.6 Flat Pan-Post Standoff. Use with TAK-TY™ Hook and Loop Cable Ties	5	100
PPF2SV-S25-V69	Flame Retardant Nylon 6.6 Pan-Post Standoff. Use with TAK-TY™ Hook & Loop Cable Ties. Material meets UL94V-0 specifications	5	100
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.	5	100
PPF2S-S25-V69	Flame Retardant Nylon 6.6 Flat Use with miniature, intermediate and standard cross section cable ties. Material meets UL94V-0 specifications	5	100

OPTICOM™ HD Cross Connect System Roadmap

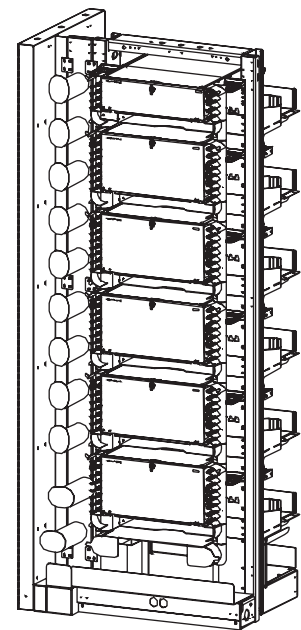
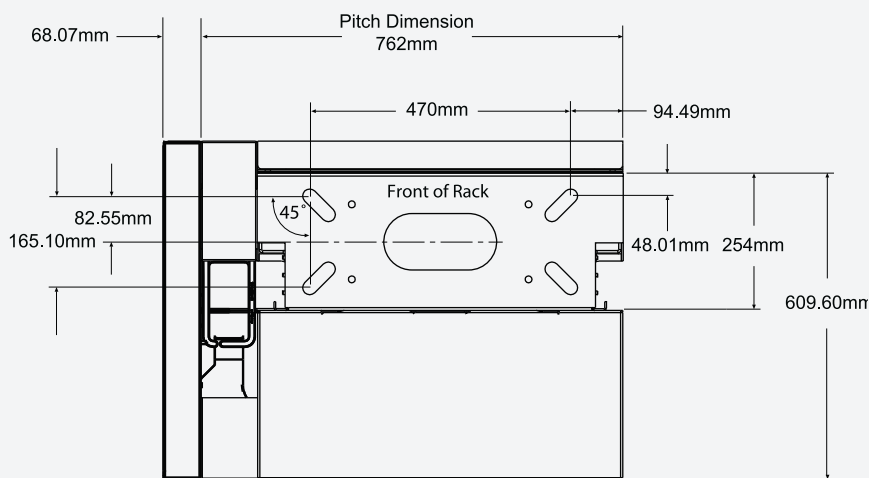


Front view



Rear view

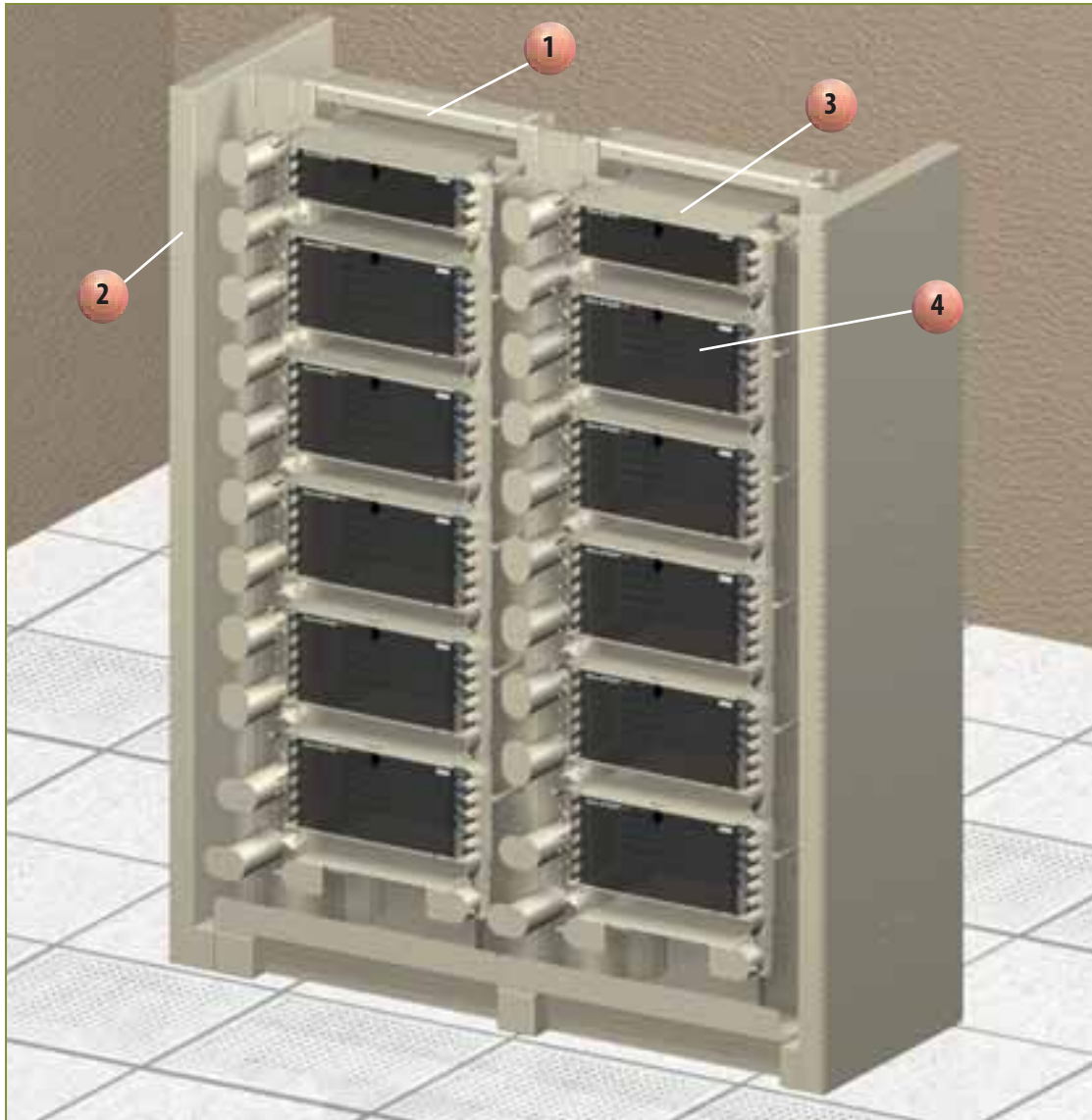
Footprint for *OPTICOM™ HD* Rack, Slack Manager and End Panel



Single Rack with End Cap

OPTICOM™ HD Cross Connect System Roadmap

- High density fibre distribution system for use in multi-rack line ups providing horizontal pathways from rack to rack. Ideal for multi-rack applications with up to 1584 fibre terminations per rack



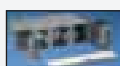
1 TRENBSW2384 — 23" Seismic Telecommunication Rack (page 157)



2 TREC24L, TREC24R — Telecommunications Rack End Cap (page 157)



3 HDFE144SC or HDFE144LC (pre-loaded with connectors)
HDFE9FAPBL or HDFE9FAP (Modular) — 3 RU Rack Mount Fibre Enclosure- For top rack location only (page 158)

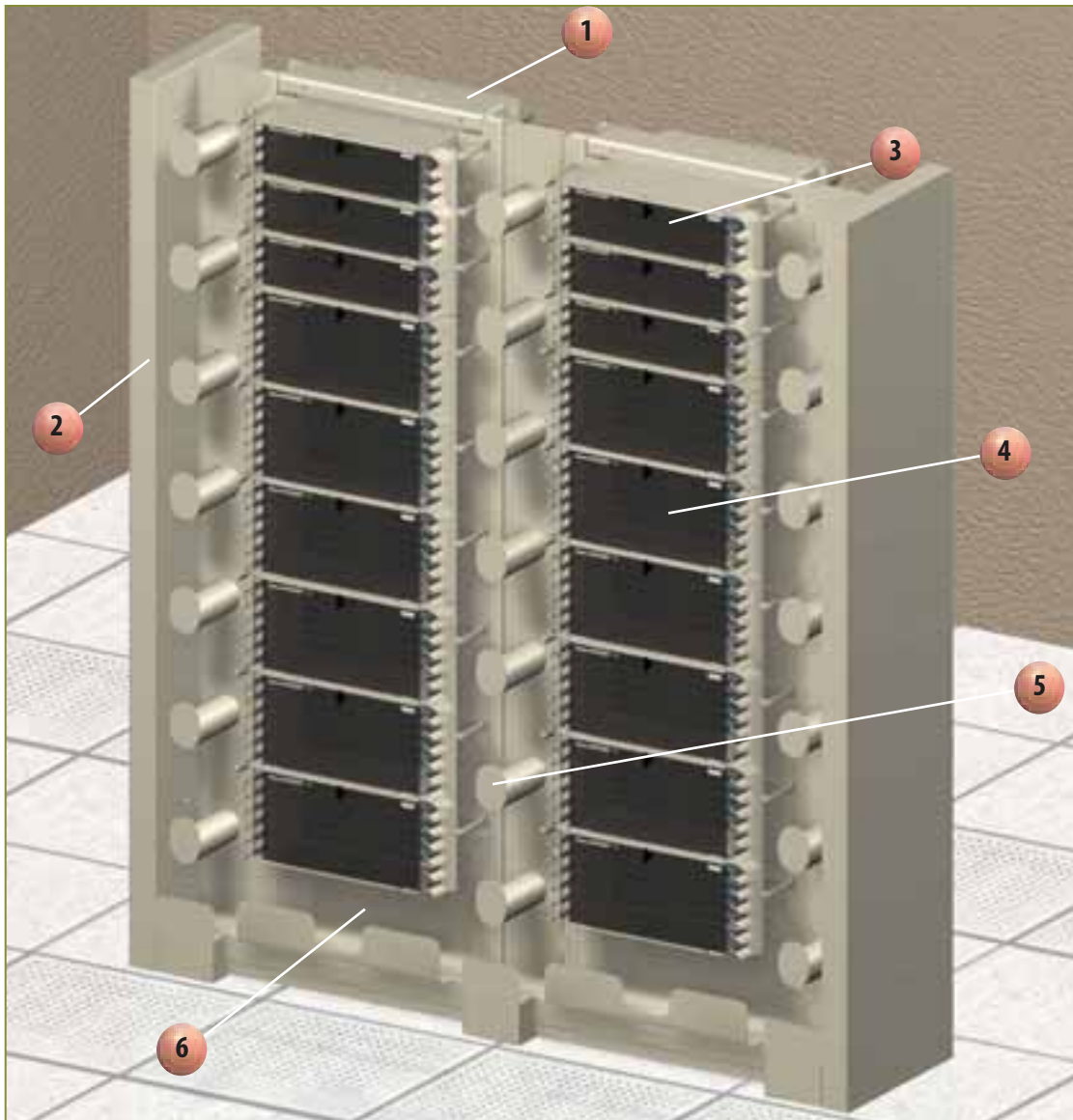


4 HDFE288SC or HDFE288LC (pre-loaded with connectors)
HDFE18FAP or HDFE18FAPBL (Modular) — 228.6mm Rack Mount Fibre Enclosure (page 158)



OPTICOM™ HD Inter-Connect System Roadmap

- High density fibre distribution system with optimized bend radius control, and provisions for vertical slack management



1 TRENBS2384 (Shown), TRENBS1984 – Telecommunications Rack (page 157)



2 TREC – Telecommunications Rack End Cap (page 157)



3 HDFE144SC or HDFE144LC (pre-loaded with connectors) HDFE9FAPBL or HDFE9FAP (Modular) – 3 RU Rack Mount Fibre Enclosure (page 158)



4 HDFE288SC or HDFE288LC (pre-loaded with connectors) HDFE18FAP or HDFE18FAPBL (Modular) – 228.6mm Rack Mount Fibre Enclosure (page 158)



5 TRVSM6 – 152.40mm Wide Vertical Slack Manager



6 TRT23LF, TRT19LF – Lower front only trough (page 157)



OPTICOM™ HD Fibre Distribution Equipment Racks and Accessories

- Rack and cable management system for high density fibre distribution
- System offerings include Zone 4 Seismic, NEBS and GR-449 Issue 2 compliance
- TRENBS racks meet EIA-310-D (except inside clearance)
- Cross-connect routing system accommodates up to 1,584 2mm dia fibre patch cords per rack
- Inter-connect routing system accommodates up to 1,584 2mm dia fibre patch cords per rack



TRENBS2384



TRT19LF



TREC



TRENBS1984

Part Number	Part Description	No. of Rack Spaces ^A	Std. Pkg. Qty.	Std. Ctn. Qty.
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OPTICOM™ HD Cross-Connect Fibre Distribution System

TRENBSW2384	23" WECO Enhanced Network Bay Seismic Telecommunication Rack. GR 449 Issue 2 and NEBS compliant. 247.65mmD x 660.4mmW x 2133.6mmH	44	1	—
TRENBW2384	23" WECO Enhanced Network Bay Telecommunication Rack, Zone 4 Seismic. 247.65mmD x 660.4mmW x 2133.6mmH	44	1	—
HDFDF2384W	6 level rear trough fibre routing system for multi-rack line-ups. Kit includes all components for one 23" WECO rack. GR 449 Issue 2 and NEBS compliant.	—	1	—
TREC24L	Telecommunication rack left end cap. Mounts to end of rack line-up. Enclosed area can be used for routing power, voice or data lines. GR 449 Issue 2 and NEBS compliant. 609.6mmD x 68.5mmW x 2133.6mmH	—	1	—
TREC24R	Telecommunication rack right end cap. Mounts to end of rack line-up. Enclosed area can be used for routing power, voice or data lines. GR 449 Issue 2 and NEBS compliant. 609.6mmD x 68.5mmW x 2133.6mmH	—	1	—

OPTICOM™ HD Inter-Connect Fibre Distribution System

TRENBS1984	19" EIA Enhanced Network Bay Zone 4 Seismic Telecommunication Rack. 247.65mmD x 660.4mmW x 2133.6mmH	44	1	—
TRENBS2384	23" EIA Enhanced Network Bay Zone 4 Seismic Telecommunication Rack. 247.65mmD x 660.4mmW x 2133.6mmH	44	1	—
TRVSM4	Telecommunication rack interbay vertical slack manager. Includes lower guard box and vertical D-Rings for rear cable management. 76.3mm spools on front provide 3801mm bend radius control when slacking fibre jumpers. 457.2mmD x 101.6mmW x 2133.6mmH	—	1	—
TRT19LF	Cable routing trough used for routing cables between 19" racks.	5	1	—
TRT23LF	Cable routing trough used for routing cables between 23" racks.	5	1	—
TREC	Telecommunication rack end cap. Mounts to end of rack line-up. Enclosed area can be used for routing power, voice or data lines. 457.2mmD x 101.6mmW x 2133.6mmH	—	1	—
TRRG236	Telecommunication rack 152.4mm deep rear guard box for 23" racks. Used to extend rear profile of 23" rack to match end panel and vertical slack manager.	—	1	—

OPTICOM™ HD Accessories

TRAKS	Seismic Telecommunication Equipment Rack Anchor Kit	—	1	10
TRTA19	Telecommunication rack top angle for 19" rack.	—	1	—
TRTA23	Telecommunication rack top angle for 23" rack.	—	1	—
TRFG19	Telecommunication rack front bottom guard rail for 19" rack. Used to extend the front surface of rack to match vertical slack manager and lower trough projection.	—	1	—
TRFG23	Telecommunication rack front bottom guard rail for 23" rack. Used to extend the front surface of rack to match vertical slack manager and lower trough projection.	—	1	—

^AOne rack space = 1.75in. (44.45mm) Capacities based on Telcordia GR-447-CORE 50% fill calculation.
 Fill capacity of Lower and Mezzanine Troughs = 616 (front) 522 rear (3mm Jacketed Fibres).
 Fill capacity of Front Only Lower and Mezzanine Troughs = 616 (3mm Jacketed Fibres).
 Fill capacity of Rear Trough = 252 (3mm Jacketed Fibres).

OPTICOM™ HD Fibre Distribution Enclosures, Splice Trays and Holders

- Complies with GR-449 Issue 2 and NEBS (including GR-1089 and GR-63-Seismic Zone 4)
- Includes fibre optic cable routing kits (grommets, cable ties, saddle clips, spools, strain relief and ID/caution labels for various cable management solutions)
- Patented fanning guides with retainer strips protect cables as they transition into the vertical channel while maintaining a 38.1mm bend radius
- Fully retractable top cover and removable front covers provide easy access to connectors
- Can be mounted to any standard EIA/WECO 19" or 23" rack or cabinet
- Removable connector mounting plate for increased cabling access



HDFE9FAPBL



HDFE18FAPBL



HDFE9FAP



HDFE288LC



FST24S



FSTHDH9



HDCRT

Part Number	Part Description	Colour	No. of Rack Spaces [^]	Std. Pkg. Qty
OPTICOM™ HD Rack Mount Fibre Optic Enclosures				
HDFE9FAPBL	Holds up to 9 FMP or FAP panels. 133.4mmH x 419.1mmW x 444.5mmD	Black	3	1
HDFE18FAPBL	Holds up to 18 FMP or FAP panels. 228.6mmH x 419.1mmW x 444.5mmD	Black	6	1
HDFE9FAP	Holds up to 9 FMP or FAP panels. 133.4mmH x 419.1mmW x 444.5mmD	Off White	3	1
HDFE18FAP	Holds up to 18 FMP or FAP panels. 228.6mmH x 419.1mmW x 444.5mmD	Off White	6	1
HDFE144LC	Loaded with 144 LC singlemode simplex adapters. PANDUIT™ part number FASJLCZBU. 133.4mmH x 419.1mmW x 444.5mmD	Off White	3	1
HDFE288LC	Loaded with 288 LC singlemode simplex adapters. PANDUIT™ part number FASJLCZBU. 228.6mmH x 419.1mmW x 444.5mmD	Off White	6	1
HDFE144SC	Loaded with 144 SC singlemode simplex adapters. Holds up to 9 FMP or FAP panels. 133.4mmH x 419.1mmW x 444.5mmD	Off White	3	1
HDFE288SC	Loaded with 288 SC singlemode simplex adapters. PANDUIT™ part number FASSCZBU. 228.6mmH x 419.1mmW x 444.5mmD	Off White	6	1
HDFE108ST	Loaded with 108 ST singlemode simplex adapters. PANDUIT™ part number CMSTZBU. 133.4mmH x 419.1mmW x 444.5mmD	Off White	3	1
HDFE216ST	Loaded with 216 ST singlemode simplex adapters. PANDUIT™ part number CMSTZBU. 228.6mmH x 419.1mmW x 444.5mmD	Off White	6	1
OPTICOM™ HD Splice Trays and Holders				
FSTHDH9BL	Holds and secures up to 9 FST24S splice trays. Installs in place of existing back door of HDFE18FAPBL.	Black	—	1
FSTHDH9	Holds and secures up to 9 FST24S splice trays. Installs in place of existing back door of HDFE18FAP.	Off White	—	1
FSTHED	Holds and secures up to 4 FST24S splice trays with built in fibre spooling. Mounting hardware included. Splice trays held in place with PANDUIT™ TAK-TY™ Cable Ties. For use with FMT1, FMT2, FMD1, FMD2, FRME3, FRME4 and all 3RU OPTICOM™ HD Enclosures. 44.5mmH x 330.2mmW x 177.8mmD	Off White	—	1
FST24S	Accommodates up to 24 mechanical or fusion splices. For use with FSTHDH9(BL) or FSTHED. 9.4mmH x 266.7mmW x 116.84mmD	Off White	—	1
OPTICOM™ HD Connector Removal Tool				
HDCRT	Tool provides additional means for inserting and removing connectors to minimize adjacent connector disturbance. Comes with swappable jaws for LC (simplex and duplex) and SC (simplex) connectivity, LED light for working in dark areas and a carrying case for storage and transportation.	—	—	1

[^]One rack space = 44.45mm

GROUNDING & BONDING

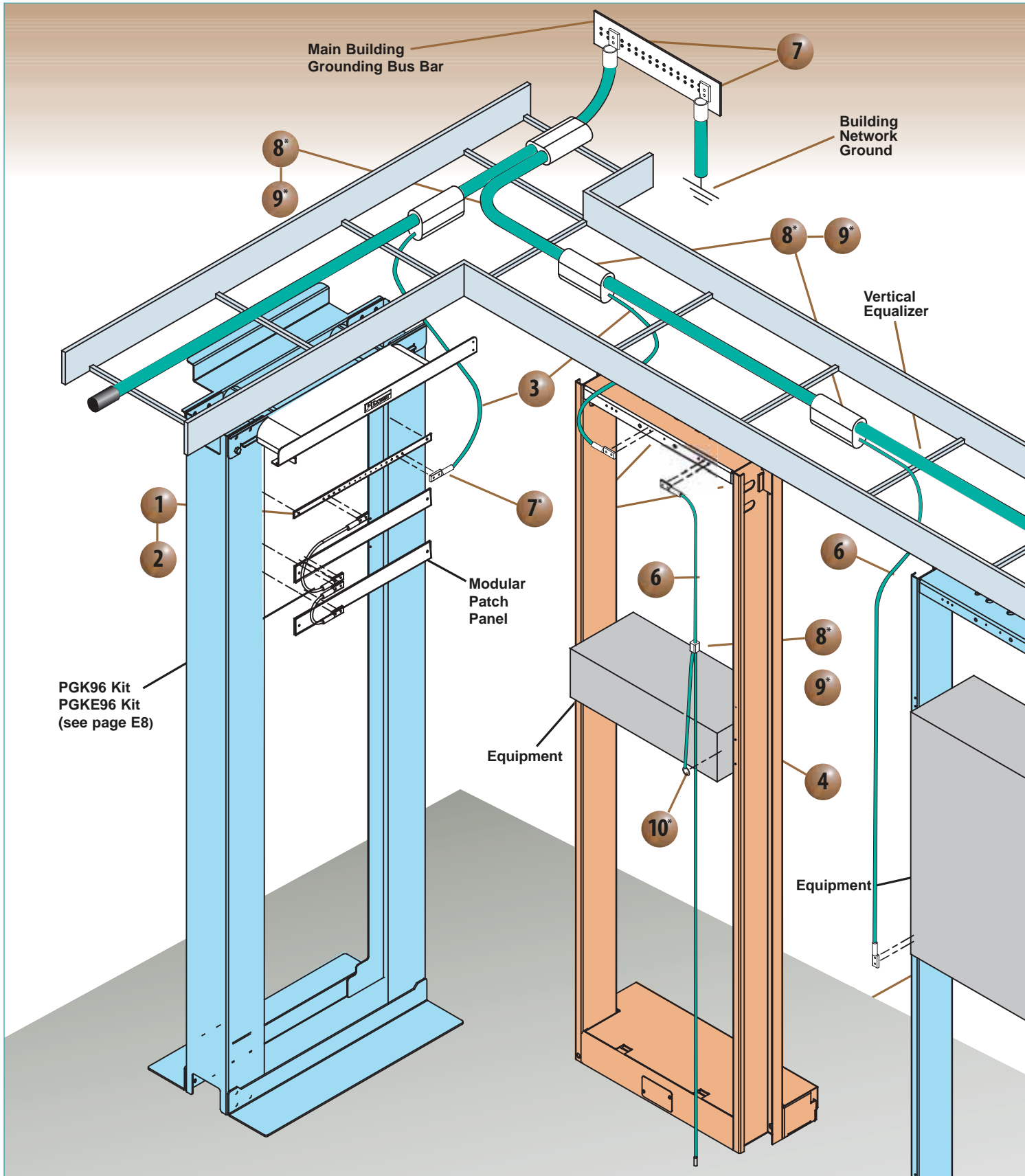
The industry's most reliable line of connectors. *PANDUIT*™ pioneered the testing of copper compression connectors by Telcordia to the Network Equipment Building Systems (NEBS) Level 3 requirements. Level 3 is the most stringent level of the NEBS performance criteria.





- Compression connectors tested by Telcordia and meet NEBS Level 3
- All *PANDUIT* connectors have been designed for easy installation and for maximum durability
- A broad variety of mechanical, pipe, rod and tap ground connectors are available to meet network grounding applications
- *PANDUIT* offers a variety of copper compression taps for grounding needs: extruded heavy wall "Type C" CTAPS, Stamped and Formed "Type F" CTAPS, and extruded "Type H" HTAPS, all in a wide range of run/tap conductor combinations
- *PAN-TERM*™ Ring Terminals are available in nylon, vinyl and non-insulated versions and can be used in a variety of power and grounding applications
- Crimping tools enable fast and proper product installation at a lower installed cost

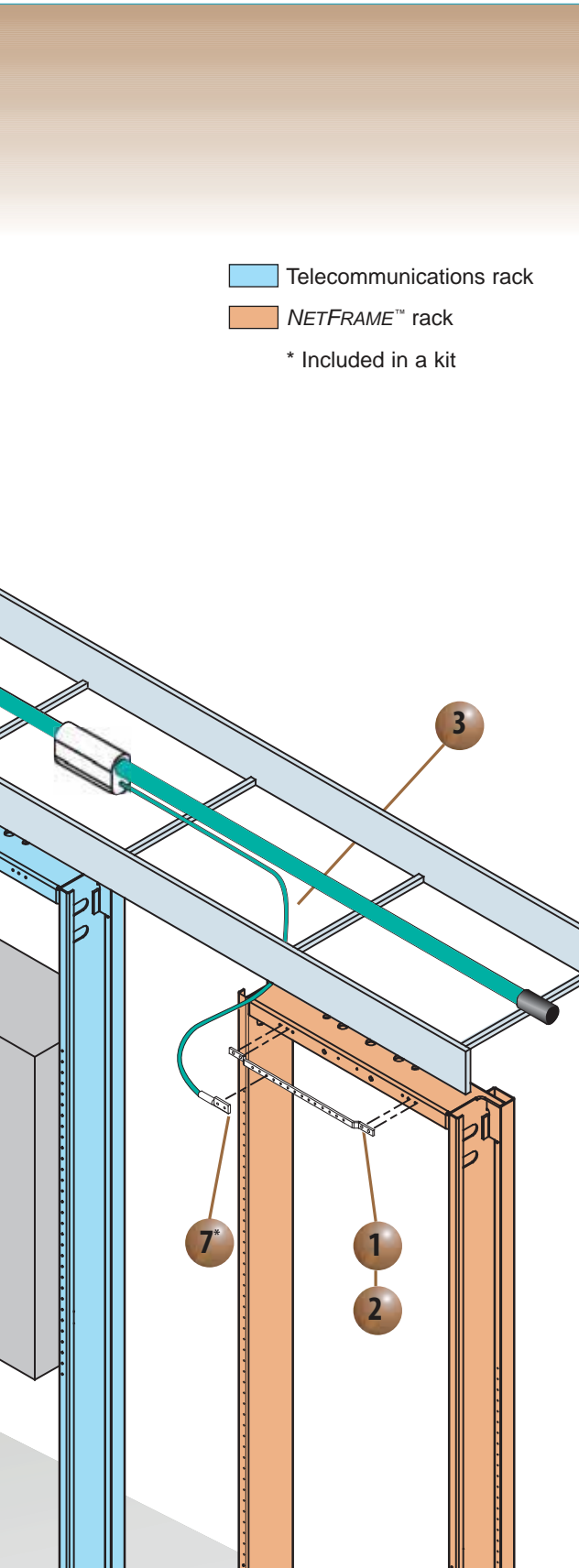
Telcordia testing of copper compression connectors to NEBS Level 3 Criteria provides assurance these products will meet or exceed installation requirements. Telcordia serves as the testing agency for the Telecommunication Industry. Telcordia's evaluation represents an objective third party analysis of copper compression connector, features function and performance. This confirms compliance of *PANDUIT* grounding products with globally recognised criteria.

Grounding & Bonding System Roadmap



For AWG to mm² conversion tables see page 192 - 194

 Telecommunications rack
 NETFRAME™ rack
 * Included in a kit



1 TRGB19 Rack round Bar – Channel Mount (page 162)



2 TRGB231 Rack Ground Bar – Rack Mount (page 162)



3 TRGK672 Rack Ground Kit (page 162)



4 TRGKJ1024 Rack Ground Kit (page 162)



5 TRGKJ4120 Rack Ground Kit (page 162)



6 TRGKE96 Rack Ground Kit (page 162)



7 Two Hole, Long Barrel Lugs with Inspection Window (pages 169-178)



8 Compression Connectors Taps (page 181)



9 Clear Covers (page 181)



10 Insulated & Non-Insulated Ring Terminals (pages 190-191)

Grounding Kit

- Grounds modules to another ground wire in shielded applications



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
CJSJK-X	Kit used to ground <i>Giga-TX</i> ™ Style Jack Modules to another ground wire in shielded applications.	10	100

Telecommunication Rack Grounding Products

- Provides protection for active equipment against stray electrical emissions



TRGB19



TRGB23



TRGB231



TRGK672



TRGKE696



TRGKJ1024



TRGKJ4120

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
TRGB19	Ground Bar, 279.4mm long, mounts to the top channel of the 19" Telecommunication Equipment Rack and is used as a grounding bus. Tinned copper, #6-32 and 1/4-20 threaded screw holes. Includes hardware.	1	10
TRGB23	Ground Bar, 381mm long, mounts to the top of the 23" Telecommunication Equipment Rack and is used as a grounding bus. Tinned copper, #6-32 and 1/4-20 threaded screw holes. Includes hardware.	1	10
TRGB191*	Ground Bar, 432.6mm long, 1 RU, mounts to vertical channels of the 19" Telecommunication Equipment Rack and is used as a grounding bus. Tinned copper, #6-32 and 1/4-20 threaded screw holes. Includes hardware.	1	10
TRGB231*	Ground Bar, 584.2mm long, 1 RU, mounts to vertical channels of the Telecommunication Equipment Rack and is used as a grounding bus. Tinned copper, #6-32 and 1/4-20 threaded screw holes. Includes hardware.	1	0
TRGK672*	Ground kit used to ground individual rack to building network ground. #6 AWG insulated stranded copper 1828.8mm long. Includes external lock washers, 1/4-20 screws, H-TAP, black cover and anti-oxidizing paste. Accommodates building network ground wire from #1/0-#6 AWG.	1	10
TRGKE696	Ground kit mounts to vertical channel of the rack and is used as a connection between equipment jumpers and rack ground bar. #6 tinned solid copper wire 2438.4mm long. Includes #12-24 screws, cable clamps, 1/4-20 screws, external lock washers and anti-oxidizing paste.	1	10
TRGKJ1024	Equipment ground jumper kit used to ground equipment to TRGKE696. #10 AWG insulated stranded copper 609.6mm long. Includes H-TAP, black cover and anti-oxidizing paste.	1	10
TRGKJ4120	Equipment ground jumper kit used to ground equipment to the building network ground, TRGKE696, or directly to the rack. Cable is #4 AWG insulated stranded copper 3048mm long. Includes #12-24 screws, cable clamps, HTAP, black cover and anti-oxidizing paste. Accommodates building network ground wire from #1/0-#6 AWG.	1	10

*Also mounts to standard EIA racks and *NETFRAME*™ racks.

Part Number System For Compression Connectors

LCD	2/0	38	D		X
Part Designation	Conductor Size	Bolt Hole Size Designation	2 Bolt Hole Spacing*	Tongue Angle	Std. Pkg. Size
		10 = #10 14 = 6.35mm 56 = 7.95mm 38 = 9.54mm 12 = 12.7mm 58 = 15.9mm 34 = 19.05mm 00 = Blank Tongue	A = 15.88mm B = 19.05mm C = 22.2mm D = 25.4mm E = 31.75mm No Letter = 31.75mm AD = 15.9mm to 25.4mm (Slotted)	H = 45° Angle F = 90° Angle No Letter = Straight	1 = 1 2 = 2 3 = 3 5 = 5 6 = 6 X = 10 E = 20 Q = 25 L = 50

Ex: LCD Lug, Copper Two Hole Standard Barrel

*LCA, LCC and LCD Styles Only

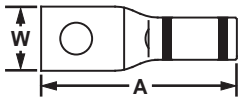


Copper Lugs – One-Hole Lug Standard Barrel

For Use With Copper Cables Only

Type LCA

- Colour coded to show proper die number and colour
- Tested by Telcordia and meets NEBS level 3
- UL Listed per 486A up to 35KV**
- Inspection window to visually assure full cable insertion



Part Number	Copper Conductor Size*	Die Colour & No. ‡	Bolt Hole Size mm	Length (A) mm	Width (W) mm	Std. Pkg. Qty.
LCA10-10-L	#14 – #10 AWG STR, #12 – #10 AWG SOL	—	4.83	27.2	9.7	50
LCA10-14-L			6.35	29.4	10.7	50
LCA10-56-L			7.92	32.5	13.7	50
LCA10-38-L			9.53	35.1	14.2	50
LCA8-10-L	#8 AWG	Red P21	4.83	31.75	10.4	50
LCA8-14-L			6.35	34.04	12.2	50
LCA8-56-L			7.92	37.08	14.2	50
LCA8-38-L			9.53	39.62	15.2	50
LCA6-10-L	#6 AWG	Blue P24	4.83	38.61	11.4	50
LCA6-14-L			6.35	40.89	12.2	50
LCA6-56-L			7.92	43.94	14.2	50
LCA6-38-L			9.53	46.48	15.7	50
LCA4-10-L	#4 – #3 AWG STR, #2 AWG SOL	Grey P29	4.83	39.1	14	50
LCA4-14-L			6.35	41.4	14	50
LCA4-56-L			7.92	44.4	14	50
LCA4-38-L			9.53	47.0	15.7	50
LCA2-14-Q	#2 AWG	Brown P33	6.35	45.0	15.2	25
LCA2-56-Q			7.92	48.3	16.8	25
LCA2-38-Q			9.53	50.0	16.8	25
LCA2-12-Q			12.7	56.1	19	25
LCA1-14-E	#1 AWG	Green P37	6.35	45.5	17.8	20
LCA1-56-E			7.92	48.8	17.8	20
LCA1-38-E			9.53	50.5	17.8	20
LCA1-12-E			12.7	56.4	20	20
LCA1/0-14-X	1/0 AWG	Pink P42	6.35	49.5	19.3	10
LCA1/0-56-X			7.92	50.8	19.3	10
LCA1/0-38-X			9.53	52.8	19.3	10
LCA1/0-12-X			12.7	58.7	20.3	10

LCA products continued on next page

*UL Listed and CSA Certified with code, locomotive and class K & M weld cables.

‡Contact PANDUIT™ for flex cable die selection.

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.



Copper Lugs – One-Hole Lug Standard Barrel (continued)

For Use With Copper Cables Only

Type LCA



Part Number	Copper Conductor Size*	Die Colour & No. ‡	Bolt Hole Size	Length (A)	Width (W)	Std. Pkq. Qty.
			mm	mm	mm	
LCA2/0-14-X	2/0 AWG	Black P45	6.35	53.1	21.6	10
LCA2/0-56-X			7.92	53.1	21.6	10
LCA2/0-38-X			9.53	54.6	21.6	10
LCA2/0-12-X			12.7	61.0	21.6	10
LCA3/0-14-X	3/0 AWG	Orange P50	6.35	57.9	24.4	10
LCA3/0-56-X			7.92	57.9	24.4	10
LCA3/0-38-X			9.53	59.4	24.4	10
LCA3/0-12-X			12.7	65.8	24.4	10
LCA4/0-14-X	4/0 AWG	Purple P54	6.35	59.9	26.9	10
LCA4/0-56-X			7.92	60.5	26.9	10
LCA4/0-38-X			9.53	62.2	26.9	10
LCA4/0-12-X			12.7	68.1	26.9	10
LCA250-14-X	250 kcmil	Yellow P62	6.35	62.7	29.7	10
LCA250-56-X			7.92	63.0	29.7	10
LCA250-38-X			9.53	64.8	29.7	10
LCA250-12-X			12.7	70.6	29.7	10
LCA300-56-X	300 kcmil	White P66	7.92	74.7	30.2	10
LCA300-38-X			9.53	74.7	30.2	10
LCA300-12-X			12.7	77.5	30.2	10
LCA300-58-X			15.88	82.8	30.2	10
LCA300-78-X			22.22	94.0	30.2	10
LCA350-38-X	350 kcmil	Red P71	9.53	75.7	32.5	10
LCA350-12-X			12.7	78.5	32.5	10
LCA350-58-X			15.9	83.8	32.5	10
LCA350-78-X			22.22	95.0	32.5	10
LCA400-38-6	400 kcmil	Blue P76	9.53	81.8	35.3	6
LCA400-12-6			12.7	81.8	35.3	6
LCA400-58-6			15.88	87.1	35.3	6
LCA400-78-6			22.22	92.0	35.3	6
LCA500-38-6	500 kcmil	Brown P87	9.53	86.1	39.1	6
LCA500-12-6			12.7	90.2	39.1	6
LCA500-58-6			15.88	95.5	39.1	6
LCA500-34-6			19.05	99.1	39.1	6
LCA500-78-6			22.2	105.4	39.1	6
LCA500-1-6			25.4	108.5	39.1	6
LCA600-12-6	600 kcmil	Green P94	12.7	106.7	43.2	6
LCA600-58-6			15.88	106.7	43.2	6
LCA600-78-6			22.22	106.7	43.2	6

*UL Listed and CSA Certified with code, locomotive and class K & M weld cables.

‡Contact PANDUIT™ for flex cable die selection.

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.

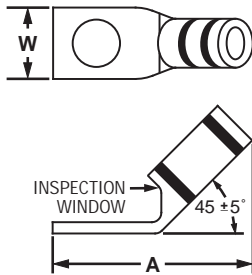


Copper Lugs – One-Hole Lug Standard Barrel, 45° Angle Tongue

For Use With Copper Cables Only

Type LCA-H

- Colour coded to show proper die number and colour
- Tested by Telcordia and meets NEBS level 3
- UL Listed per 486A up to 35KV**
- Inspection window to visually assure full cable insertion



Part Number	Copper Conductor Size*	Die Colour & No.‡	Bolt Hole Size	Length (A)	Width (W)	Std. Pkg. Qty.
			mm	mm	mm	
LCA10-14H-L	#14—#10 AWG STR, #12—#10 AWG SOL	—	6.35	26.7	10.7	50
LCA8-10H-L	#8 AWG	Red P21	4.83	27.9	10.4	50
LCA8-14H-L			6.35	30.2	12.2	50
LCA8-56H-L			7.92	33.0	14.2	50
LCA8-38H-L			9.53	35.6	15.2	50
LCA6-10H-L	#6 AWG	Blue P24	4.83	32.8	11.4	50
LCA6-14H-L			6.35	35.1	11.4	50
LCA6-56H-L			7.92	37.8	14.2	50
LCA6-38H-L			9.53	40.4	15.7	50
LCA4-10H-L	#4 – #3 AWG STR, #2 AWG SOL	Grey P29	4.83	33.3	14.0	50
LCA4-14H-L			6.35	35.6	14.0	50
LCA4-56H-L			7.92	38.6	14.0	50
LCA4-38H-L			9.53	40.9	15.7	50
LCA2-14H-Q	#2 AWG	Brown P33	6.35	37.8	15.2	25
LCA2-56H-Q			7.92	40.9	16.8	25
LCA2-38H-Q			9.53	42.7	16.8	25
LCA2-12H-Q			12.7	48.3	19.0	25
LCA1-14H-E	#1 AWG	Green P37	6.35	38.1	17.8	20
LCA1-56H-E			7.92	41.1	17.8	20
LCA1-38H-E			9.53	43.2	17.8	20
LCA1-12H-E			12.7	49	19.0	20
LCA1/0-14H-X	1/0 AWG	Pink P42	6.35	41.4	19.3	10
LCA1/0-56H-X			7.92	42.9	19.3	10
LCA1/0-38H-X			9.53	44.7	19.3	10
LCA1/0-12H-X			12.7	50.8	20.3	10
LCA2/0-14H-X	2/0 AWG	Black P45	6.35	45	21.6	10
LCA2/0-56H-X			7.92	45	21.6	10
LCA2/0-38H-X			9.53	46.5	21.6	10
LCA2/0-12H-X			12.7	52.8	21.6	10
LCA3/0-14H-X	3/0 AWG	Orange P50	6.35	48.3	24.4	10
LCA3/0-56H-X			7.92	48.3	24.4	10
LCA3/0-38H-X			9.53	49.8	24.4	10
LCA3/0-12H-X			12.7	56.1	24.4	10

LCA-H product listing continued on the following page

*UL Listed with code, locomotive and class K & M weld cables.

‡Contact PANDUIT™ for flex cable die selection.

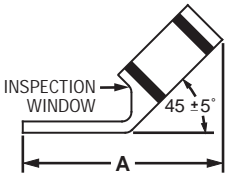
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.



Copper Lugs – One-Hole Lug Standard Barrel, 45° Angle Tongue (continued)

For Use With Copper Cables Only

Type LCA-H



Part Number	Copper Conductor Size*	Die Colour & No.‡	Bolt Hole Size	Length (A)	Width (W)	Std. Pkg. Qty.
			mm	mm	mm	
LCA4/0-14H-X	4/0 AWG	Purple P54	6.35	50	26.9	10
LCA4/0-56H-X			7.92	50.3	26.9	10
LCA4/0-38H-X			9.53	52.1	26.9	10
LCA4/0-12H-X			12.7	57.9	26.9	10
LCA250-14H-X	250 kcmil	Yellow P62	6.35	52.1	29.7	10
LCA250-56H-X			7.92	52.3	29.7	10
LCA250-38H-X			9.53	54.1	29.7	10
LCA250-12H-X			12.7	59.9	29.7	10
LCA300-56H-X	300 kcmil	White P66	7.92	64.7	30.2	10
LCA300-38H-X			9.53	64.7	30.2	10
LCA300-12H-X			12.7	68.6	30.2	10
LCA300-58H-X			15.9	72.9	30.2	10
LCA300-78H-X	350 kcmil	Red P71	22.2	84.1	30.2	10
LCA350-38H-X			9.53	65.8	32.5	10
LCA350-12H-X			12.7	68.6	32.5	10
LCA350-58H-X			15.9	73.9	32.5	10
LCA350-78H-X	400 kcmil	Blue P76	22.2	85.1	32.5	10
LCA400-38H-6			9.53	72.4	35.3	6
LCA400-12H-6			12.7	72.4	35.3	6
LCA400-58H-6			15.9	77.7	35.3	6
LCA400-78H-6	500 kcmil	Brown P87	22.2	87.6	35.3	6
LCA500-38H-6			9.53	74.7	39.1	6
LCA500-12H-6			12.7	78.7	39.1	6
LCA500-58H-6			15.9	84.1	39.1	6
LCA500-34H-6	600 kcmil	Green P94	19.1	87.6	39.1	6
LCA500-78H-6			22.2	94	39.1	6
LCA500-1H-6			25.4	97	39.1	6
LCA600-12H-6	600 kcmil	Green P94	12.7	95.5	43.2	6
LCA600-58H-6			15.9	95.5	43.2	6
LCA600-78H-6			22.2	95.5	43.2	6

*UL Listed with code, locomotive and class K & M weld cables.

‡Contact PANDUIT™ for flex cable die selection.

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.

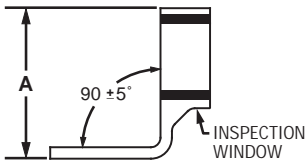


Copper Lugs – One-Hole Lug Standard Barrel, 90° Angle Tongue

For Use With Copper Cables Only

Type LCA-F

- Colour coded to show proper die number and colour
- Tested by Telcordia and meets NEBS level 3
- UL Listed per 486A up to 35KV**
- Inspection window to visually assure full cable insertion



Part Number	Copper Conductor Size*	Die Colour & No.‡	Bolt Hole Size mm	Length (A) mm	Width (W) mm	Std. Pkg. Qty.
LCA10-14F-L	#14-#10 AWG STR, #12-#10 AWG SOL	—	6.35	23.9	10.7	50
LCA8-10F-L	#8 AWG	Red P21	4.83	22.9	10.4	50
LCA8-14F-L			6.35	25.1	12.2	50
LCA8-56F-L			7.92	28.2	14.2	50
LCA8-38F-L			9.53	30.7	15.2	50
LCA6-10F-L	#6 AWG	Blue P24	4.83	23.9	11.4	50
LCA6-14F-L			6.35	26.2	11.4	50
LCA6-56F-L			7.92	29.2	14.2	50
LCA6-38F-L			9.53	31.8	15.7	50
LCA4-10F-L	#4 – #3 AWG STR, #2 AWG SOL	Grey P29	4.83	26.2	14.0	50
LCA4-14F-L			6.35	28.4	14.0	50
LCA4-56F-L			7.92	31.5	14.0	50
LCA4-38F-L			9.53	34	15.7	50
LCA2-14F-Q	#2 AWG	Brown P33	6.35	31.5	15.2	25
LCA2-56F-Q			7.92	34.5	16.8	25
LCA2-38F-Q			9.53	36.6	16.8	25
LCA2-12F-Q			12.7	42.4	19.0	25
LCA1-14F-E	#1 AWG	Green P37	6.35	33.3	17.8	20
LCA1-56F-E			7.92	36.6	17.8	20
LCA1-38F-E			9.53	38.4	17.8	20
LCA1-12F-E			12.7	44.4	19.0	20
LCA1/0-14F-X	1/0 AWG	Pink P42	6.35	36.8	19.3	10
LCA1/0-56F-X			7.92	38.4	19.3	10
LCA1/0-38F-X			9.53	40.1	19.3	10
LCA1/0-12F-X			12.7	46.2	20.3	10
LCA2/0-14F-X	2/0 AWG	Black P45	6.35	40.9	21.6	10
LCA2/0-56F-X			7.92	40.4	21.6	10
LCA2/0-38F-X			9.53	42.2	21.6	10
LCA2/0-12F-X			12.7	48.5	21.6	10
LCA3/0-14F-X	3/0 AWG	Orange P50	6.35	42.4	24.4	10
LCA3/0-56F-X			7.92	42.4	24.4	10
LCA3/0-38F-X			9.53	43.9	24.4	10
LCA3/0-12F-X			12.7	50.3	24.4	10

LCA-F product listing continued on the following page

*UL Listed with code, locomotive and class K & M weld cables.

‡Contact PANDUIT™ for flex cable die selection.

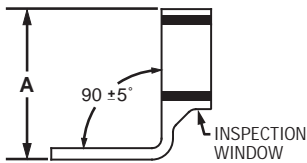
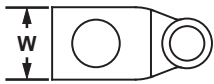
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.



Copper Lugs – One-Hole Lug Standard Barrel, 90° Angle Tongue (continued)

For Use With Copper Cables Only

Type LCA-F



Part Number	Copper Conductor Size*	Die Colour & No.‡	Bolt Hole Size mm	Length (A) mm	Width (W) mm	Std. Pkg. Qty.
LCA4/0-14F-X	4/0 AWG	Purple P54	6.35	44.4	26.9	10
LCA4/0-56F-X			7.92	45	26.9	10
LCA4/0-38F-X			9.53	46.7	26.9	10
LCA4/0-12F-X			12.7	52.6	26.9	10
LCA250-14F-X	250 kcmil	Yellow P62	6.35	46.2	29.7	10
LCA250-56F-X			7.92	46.5	29.7	10
LCA250-38F-X			9.53	48.3	29.7	10
LCA250-12F-X			12.7	54.1	29.7	10
LCA300-56F-X	300 kcmil	White P66	7.92	52.6	30.2	10
LCA300-38F-X			9.53	52.6	30.2	10
LCA300-12F-X			12.7	55.4	30.2	10
LCA300-58F-X			15.9	61	30.2	10
LCA300-78F-X	350 kcmil	Red P71	22.2	71.9	30.2	10
LCA350-38F-X			9.53	54.1	32.5	10
LCA350-12F-X			12.7	56.9	32.5	10
LCA350-58F-X			15.9	62.2	32.5	10
LCA350-78F-X	400 kcmil	Blue P76	22.2	73.4	32.5	10
LCA400-38F-6			9.53	60.2	35.3	6
LCA400-12F-6			12.7	60.2	35.3	6
LCA400-78F-6			22.2	75.4	35.3	6
LCA500-38F-6	500 kcmil	Brown P87	9.53	58.9	39.1	6
LCA500-12F-6			12.7	63	39.1	6
LCA500-34F-6			19.1	71.9	39.1	6
LCA500-78F-6			22.2	76.5	39.1	6
LCA500-1F-6	600 kcmil	Green P94	25.4	81.3	39.1	6
LCA600-12F-6			12.7	81.5	43.2	6
LCA600-78F-6			22.2	81.5	43.2	6

*UL Listed with code, locomotive and class K & M weld cables.

‡Contact PANDUIT™ for flex cable die selection.

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.

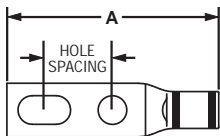
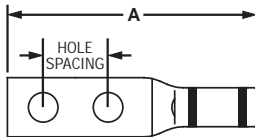


Copper Lugs – Two-Hole Lug Standard Barrel

For Use With Copper Cables Only

Type LCD

- Colour coded to show proper die number and colour
- Tested by Telcordia and meets NEBS level 3
- UL Listed per 486A up to 35KV**
- Inspection window to visually assure full cable insertion



Part Number	Copper Conductor Size	Die Colour & No. ‡	Bolt Hole Size mm	Length (A) mm	Width (W) mm	Mounting Hole Spacing mm	Std. Pkg. Qty.
LCD10-10A-L	#14 – #10 AWG STR #12 – #10 AWG SOL	—	4.83	42.9	9.7	16	50
LCD10-14A-L			6.35	45.2	10.7	16	50
LCD10-14B-L			6.35	48.5	10.7	19	50
LCD10-14D-L			6.35	54.9	10.7	25.4	50
LCD10-38D-L			9.53	60.5	14.2	25.4	50
LCD8-10A-L	#8 AWG	Red P21	4.83	47.8	10.4	16	50
LCD8-14A-L			6.35	50.0	12.2	16	50
LCD8-14B-L			6.35	53.1	12.2	19	50
LCD8-14D-L			6.35	59.4	12.2	25.4	50
LCD8-38D-L			9.53	65.0	15.2	25.4	50
LCD8-38AD-L	10.3	65.0	15.7	16	50		
LCD6-10A-L	#6 AWG	Blue P24	4.83	54.6	11.7	16	50
LCD6-14A-L			6.35	56.9	12.2	16	50
LCD6-14B-L			6.35	59.9	12.2	19	50
LCD6-14D-L			6.35	66.3	12.2	25.4	50
LCD6-56D-L			7.92	69.3	14.2	25.4	50
LCD6-38D-L	9.53	71.9	15.7	25.4	50		
LCD6-38AD-L	10.3	71.9	15.7	16	50		
LCD4-10A-L	#4 – #3 AWG STR, #2 AWG SOL	Grey P29	4.83	55.1	14.0	16	50
LCD4-10B-L			4.83	58.2	14.0	19	50
LCD4-14A-L			6.35	57.4	14.0	16	50
LCD4-14B-L			6.35	60.5	14.0	19	50
LCD4-14D-L			6.35	66.8	14.0	25.4	50
LCD4-38D-L	9.53	72.4	15.7	25.4	50		
LCD4-38AD-L	10.3	72.3	15.7	16	50		
LCD2-14A-Q	#2 AWG	Brown P33	6.35	61.0	15.2	16	25
LCD2-14B-Q			6.35	64.0	15.2	19	25
LCD2-14D-Q			6.35	70.4	15.2	25.4	25
LCD2-56B-Q			7.92	67.3	16.8	19	25
LCD2-38D-Q			9.53	76.2	16.8	25.4	25
LCD2-38AD-Q	10.3	76.2	16.8	16	25		
◆ LCD2-12-Q			12.7	105.2	19.0	44.4	25
LCD1-14A-E	#1 AWG	Green P37	6.35	61.5	17.8	16	20
LCD1-14B-E			6.35	64.5	17.8	19	20
LCD1-56C-E			7.92	70.9	17.8	22.4	20
LCD1-38D-E			9.53	75.9	17.8	25.4	20
LCD1-38AD-E			16	75.9	17.8	16	20
◆ LCD1-12-E			12.7	105.7	19.0	44.4	20

LCD product listing continued on the following page

*UL Listed and CSA Certified with code, locomotive and class K & M weld cables.

‡Contact PANDUIT™ for flex cable die selection.

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.

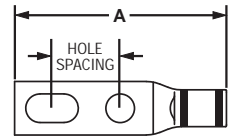
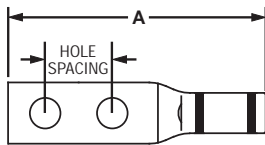
◆ NEMA hole sizes and spacing



Copper Lugs – Two-Hole Lug Standard Barrel (continued)

For Use With Copper Cables Only

Type LCD



Part Number	Copper Conductor Size	Die Colour & No. ‡	Bolt Hole Size mm	Length (A) mm	Width (W) mm	Mounting Hole Spacing mm	Std. Pkg. Qty.
LCD1/0-14A-X	1/0 AWG	Pink P42	6.35	65.3	19.3	16	10
LCD1/0-14B-X			6.35	68.6	19.3	19	10
LCD1/0-56C-X			7.92	73.2	19.3	22.4	10
LCD1/0-38D-X			9.53	78.2	19.3	25.4	10
LCD1/0-38AD-X			10.3	78.2	19.3	16	10
◆ LCD1/0-12-X			12.7	107.9	20.3	44.4	10
LCD2/0-14A-X	2/0 AWG	Black P45	6.35	68.6	21.6	16	10
LCD2/0-14B-X			6.35	71.9	21.6	19	10
LCD2/0-56C-X			7.92	74.9	21.6	22.4	10
LCD2/0-38D-X			9.53	79.8	21.6	25.4	10
LCD2/0-12-X			12.7	109.2	21.6	44.4	10
LCD3/0-14B-X	3/0 AWG	Orange P50	6.35	76.7	24.4	19	10
LCD3/0-56D-X			7.92	83.1	24.4	25.4	10
LCD3/0-38D-X			9.53	84.6	24.4	25.4	10
LCD3/0-12-X			12.7	114.0	24.4	44.4	10
LCD4/0-14B-X	4/0 AWG	Purple P54	6.35	78.7	26.9	19	10
LCD4/0-38D-X			9.53	87.4	26.9	25.4	10
◆ LCD4/0-12-X			12.7	116.3	26.9	44.4	10
LCD250-38D-X	250 kcmil	Yellow P62	9.53	89.9	29.7	25.4	10
◆ LCD250-12-X			12.7	118.9	29.7	44.4	10
LCD300-38D-X	300 kcmil	White P66	9.53	95.0	30.2	25.4	10
◆ LCD300-12-X			12.7	125.0	30.2	44.4	10
LCD350-14B-X	350 kcmil	Red P71	6.35	83.8	32.5	19	10
LCD350-38D-X			9.53	96.0	32.5	25.4	10
LCD350-12E-X			12.7	110.0	32.5	31.8	10
◆ LCD350-12-X			12.7	126.0	32.5	44.4	10
LCD400-38D-6	400 kcmil	Blue P76	9.53	98.0	35.3	25.4	6
◆ LCD400-12-6			12.7	128.0	35.3	44.4	6
LCD500-14B-6	500 kcmil	Brown P87	6.35	94.2	39.1	19	6
LCD500-38D-6			9.53	106.4	39.1	25.4	6
LCD500-12E-6			12.7	120.4	39.1	31.8	6
◆ LCD500-12-6			12.7	136.4	39.1	44.4	6
LCD600-38D-6	600 kcmil	Green P94	9.53	107.7	43.2	25.4	6
◆ LCD600-12-6			12.7	137.7	43.2	44.4	6
◆ LCD750-12-6	750 kcmil	Black P106	12.7	143.5	48.0	44.4	6
◆ LCD1000-12-3	1000 kcmil	White P125	12.7	146.6	55.1	44.4	3

*UL Listed and CSA Certified with code, locomotive and class K & M weld cables.

‡Contact PANDUIT™ for flex cable die selection.

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.

◆ NEMA hole sizes and spacing

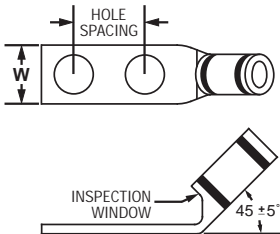


Copper Lugs – Two-Hole Lug Standard Barrel – 45° Angle Tongue

For Use With Copper Cables Only

Type LCD-H

- Colour coded to show proper die number and colour
- Tested by Telcordia and meets NEBS level 3
- UL Listed per 486A up to 35KV**
- Inspection window to visually assure full cable insertion



Part Number	Copper Conductor Size*	Die Colour & No.‡	Bolt Hole Size mm	Length (A) mm	Width (W) mm	Mounting Hole Spacing mm	Std. Pkg. Qty.
LCD10-10AH-L	#14 – #10 AWG STR #12 – #10 AWG SOL	—	4.83	40.4	9.7	16	50
LCD10-14AH-L			6.35	42.4	10.7	16	50
LCD10-38DH-L			9.53	57.9	14.2	25.4	50
LCD8-10AH-L	#8 AWG	Red P21b	4.83	43.9	10.4	16	50
LCD8-14AH-L			6.35	46.0	12.2	16	50
LCD8-14BH-L			6.35	49.3	12.2	19	50
LCD8-14DH-L			6.35	55.6	12.2	25.4	50
LCD8-38DH-L			9.53	61.0	15.7	25.4	50
LCD6-10AH-L	#6 AWG	Blue P24	4.83	48.8	11.7	16	50
LCD6-14AH-L			6.35	50.8	12.2	16	50
LCD6-14BH-L			6.35	54.1	12.2	19	50
LCD6-14DH-L			6.35	60.5	12.2	25.4	50
LCD6-56DH-L			7.92	63.2	14.2	25.4	50
LCD6-38DH-L	9.53	65.8	15.7	25.4	50		
LCD4-14AH-L	#4 – #3 AWG STR, #2 AWG SOL	Grey P29	6.35	51.6	14.0	16	50
LCD4-14BH-L			6.35	54.6	14.0	19	50
LCD4-14DH-L			6.35	61.0	14.0	25.4	50
LCD4-38DH-L			9.53	66.5	15.7	25.4	50
LCD2-14AH-Q	#2 AWG	Brown P33	6.35	53.6	15.2	16	25
LCD2-14BH-Q			6.35	56.9	15.2	19	25
LCD2-14DH-Q			6.35	63.2	15.2	25.4	25
LCD2-56BH-Q			7.92	59.9	16.8	19	25
LCD2-38DH-Q			9.53	68.8	16.8	25.4	25
LCD2-12H-Q	12.7	97.5	19.0	44.4	25		
LCD1-14AH-E	#1 AWG	Green P37	6.35	53.8	17.8	16	20
LCD1-14BH-E			6.35	57.2	17.8	19	20
LCD1-56CH-E			7.92	63.5	17.8	22.4	20
LCD1-38DH-E			9.53	68.6	17.8	25.4	20
LCD1-12H-E	12.7	98.3	19.0	44.4	20		
LCD1/0-14AH-X	1/0 AWG	Pink P42	6.35	57.4	19.3	16	10
LCD1/0-14BH-X			6.35	60.5	19.3	19	10
LCD1/0-56CH-X			7.92	65.0	19.3	22.4	10
LCD1/0-38DH-X			9.53	99.8	19.3	25.4	10
LCD1/0-12H-X			12.7	99.8	20.3	44.4	10
LCD2/0-14AH-X	2/0 AWG	Black P45	6.35	60.7	21.6	16	10
LCD2/0-14BH-X			6.35	64.0	21.6	19	10
LCD2/0-56CH-X			7.92	67.1	21.6	22.4	10
LCD2/0-38DH-X			9.53	71.9	21.6	25.4	10
LCD2/0-12H-X			12.7	101.3	21.6	44.4	10
LCD3/0-14BH-X	3/0 AWG	Orange P50	6.35	67.3	24.4	19	10
LCD3/0-56DH-X			7.92	73.7	24.4	25.4	10
LCD3/0-38DH-X			9.53	75.2	24.4	25.4	10
LCD3/0-12H-X			12.7	104.6	24.4	44.4	10
LCD4/0-14BH-X	4/0 AWG	Purple P54	6.35	69.1	26.9	19	10
LCD4/0-38DH-X			9.53	77.5	26.9	25.4	10
LCD4/0-12H-X			12.7	106.4	26.9	44.4	10
LCD250-38DH-X	250 kcmil	Yellow P62	9.53	79.5	29.7	25.4	10
LCD250-12H-X			12.7	108.5	29.7	44.4	10

*UL Listed and CSA Certified with code, locomotive and class K & M weld cables.

‡Contact PANDUIT™ for flex cable die selection.

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.

◆ NEMA hole sizes and spacing

For AWG to mm² conversion tables see pages 192-194

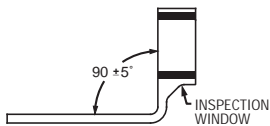
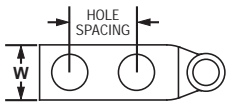


Copper Lugs – Two-Hole Lug Standard Barrel, 90° Angle Tongue

For Use With Copper Cables Only

Type LCD-F

- Colour coded to show proper die number and colour
- Tested by Telcordia and meets NEBS level 3
- UL Listed per 486A up to 35KV**
- Inspection window to visually assure full cable insertion



Part Number	Copper Conductor Size*	Die Colour & No.‡	Bolt Hole Size mm	Length (A) mm	Width (W) mm	Mounting Hole Spacing mm	Std. Pkg. Qty.
LCD10-10AF-L	#14 – #10 AWG STR #12 – #10 AWG SOL	—	4.83	37.3	9.7	16	50
LCD10-14AF-L			6.35	39.6	10.7	16	50
LCD10-38DF-L			9.53	54.9	14.2	25.4	50
LCD8-10AF-L	#8 AWG	Red P21	4.83	38.9	10.4	16	50
LCD8-14AF-L			6.35	41.1	12.2	16	50
LCD8-14BF-L			6.35	44.2	12.2	19	50
LCD8-14DF-L			6.35	50.5	12.2	25.4	50
LCD8-38DF-L			9.53	56.1	15.7	25.4	50
LCD6-10AF-L	#6 AWG	Blue P24	4.83	39.9	11.7	16	50
LCD6-14AF-L			6.35	42.2	12.2	16	50
LCD6-14BF-L			6.35	45.2	12.2	19	50
LCD6-14DF-L			6.35	51.6	12.2	25.4	50
LCD6-56DF-L			7.92	54.6	14.2	25.4	50
LCD6-38DF-L			9.53	57.2	15.7	25.4	50
LCD4-14AF-L	#4 – #3 AWG STR #2 AWG SOL	Grey P29	6.35	44.2	14.0	16	50
LCD4-14BF-L			6.35	47.5	14.0	19	50
LCD4-14DF-L			6.35	53.8	14.0	25.4	50
LCD4-38DF-L			9.53	59.4	15.7	25.4	50
LCD2-14AF-Q	#2 AWG	Brown P33	6.35	47.2	15.2	16	25
LCD2-14BF-Q			6.35	50.5	15.2	19	25
LCD2-14DF-Q			6.35	56.9	15.2	25.4	25
LCD2-56BF-Q			7.92	53.6	16.8	19	25
LCD2-38DF-Q			9.53	62.7	16.8	25.4	25
LCD2-12F-Q			12.7	91.7	19.0	44.4	25
LCD1-14AF-E	#1 AWG	Green P37	6.35	49.3	17.8	16	20
LCD1-14BF-E			6.35	52.3	17.8	19	20
LCD1-56CF-E			7.92	58.7	17.8	22.4	20
LCD1-38DF-E			9.53	63.8	17.8	25.4	20
LCD1-12F-E			12.7	93.5	19.0	44.4	20
LCD1/0-14AF-X	1/0 AWG	Pink P42	6.35	52.8	19.3	16	10
LCD1/0-14BF-X			6.35	55.9	19.3	19	10
LCD1/0-56CF-X			7.92	60.5	19.3	22.4	10
LCD1/0-38DF-X			9.53	65.5	19.3	25.4	10
LCD1/0-12F-X			12.7	95.3	20.3	44.4	10
LCD2/0-14AF-X	2/0 AWG	Black P45	6.35	56.4	21.6	16	10
LCD2/0-14BF-X			6.35	59.4	21.6	19	10
LCD2/0-56CF-X			7.92	62.7	21.6	22.4	10
LCD2/0-38DF-X			9.53	67.7	21.6	25.4	10
LCD2/0-12F-X			12.7	97.0	21.6	44.4	10
LCD3/0-14BF-X	3/0 AWG	Orange P50	6.35	61.5	24.4	19	10
LCD3/0-56DF-X			7.92	67.8	24.4	25.4	10
LCD3/0-38DF-X			9.53	69.3	24.4	25.4	10
LCD3/0-12F-X			12.7	98.8	24.4	44.4	10
LCD4/0-14BF-X	4/0 AWG	Purple P54	6.35	63.5	26.9	19	10
LCD4/0-38DF-X			9.53	72.1	26.9	25.4	10
LCD4/0-12F-X			12.7	101.1	26.9	44.4	10
LCD250-38DF-X	250 kcmil	Yellow P62	9.53	73.7	29.7	25.4	10
LCD250-12F-X			12.7	102.6	29.7	44.4	10

*UL Listed with code, locomotive and class K & M weld cables.

‡Contact PANDUIT™ for flex cable die selection.

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.

◆ NEMA hole sizes and spacing.

For AWG to mm² conversion tables see pages 192-194

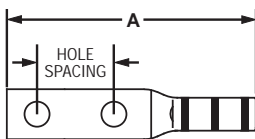


Copper Lugs – Two-Hole Lug, Long Barrel, with Inspection Window

For Use With Copper Cables Only

Type LCC-W

- Colour coded to show proper die number and colour
- UL Listed per 486A up to 35KV**
- Tested by Telcordia and meets NEBS level 3
- Inspection window to visually assure full cable insertion



One-Piece Construction

*UL Listed with code, locomotive and class K & M weld cables.
 ‡ Contact PANDUIT™ for flex cable tie selection.
 **Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.
 ◆ NEMA hole sizes and spacing.

Part Number	Copper Conductor Size *	Die Colour & No. ‡	Bolt Hole Size	Length (A)	Width (W)	Mounting Hole Spacing	Std. Pkg. Qty.		
			mm	mm	mm	mm			
LCC10-14AW-L	#14 – #10 AWG STR	—	6.35	49.0	10.7	16	50		
LCC10-14BW-L			6.35	52.3	10.7	19	50		
LCC8-10AW-L	#8 AWG	Red P21	4.83	51.3	10.4	16	50		
LCC8-10BW-L			4.83	54.4	10.4	19	50		
LCC8-14AW-L			6.35	53.3	12.2	16	50		
LCC8-14BW-L			6.35	56.6	12.2	19	50		
LCC8-14DW-L			6.35	63.0	12.2	25.4	50		
LCC8-38DW-L			9.53	68.6	15.2	25.4	50		
LCC6-10AW-L	#6 AWG	Blue P24	4.83	61.0	11.7	16	50		
LCC6-10BW-L			4.83	64.0	11.7	19	50		
LCC6-14AW-L			6.35	63.2	12.2	16	50		
LCC6-14BW-L			6.35	66.3	12.2	19	50		
LCC6-14DW-L			6.35	72.6	12.2	25.4	50		
LCC6-56BW-L			7.92	69.3	14.2	19	50		
LCC6-38BW-L			9.53	71.9	15.7	19	50		
LCC6-38CW-L			9.53	75.2	15.7	22.4	50		
LCC6-38DW-L			9.53	78.2	15.7	25.4	50		
LCC4-10AW-L			#4 – #3 AWG STR, #2 AWG SOL	Grey P29	4.83	61.0	14.0	16	50
LCC4-10BW-L					4.83	64.3	14.0	19	50
LCC4-14AW-L					6.35	63.5	14.0	16	50
LCC4-14BW-L	6.35	66.8			14.0	19	50		
LCC4-38DW-L	9.53	78.5			15.7	25.4	50		
LCC2-10AW-Q	#2 AWG	Brown P33	4.83	62.3	15.2	16	25		
LCC2-10BW-Q			4.83	68.3	15.2	19	25		
LCC2-14AW-Q			6.35	67.8	15.2	16	25		
LCC2-14BW-Q			6.35	70.9	15.2	19	25		
LCC2-14DW-Q			6.35	77.2	15.2	25.4	25		
LCC2-56BW-Q			7.92	74.2	16.8	19	25		
LCC2-56CW-Q			7.92	77.2	16.8	22.4	25		
LCC2-38BW-Q			9.53	75.9	16.8	19	25		
LCC2-38CW-Q			9.53	79.2	16.8	22.4	25		
LCC2-38DW-Q			9.53	82.3	16.8	25.4	25		
LCC2-38W-Q			9.53	101.3	16.8	44.4	25		
LCC2-12W-Q			12.7	112.0	19.0	44.4	25		
LCC1-14AW-E	#1 AWG	Green P37	6.35	73.4	17.8	16	20		
LCC1-14BW-E			6.35	76.5	17.8	19	20		
LCC1-56BW-E			7.92	79.8	17.8	19	20		
LCC1-56CW-E			7.92	82.8	17.8	22.4	20		
LCC1-38DW-E			9.53	87.9	17.8	25.4	20		
LCC1-12W-E			12.7	117.6	19.0	44.4	20		
LCC1/0-14AW-X	1/0 AWG	Pink P42	6.35	78.0	19.3	16	10		
LCC1/0-14BW-X			6.35	81.0	19.3	19	10		
LCC1/0-14DW-X			6.35	87.4	19.3	25.4	10		
LCC1/0-38DW-X			9.53	90.7	19.3	25.4	10		
LCC1/0-38W-X			9.53	109.7	19.3	44.4	10		
LCC1/0-12DW-X			12.7	97.5	20.3	25.4	10		
LCC1/0-12W-X			12.7	120.4	20.3	44.4	10		

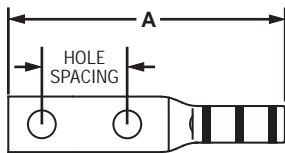
LCC-W product listing continued on the following page



Copper Lugs – Two-Hole Lug, Long Barrel, with Inspection Window (continued)

For Use With Copper Cables Only

Type LCC-W



One-Piece Construction

Part Number	Copper Conductor Size *	Die Colour & No. ‡	Bolt Hole Size	Length (A)	Width (W)	Mounting Hole Spacing	Std. Pkg. Qty.
			mm	mm	mm	mm	
LCC2/0-14AW-X	2/0 AWG	Black P45	6.35	82.0	21.6	16	10
LCC2/0-14BW-X			6.35	85.3	21.6	19	10
LCC2/0-56DW-X			7.92	91.7	21.6	25.4	10
LCC2/0-38DW-X			9.53	93.2	21.6	25.4	10
LCC2/0-12DW-X			12.7	99.6	21.6	25.4	10
LCC2/0-12W-X			12.7	122.7	21.6	44.4	10
LCC3/0-14BW-X	3/0 AWG	Orange P50	6.35	86.1	24.4	19	10
LCC3/0-56DW-X			7.92	92.5	24.4	25.4	10
LCC3/0-38DW-X			9.53	94.0	24.4	25.4	10
LCC3/0-12W-X			12.7	123.7	24.4	44.4	10
LCC3/0-12DW-X			12.7	100.3	24.4	25.4	10
LCC4/0-14AW-X	4/0 AWG	Purple P54	6.35	85.1	26.9	16	10
LCC4/0-14BW-X			6.35	88.4	26.9	19	10
LCC4/0-56DW-X			7.92	95.0	26.9	25.4	10
LCC4/0-38DW-X			9.53	96.8	26.9	25.4	10
LCC4/0-38W-X			9.53	115.8	26.9	44.4	10
LCC4/0-12W-X			12.7	125.7	26.9	44.4	10
LCC4/0-12DW-X			12.7	102.6	26.9	25.4	10
LCC250-56DW-X			250 kcmil	Yellow P62	7.92	97.0	29.7	25.4	10
LCC250-38DW-X	9.53	98.8			29.7	25.4	10
LCC250-12W-X	12.7	127.8			29.7	44.4	10
LCC250-12DW-X			12.7	104.6	29.7	25.4	10
LCC300-38DW-X	300 kcmil	White P66	9.53	115.3	30.2	25.4	10
LCC300-12W-X			12.7	145.3	30.2	44.4	10
LCC350-14BW-X	350 kcmil	Red P71	6.35	104.1	32.5	19	10
LCC350-12W-X			12.7	146.3	32.5	44.4	10
LCC400-14BW-6	400 kcmil	Blue P76	6.35	106.2	35.3	19	6
LCC400-38DW-6			9.53	118.4	35.3	25.4	6
LCC400-12W-6			12.7	148.3	32.5	44.4	6
LCC500-14BW-6	500 kcmil	Brown P87	6.35	113.3	39.1	19	6
LCC500-38DW-6			9.53	125.5	39.1	25.4	6
LCC500-12W-6			12.7	155.4	39.1	44.4	6
LCC600-38DW-6	600 kcmil	Green P94	9.53	131.6	43.2	25.4	6
LCC600-12W-6			12.7	161.5	43.2	44.4	6
LCC750-38DW-6	750 kcmil	Black P106	9.53	145.0	48.0	25.4	6
LCC750-12W-6			12.7	168.9	48.0	44.4	6
LCC800-12W-6	800 kcmil	Orange P107	12.7	171.2	49.5	44.4	6
LCC1000-38DW-3	1000 kcmil	White P125	9.53	151.1	55.1	25.4	3
LCC1000-12W-3			12.7	175.0	55.1	44.4	3

*UL Listed with code, locomotive and class K & M weld cables.

‡ Contact PANDUIT™ for flex cable die selection.

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.

◆NEMA hole sizes and spacing.

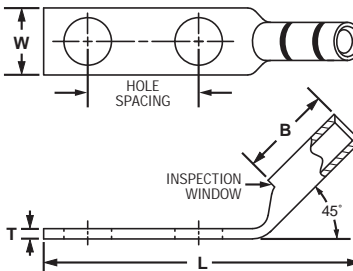


Copper Lugs -Two Hole Lug, Long Barrel, With Window - 45° Angle Tongue

For Use With Copper Cables Only

Type LCC-WH

- Colour coded to show proper die number and colour
- UL Listed per 486A up to 35KV**
- Tested by Telcordia and meets NEBS level 3
- Inspection window to visually assure full cable insertion



Part Number	Copper Conductor Size*	Die Colour & No.‡	Bolt Hole Size mm	Length (A) mm	Width (W) mm	Mounting Hole Spacing mm	Std. Pkg. Qty.		
LCC10-14AWH-L	#14 – #10 AWG STR #12 – #10 AWG SOL	—	6.35	45.2	10.7	16	50		
LCC10-14BWH-L			6.35	48.3	10.7	19	50		
LCC8-10AWH-L	#8 AWG	Red P21b	4.83	46.2	10.4	16	50		
LCC8-10BWH-L			4.83	49.5	10.4	19	50		
LCC8-14AWH-L			6.35	48.5	12.2	16	50		
LCC8-14BWH-L			6.35	51.6	12.2	19	50		
LCC8-14DWH-L			6.35	57.9	12.2	25.4	50		
LCC8-38DWH-L			9.53	63.2	15.2	25.4	50		
LCC6-10AWH-L	#6 AWG	Blue P24	4.83	53.1	11.7	16	50		
LCC6-10BWH-L			4.83	56.4	11.7	19	50		
LCC6-14AWH-L			6.35	55.4	12.2	16	50		
LCC6-14BWH-L			6.35	58.7	12.2	19	50		
LCC6-14DWH-L			6.35	65.0	12.2	25.4	50		
LCC6-56BWH-L			7.92	61.5	14.2	19	50		
LCC6-38BWH-L			9.53	64.0	15.7	19	50		
LCC6-38CWH-L			9.53	67.1	15.7	22.4	50		
LCC6-38DWH-L			9.53	70.4	15.7	25.4	50		
LCC4-10AWH-L			#4 – #3 AWG STR, #2 AWG SOL	Grey P29	4.83	53.6	14.0	16	50
LCC4-10BWH-L	4.83	53.6			14.0	19	50		
LCC4-14AWH-L	6.35	55.9			14.0	16	50		
LCC4-14BWH-L	6.35	56.6			14.0	19	50		
LCC4-38DWH-L			9.53	70.9	15.7	25.4	50		
LCC2-10AWH-Q	#2 AWG	Brown P33	4.83	56.1	15.2	16	25		
LCC2-10BWH-Q			4.83	59.2	15.2	19	25		
LCC2-14AWH-Q			6.35	58.7	15.2	16	25		
LCC2-14BWH-Q			6.35	59.2	15.2	19	25		
LCC2-14DWH-Q			6.35	68.1	15.2	25.4	25		
LCC2-56BWH-Q			7.92	64.8	16.8	19	25		
LCC2-56CWH-Q			7.92	68.1	16.8	22.4	25		
LCC2-38BWH-Q			9.53	66.8	16.8	19	25		
LCC2-38CWH-Q			9.53	69.9	16.8	22.4	25		
LCC2-38DWH-Q			9.53	73.2	16.8	25.4	25		
LCC2-38WH-Q			9.53	92.2	16.8	19	25		
LCC2-12WH-Q					12.7	102.4	19.0	44.4	25
LCC1-14AWH-E			#1 AWG	Green P37	6.35	102.4	17.8	16	20
LCC1-14BWH-E	6.35	65.5			17.8	19	20		
LCC1-56BWH-E	7.92	68.8			17.8	19	20		
LCC1-56CWH-E	7.92	71.9			17.8	22.4	20		
LCC1-38DWH-E	9.53	77.2			17.8	25.4	20		
LCC1-12WH-E					12.7	106.7	19.0	44.4	20

LCC-WH product listing continued on the following page

*UL Listed and CSA Certified with code, locomotive and class K & M weld cables.

‡ Contact PANDUIT™ for flex cable die selection.

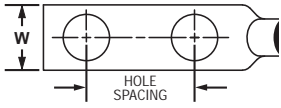
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.



Copper Lugs -Two Hole Lug, Long Barrel, With Window 45° Angle Tongue (continued)

For Use With Copper Cables Only

Type LCC-WH



Part Number	Copper Conductor Size*	Die Colour & No.‡	Bolt Hole Size	Length (A)	Width (W)	Mounting Hole Spacing	Std. Pkg. Qty.
			mm	mm	mm	mm	
LCC1/0-14AWH-X	1/0 AWG	Pink P42	6.35	66.3	19.3	16	10
LCC1/0-14BWH-X			6.35	69.3	19.3	19	10
LCC1/0-14DWH-X			6.35	75.7	19.3	25.4	10
LCC1/0-38DWH-X			9.53	79.0	19.3	25.4	10
LCC1/0-38WH-X			9.53	98.0	19.3	44.4	10
LCC1/0-12DWH-X			12.7	85.6	20.3	25.4	10
LCC1/0-12WH-X			12.7	108.7	20.3	44.4	10
LCC2/0-14AWH-X			2/0 AWG	Black P45	6.35	70.1	21.6	16	10
LCC2/0-14BWH-X	6.35	73.2			21.6	19	10
LCC2/0-56DWH-X	7.92	79.5			21.6	25.4	10
LCC2/0-38DWH-X	9.53	81.3			21.6	25.4	10
LCC2/0-12DWH-X	12.7	87.6			21.6	25.4	10
LCC2/0-12WH-X	12.7	110.7			21.6	44.4	10
LCC3/0-14BWH-X	3/0 AWG	Orange P50	6.35	73.9	24.4	19	10
LCC3/0-56DWH-X			7.92	80.3	24.4	25.4	10
LCC3/0-38DWH-X			9.53	81.8	24.4	25.4	10
LCC3/0-12DWH-X			12.7	88.1	24.4	25.4	10
LCC3/0-12WH-X	12.7	111.3	24.4	44.4	10		
LCC4/0-14BWH-X	4/0 AWG	Purple P54	6.35	75.7	26.9	19	10
LCC4/0-56DWH-X			7.92	92.3	26.9	25.4	10
LCC4/0-38DWH-X			9.53	84.1	26.9	25.4	10
LCC4/0-38WH-X			9.53	103.1	26.9	44.4	10
LCC4/0-12DWH-X			12.7	103.1	26.9	25.4	10
LCC4/0-12WH-X			12.7	113.0	26.9	44.4	10
LCC250-56DWH-X	250 kcmil	Yellow P62	7.92	84.1	29.7	25.4	10
LCC250-38DWH-X			9.53	85.6	29.7	25.4	10
LCC250-12DWH-X			12.7	91.7	29.7	25.4	10
LCC250-12WH-X			12.7	114.8	29.7	44.4	10
LCC300-38DWH-X	300 kcmil	White P66	9.53	99.8	30.2	25.4	10
LCC300-12WH-X			12.7	129.8	30.2	44.4	10
LCC350-14BWH-X	350 kcmil	Red P71	6.35	88.4	32.5	19	10
LCC350-38DWH-X			9.53	100.6	32.5	25.4	10
LCC350-12WH-X			12.7	130.6	32.5	44.4	10
LCC400-14BWH-6	400 kcmil	Blue 76	6.35	91.2	35.3	19	6
LCC400-38DWH-6			9.53	103.4	35.3	25.4	6
LCC400-12WH-6			12.7	133.1	35.3	44.4	6
LCC500-14BWH-6	500 kcmil	Brown P87	6.35	96.5	39.1	19	6
LCC500-38DWH-6			9.53	109.0	39.1	5.4	6
LCC500-12WH-6			12.7	138.7	39.1	44.4	6
LCC600-38DWH-6	600 kcmil	Green P94	9.53	113.5	43.2	25.4	6
LCC600-12WH-6			12.7	143.5	43.2	44.4	6

*UL Listed and CSA Certified with code, locomotive and class K & M weld cables.

‡ Contact PANDUIT™ for flex cable die selection.

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.

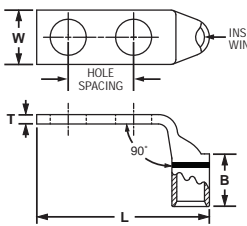


Copper Lugs - Two-Hole Lug, Long Barrel with Window - 90° Angle Tongue

For Use With Copper Cables Only

Type LCC-WF

- Colour coded to show proper die number and colour
- UL Listed per 486A up to 35KV**
- Tested by Telcordia and meets NEBS level 3
- Inspection window to visually assure full cable insertion



Part Number	Copper Conductor Size*	Die Colour & No.‡	Bolt Hole Size mm	Length (A) mm	Width (W) mm	Mounting Hole Spacing mm	Std. Pkg. Qty.
LCC10-14AWF-L	#14 – #10 AWG STR	—	6.35	39.9	10.7	16	50
LCC10-14BWF-L	#12 – #10 AWG SOL		6.35	42.9	10.7	19	50
LCC8-10AWF-L	#8 AWG	Red P21b	4.83	38.9	10.4	16	50
LCC8-10BWF-L			4.83	41.9	10.4	19	50
LCC8-14AWF-L			6.35	40.9	12.2	16	50
LCC8-14BWF-L			6.35	44.2	12.2	19	50
LCC8-14DWF-L			6.35	50.5	12.2	25.4	50
LCC8-38DWF-L			9.53	56.1	15.2	25.4	50
LCC6-10AWF-L	#6 AWG	Blue P24	4.83	39.9	11.7	16	50
LCC6-10BWF-L			4.83	42.9	11.7	19	50
LCC6-14AWF-L			6.35	42.2	12.2	16	50
LCC6-14BWF-L			6.35	45.2	12.2	19	50
LCC6-14DWF-L			6.35	51.6	12.2	25.4	50
LCC6-56BWF-L			7.92	48.3	14.2	19	50
LCC6-38BWF-L			9.53	50.8	15.7	19	50
LCC6-38CWF-L			9.53	54.1	15.7	22.4	50
LCC6-38DWF-L			9.53	57.2	15.7	25.4	50
LCC4-10AWF-L			#4 – #3 AWG STR, #2 AWG SOL	Grey P29	4.83	41.9	14.0	16	50
LCC4-10BWF-L	4.83	45.2			14.0	19	50
LCC4-14AWF-L	6.35	44.2			14.0	16	50
LCC4-14BWF-L	6.35	47.5			14.0	19	50
LCC4-38DWF-L	9.53	59.4			15.7	25.4	50
LCC2-10AWF-Q	#2 AWG	Brown P33	4.83	44.7	15.2	16	25
LCC2-10BWF-Q			4.83	48.0	15.2	19	25
LCC2-14AWF-Q			6.35	47.2	15.2	16	25
LCC2-14BWF-Q			6.35	50.5	15.2	19	25
LCC2-14DWF-Q			6.35	56.9	15.2	25.4	25
LCC2-56BWF-Q			7.92	53.6	16.8	19	25
LCC2-56CWF-Q			7.92	56.9	16.8	22.4	25
LCC2-38BWF-Q			9.53	55.6	16.8	19	25
LCC2-38CWF-Q			9.53	58.7	16.8	22.4	25
LCC2-38DWF-Q			9.53	62.0	16.8	25.4	25
LCC2-38WF-Q			9.53	81.0	16.8	44.4	25
LCC2-12WF-Q	12.7	91.7	19.0	44.4	25		
LCC1-14AWF-E	#1 AWG	Green P37	6.35	49.3	17.8	16	20
LCC1-14BWF-E			6.35	52.3	17.8	19	20
LCC1-56BWF-E			7.92	55.6	17.8	19	20
LCC1-56CWF-E			7.92	58.7	17.8	22.4	20
LCC1-38DWF-E			9.53	63.8	17.8	25.4	20
LCC1-12WF-E			12.7	93.5	19.0	44.4	20

LCC-WF product listing continued on the following page

*UL Listed and CSA Certified with code, locomotive and class K & M weld cables.

‡Contact PANDUIT™ for flex cable die selection.

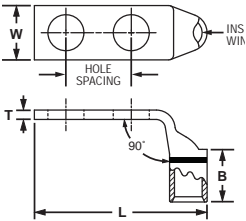
**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.



Copper Lugs - Two-Hole Lug, Long Barrel with Window - 90° Angle Tongue (continued)

For Use With Copper Cables Only

Type LCC



Part Number	Copper Conductor Size*	Die Colour & No.‡	Bolt Hole Size mm	Length (A) mm	Width (W) mm	Mounting Hole Spacing mm	Std. Pkg. Qty.
LCC1/0-14AWF-X	1/0 AWG	Pink P42	6.35	52.8	19.3	16	10
LCC1/0-14BWF-X			6.35	55.9	19.3	19	10
LCC1/0-14DWF-X			6.35	62.2	19.3	25.4	10
LCC1/0-38DWF-X			9.53	65.5	19.3	25.4	10
LCC1/0-38WF-X			9.53	84.6	19.3	44.4	10
LCC1/0-12DWF-X			12.7	72.4	20.3	25.4	10
LCC1/0-12WF-X			12.7	95.3	20.3	44.4	10
LCC2/0-14AWF-X	2/0 AWG	Black P45	6.35	56.4	21.6	16	10
LCC2/0-14BWF-X			6.35	59.4	21.6	19	10
LCC2/0-56DWF-X			7.92	65.8	21.6	25.4	10
LCC2/0-38DWF-X			9.53	67.7	21.6	25.4	10
LCC2/0-12DWF-X			12.7	73.9	21.6	25.4	10
LCC2/0-12WF-X			12.7	97.0	21.6	44.4	10
LCC3/0-14BWF-X	3/0 AWG	Orange P50	6.35	61.5	24.4	19	10
LCC3/0-56DWF-X			7.92	67.8	24.4	25.4	10
LCC3/0-38DWF-X			9.53	69.3	24.4	25.4	10
LCC3/0-12DWF-X			12.7	75.7	24.4	25.4	10
LCC3/0-12WF-X			12.7	98.8	24.4	44.4	10
LCC4/0-14BWF-X	4/0 AWG	Purple P54	6.35	63.5	26.9	19	10
LCC4/0-56DWF-X			7.92	70.4	26.9	25.4	10
LCC4/0-38DWF-X			9.53	72.1	26.9	25.4	10
LCC4/0-38WF-X			9.53	91.2	26.9	44.4	10
LCC4/0-12DWF-X			12.7	78.0	26.9	25.4	10
LCC4/0-12WF-X			12.7	101.1	26.9	44.4	10
LCC250-56DWF-X	250 kcmil	Yellow P62	7.92	71.9	29.7	25.4	10
LCC250-38DWF-X			9.53	73.7	29.7	25.4	10
LCC250-12DWF-X			12.7	79.5	29.7	25.4	10
LCC250-12WF-X			12.7	102.6	29.7	44.4	10
LCC300-38DWF-X	300 kcmil	White P66	9.53	73.2	30.2	25.4	10
LCC300-12WF-X			12.7	103.1	30.2	44.4	10
LCC350-14BWF-X	350 kcmil	Red P71	6.35	62.5	32.5	19	10
LCC350-38DWF-X			9.53	74.7	32.5	25.4	10
LCC350-12WF-X			12.7	104.6	32.5	44.4	10
LCC400-14BWF-6	400 kcmil	Blue P76	6.35	64.5	35.3	19	6
LCC400-38DWF-6			9.53	76.7	35.3	25.4	6
LCC400-12WF-6			12.7	106.7	35.3	44.4	6
LCC500-14BWF-6	500 kcmil	Brown P87	6.35	67.3	39.1	19	6
LCC500-38DWF-6			9.53	79.5	39.1	25.4	6
LCC500-12WF-6			12.7	109.5	39.1	44.4	6
LCC600-38DWF-6	600 kcmil	Green P94	9.53	82.8	43.2	25.4	6
LCC600-12WF-6			12.7	112.8	43.2	44.4	6

*UL Listed and CSA Certified with code, locomotive and class K & M weld cables.

‡Contact PANDUIT™ for flex cable die selection.

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.

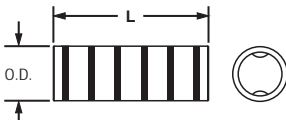


Copper Splices - Butt Splices, Standard Barrel

For Use With Copper Cables Only

Type SCS

- Colour coded to show proper die number and colour for code cable
- UL Listed and CSA Certified with code cables
- UL Listed per 486A up to 35KV**



Part Number	Copper Conductor Size*	Die Colour & No.	Barrel		Length (A) mm	Std. Pkg. Qty.
			I.D.	O.D.		
SCS8-L	#8 AWG	Red P21	.18	.27	38.1	50
SCS6-L	#6 AWG	Blue P24	.22	.31	44.4	50
SCS4-L	#4 – #3 AWG STR, #2 AWG SOL	Grey P29	.28	.38	44.4	50
SCS2-Q	#2 AWG	Brown P33	.31	.42	47.5	25
SCS1-E	#1 AWG	Green P37	.36	.47	47.5	20
SCS1/0-X	1/0 AWG	Pink P42	.39	.52	47.5	10
SCS2/0-X	2/0 AWG	Black P45	.45	.58	50.8	10
SCS3/0-X	3/0 AWG	Orange P50	.51	.64	53.8	10
SCS4/0-X	4/0 AWG	Purple P54	.56	.71	53.8	10
SCS250-X	250 kcmil	Yellow P62	.63	.77	57.2	10
SCS300-X	300 kcmil	White P66	.65	.81	57.2	10
SCS350-X	350 kcmil	Red P71	.70	.87	60.2	10
SCS400-6	400 kcmil	Blue P76	.76	.95	63.5	6
SCS500-6	500 kcmil	Brown P87	.84	1.05	72.9	6
SCS600-6	600 kcmil	Green P94	.92	1.18	72.9	6
SCS750-6	750 kcmil	Black P106	1.03	1.29	85.6	6
SCS1000-3	1000 kcmil	White P125	1.17	1.50	98.3	3

*U.L. Listed and CSA Certified with code, locomotive and class K & M weld cables.

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.

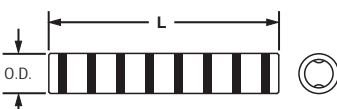


Copper Splices - Butt Splices, Long Barrel

For Use With Copper Cables Only

Type SCL

- Colour coded to show proper die number and colour for code cable
- UL Listed and CSA Certified with code cables
- UL Listed per 486A up to 35KV**



Part Number	Copper Conductor Size*	Die Colour & No.	Barrel		Length (A) mm	Std. Pkg. Qty.
			I.D.	O.D.		
SCL8-L	#8 AWG	Red P21	.18	.27	57.2	50
SCL6-L	#6 AWG	Blue P24	.22	.31	60.5	50
SCL4-L	#4 – #3 AWG STR, #2 AWG SOL	Grey P29	.28	.38	60.5	50
SCL2-Q	#2 AWG	Brown P33	.31	.42	66.5	25
SCL1-E	#1 AWG	Green P37	.36	.47	72.9	20
SCL1/0-X	1/0 AWG	Pink P42	.39	.52	72.9	10
SCL2/0-X	2/0 AWG	Black P45	.45	.58	79.5	10
SCL3/0-X	3/0 AWG	Orange P50	.51	.64	79.2	10
SCL4/0-X	4/0 AWG	Purple P54	.57	.71	85.6	10
SCL250-X	250 kcmil	Yellow P62	.63	.77	85.9	10
SCL300-X	300 kcmil	White P66	.65	.81	104.6	10
SCL350-X	350 kcmil	Red P71	.70	.88	104.6	10
SCL400-6	400 kcmil	Blue P76	.76	.95	111.0	6
SCL500-6	500 kcmil	Brown P87	.84	1.06	117.3	6
SCL600-6	600 kcmil	Green P94	.92	1.19	139.7	6
SCL750-6	750 kcmil	Black P106	1.03	1.30	149.1	6
SCL1000-3	1000 kcmil	White P125	1.17	1.50	155.4	3

*U.L. Listed and CSA Certified with code, locomotive and class K & M weld cables.

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000 volts.

UL LISTED C-Type Taps - Thick Wall Copper Compression

For Copper-to-Copper Connections

Type CTAP

- For tapping into unbroken continuous main, as a wire joint or 2-way splice
- UL Listed per 467 for grounding and bonding, acceptable for direct burial in earth or concrete



Part Number	Copper Conductor Size		Die Number	Height (H) mm	Std. Pkg. Qty.
	Run	Tap			
CTAP4-8-L	#6 – #4 SOL or STR	#8 SOL or STR	PBG	18.5	50
CTAP4-6-L	#6 STR, #4 SOL or STR	#6 SOL or STR	PBG	19.3	50
CTAP4-4-L	#4 SOL or STR	#4 STR	PBG	20.6	50
CTAP2-4-Q	#2 SOL or STR	#8 – #4 SOL or STR	PC	24.4	25
CTAP2-2-X	#2 SOL or STR	#2 SOL or STR	PC	26.7	10
CTAP2/0-2-X	1/0 – 2/0 STR	#8 – #2 SOL or STR	PO	33.5	10
CTAP2/0-2/0-X	1/0 – 2/0 STR	1/0 – 2/0 STR	PO	34.8	10
CTAP4/0-2-X	3/0 – 4/0 STR	#6 – #2 SOL or STR	PD3	42.2	10
CTAP4/0-2/0-X	3/0 – 4/0 STR	1/0 – 2/0 STR	PD3	39.9	10
CTAP4/0-4/0-X	3/0 – 4/0 STR	3/0 – 4/0 STR	PD3	39.9	10

UL LISTED SF CERTIFIED C-Type Taps - Thin Wall Copper Compression

For Copper-To-Copper Connections

Type CTAPF

- For stranded copper cable applications only
- For copper-to-copper tapping splicing or pigtailling
- Colour coded to show proper crimp die number and die colour
- Rated for 600V applications



Part Number	Copper Conductor Size (STR)		No. of Ribs	Inside Diameter (Q) mm	Length (A) mm	Std. Pkg. Qty.
	Run	Tap				
CTAPF10-16-C	#14 AWG #12 AWG #10 AWG	#16 AWG – #14 AWG #16 AWG – #12 AWG #14 AWG	0	4.8	10.4	100
CTAPF8-12-C	#10 AWG #8 AWG	#10 AWG #12 AWG	0	6.6	17.0	100
CTAPF6-12-C	#8 AWG #6 AWG	#10 AWG – #8 AWG #12 AWG – #10 AWG	0	8.1	17.0	100
CTAPF4-12-C	#6 AWG #5 AWG, #4 AWG	#8 AWG – #6 AWG #12 AWG – #8 AWG	1	10.21	31.8	100
CTAPF3-12-C	#5 AWG, #4 AWG #3 AWG	#6 AWG – #5 AWG #12 AWG – #6 AWG	1	11.7	31.8	100
CTAPF2-12-C	#4, #3, #2	#4 AWG #5 AWG #12 AWG – #6 AWG	1	13.0	31.8	100
CTAPF1-12-C	#3 AWG #2 AWG #1 AWG	#4 AWG – #3 AWG #5 AWG – #4 AWG #12 AWG – #5 AWG	2	14.5	46.2	100
CTAPF1/0-12-L	#2 AWG #1 AWG 1/0 AWG	#4 AWG – #2 AWG #4 AWG – #3 AWG #12 AWG – #4 AWG	2	16.0	46.2	50
CTAPF2/0-12-Q	#1 AWG 1/0 AWG 2/0 AWG	#2 AWG – #1 AWG #3 AWG – #2 AWG #12 AWG – #3 AWG	2	18.0	46.2	25
CTAPF3/0-12-Q	1/0 AWG 2/0 AWG 3/0 AWG	#1 AWG – 1/0 AWG #2 AWG – #1 AWG #12 AWG – #2 AWG	2	20.6	46.2	25

CTAPF10-16-C available with square, not flared ends.

CTAP Covers

- Protect CTAP connection from environment and act as insulation
- Tapered drains
- Double locking latches
- Made of durable, weather-resistant black polypropylene



Part Number	For PANDUIT™ C-Type Taps	Length (A)	Width (W)	Height (H)	Std. Pkg. Qty.
		mm	mm	mm	
TAPC2-2/0-X	CTAP2-2, CTAP2-4, CTAP4-4, CTAP4-6	117.4	40.6	56.4	10
TAPC3/0-4/0-5	CTAP4/0-4/0	143.5	43.7	60.5	5

For AWG to mm² conversion tables see pages 192-194



HTAP Copper Compression Taps

Type HTCT

- For making parallel and multiple tap connections on code and flex cables
- Made of high-conductivity, electro-tin plated copper
- Especially suited for low-resistance, low-voltage drop grounding
- Accommodate a wide range of conductor combinations from #14 AWG to 1000 kcmil
- Colour coded to show proper die number and colour
- Crimp with *PANDUIT*™ CT-930, CT-930CH, and CT-940CH crimp tools



Part Number	Main	Die Colour & Part No.	Thickness mm	Width mm	Height mm	Std. Pkg. Qty.
HTCT8-8-1	8-14 (8-14) code size (flex cable)	Green, CD-920H-8*	15.24mm	10.2	17.5	1
HTCT6-6-1	6-10 (6-10) code size (flex cable)	Orange, CD-920H-6*	15.49mm	10.2	25.1	1
HTCT2-2-1	2-6 (2-8) code size (flex cable)	Brown, CD-920H-2*	19.30mm	15.5	31.8	1
HTCT250-8-1	250-2 (4/0-2) code size (flex cable)	Purple, CD-930H-250**	23.4mm	24.4	48.8	1
HTCT250-2-1	250-2 (4/0-2) code size (flex cable)	Purple, CD-930H-250**	23.4mm	24.4	48.8	1
HTCT250-250-1	250-2 (4/0-2) code size (flex cable)	Purple, CD-930H-250**	22.86mm	22.6	48.8	1
HTCT500-250-1	500-4/0 (350-4/0) code size (flex cable)	Brown, CD-940H-500	25.4mm	31.8	77	1
HTCT500-500-1	500-250 (350-4/0) code size (flex cable)	Brown, CD-940H-500	26.67mm	31.5	62.0	1
HTCT750-4/0-1	750-350 (550-500 code size (flex cable)	Yellow, CD-940H-750	25.4mm	37.8	95.3	1
HTCT750-750-1	750-500 (550-500 code size (flex cable)	Yellow, CD-940H-750	32.0mm	37.1	80.3	1
HTCT1000-250-1	1000-750 (777-500) code size (flex cable)	Yellow, CD-940H-1000	25.4mm	40.4	95.3	1
HTCT1000-1000-1	1000-750 (750-500) code size (flex cable)	White, CD-940H-1000	25.4mm	43.2	83.8	1

*CD-940-DA adapter required for use with die with CT-940 tools.

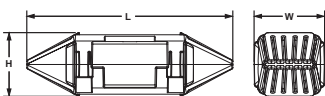
**Purple CD-930H-250 die with adapter can be used in place of purple CD-940H-250 die.



HTAP Covers

Type CLRCVR

- Protect HTAP connection from environment and act as insulation
- High impact, hard shell protection for HTAP applications using #14 AWG to 1000 kcmil conductors
- Made from high density, flame retardant clear polycarbonate material for maximum protection, durability, and length of life



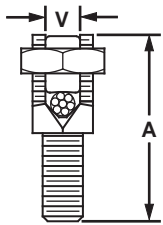
Part Number	For <i>PANDUIT</i> H-Type Taps	Length mm	Width mm	Height mm	Std. Pkg. Qty.
CLRCVR1-1	HTCT8-8-1, HTCT6-6-1	95.5	27.9	22.9	1
CLRCVR2-1	HTCT2-2-1	113.8	35.8	33	1
CLRCVR3-1	HTCT250-8-1, HTCT250-2-1	123.2	42.2	38.1	1
CLRCVR4-1	HTCT250-250-1	123.2	54.9	38.1	1

Use *PANDUIT* low-profile series cable ties to secure cover.

UL LISTED Bronze Service Post Connectors

Type SP1

- Male - one cable
- For grounding one conductor to steel structures, bus bars or transformers
- For tapping from bus bar
- Made from hard drawn copper rod
- UL Listed per 467 for grounding and bonding, acceptable for direct burial in earth and concrete

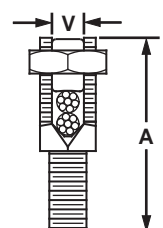


Part Number	Conductor Size Range (V)	Wire Diameter Range mm	Stud Size mm	Nut Hex mm	Length (A) mm	Std. Pkg. Qty.
SP1-8-C	#12 SOL - #8 STR	2.06mm - 3.71mm	6.35mm - 50.8mm	12.7mm	16.0	100
SP1-8-L-C	#12 SOL - #8 STR	2.06mm - 3.71mm	6.35mm - 50.8mm	12.7mm	16.0	100
SP1-7-C	#8 SOL - #7 STR	3.25mm - 4.17mm	6.35mm - 50.8mm	17.5mm	22.4	100
SP1-7-L-C	#8 SOL - #7 STR	3.25mm - 4.17mm	6.35mm - 50.8mm	17.5mm	22.4	100
SP1-4-C	#10 SOL - #4 STR	2.59mm - 5.89mm	7.93mm - 457.2mm	19.05mm	23.9	100
SP1-4-L-C	#10 SOL - #4 STR	2.59mm - 5.89mm	7.93mm - 457.2mm	19.05mm	23.9	100
SP1-3-C	#6 SOL - #3 STR	4.12mm - 6.60mm	9.53mm - 406.4mm	20.6mm	26.9	100
SP1-3-L-C	#6 SOL - #3 STR	4.12mm - 6.60mm	9.53mm - 406.4mm	20.6mm	26.9	100
SP1-2-C	#4 STR - #2 STR	5.89mm - 7.41mm	9.53mm - 406.4mm	22.3mm	26.9	100
SP1-2-L-C	#4 STR - #2 STR	5.89mm - 7.41mm	9.53mm - 406.4mm	22.3mm	26.9	100
SP1-1/0-L	#6 SOL - 1/0 STR	4.11mm - 9.53mm	12.7mm - 330.2mm	25.4mm	33.3	50
SP1-1/0L-L	#6 SOL - 1/0 STR	4.11mm - 9.53mm	12.7mm - 330.2mm	25.4mm	33.3	50
SP1-2/0-Q	#1 SOL - 2/0 STR	7.34mm - 10.6mm	12.7mm - 330.2mm	28.7mm	36.6	25
SP1-2/0L-Q	#1 SOL - 2/0 STR	7.34mm - 10.6mm	12.7mm - 330.2mm	28.7mm	36.6	25
SP1-4/0-Q	3/0 SOL - 4/0 STR	10.41mm - 13.41mm	15.9mm - 279.4mm	35mm	42.9	25
SP1-4/0L-Q	3/0 SOL - 4/0 STR	10.41mm - 13.41mm	15.9mm - 279.4mm	35mm	42.9	25
SP1-350-12	4/0 STR - 350 kcmil	13.41mm - 17.32mm	15.9mm - 279.4mm	38.1mm	50.8	12
SP1-350L-12	4/0 STR - 350 kcmil	13.41mm - 17.32mm	15.9mm - 279.4mm	38.1mm	50.8	12
SP1-500-12	250 kcmil - 500 kcmil	14.61mm - 20.70mm	19.05mm - 254mm	45.9mm	58.7	12
SP1-500L-12	250 kcmil - 500 kcmil	14.61mm - 20.70mm	19.05mm - 254mm	45.9mm	58.7	12

UL LISTED Bronze Service Post Connectors

Type SP2

- Male - two cables
- For grounding two conductors to steel structures, bus bars or transformers
- For tapping from bus bar
- Made from hard drawn copper rod
- UL Listed per 467 for grounding and bonding, acceptable for direct burial in earth and concrete



Part Number	Conductor Size Range (V)	Wire Diameter Range mm	Stud Size mm	Nut Hex mm	Length (A) mm	Std. Pkg. Qty.
SP2-8-C	#12 SOL - #8 STR	2.06mm - 3.71mm	6.35mm - 50.8mm	12.7mm	19.0	100
SP2-8-L-C	#12 SOL - #8 STR	2.06mm - 3.71mm	6.35mm - 50.8mm	12.7mm	19.0	100
SP2-7-C	#10 SOL - #7 STR	2.59mm - 4.2mm	6.35mm - 50.8mm	17.5mm	25.4	100
SP2-7-L-C	#10 SOL - #7 STR	2.59mm - 4.2mm	6.35mm - 50.8mm	17.5mm	25.4	100
SP2-4-C	#10 SOL - #4 STR	2.59mm - 5.89mm	7.9mm - 457.2mm	19.05mm	29.5	100
SP2-4-L-C	#10 SOL - #4 STR	2.59mm - 5.89mm	7.9mm - 457.2mm	19.05mm	29.5	100
SP2-3-C	#10 SOL - #3 STR	2.59mm - 6.6mm	9.5mm - 406.4mm	20.6mm	27.7	100
SP2-3-L-C	#10 SOL - #3 STR	2.59mm - 6.6mm	9.5mm - 406.4mm	20.6mm	27.7	100
SP2-2-C	#10 SOL - #2 STR	2.59mm - 6.4mm	9.5mm - 406.4mm	22.4mm	35.1	100
SP2-2-L-C	#10 SOL - #2 STR	2.59mm - 6.4mm	9.5mm - 406.4mm	22.4mm	32.5	100
SP2-1/0-L	#2 SOL - 1/0 STR	6.55mm - 9.5mm	12.7mm - 330mm	25.4mm	42.9	50
SP2-1/0L-L	#2 SOL - 1/0 STR	6.55mm - 9.5mm	12.7mm - 330mm	25.4mm	42.9	50
SP2-2/0-Q	#2 SOL - 2/0 STR	6.55mm - 10.64mm	12.7mm - 330mm	28.7mm	47.8	25
SP2-2/0L-Q	#2 SOL - 2/0 STR	6.55mm - 10.64mm	12.7mm - 330mm	28.7mm	47.8	25
SP2-4/0-Q	#1 SOL - 4/0 STR	7.34mm - 13.4mm	15.9mm - 279.4mm	35.1mm	57.2	25
SP2-4/0L-Q	#1 SOL - 4/0 STR	7.34mm - 13.4mm	15.9mm - 279.4mm	35.1mm	57.2	25
SP2-350-12	#1 STR - 350 kcmil	8.43mm - 17.3mm	15.9mm - 279.4mm	38.1mm	68.3	12
SP2-350L-12	#1 STR - 350 kcmil	8.43mm - 17.3mm	15.9mm - 279.4mm	38.1mm	68.3	12
SP2-500-12	#3/0 STR - 500 kcmil	11.19mm - 20.7mm	19.05mm - 254mm	46mm	81.0	12
SP2-500L-12	#3/0 STR - 500 kcmil	11.19mm - 20.7mm	19.05mm - 254mm	46mm	81.0	12

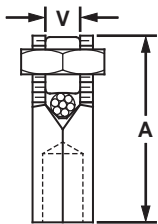
For AWG to mm² conversion tables see pages 192-194



Bronze Service Post Connectors

Type SPF1

- Female - one cable
- For connecting one conductor to external studs
- For grounding to steel structures, bus bars or transformers



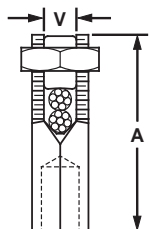
Part Number	Conductor Size Range (V)	Wire Diameter Range mm	Stud Size mm	Nut Hex mm	Length (A)	Std. Pkg. Qty.
					mm	
SPF1-8-C	#12 SOL – #8 STR	2.06mm - 3.71mm	6.35mm - 50.8mm	12.7mm	23.1	100
SPF1-7-C	#10 SOL – #7 STR	2.59mm - 4.2mm	6.35mm - 50.8mm	17.5mm	28.7	100
SPF1-4-C	#8 SOL – #4 STR	3.25mm - 5.89mm	7.93mm - 457.2mm	19.05mm	36.6	100
SPF1-3-C	#6 STR – #3 STR	4.7mm - 6.60mm	9.53mm - 406.4mm	20.06mm	38.1	100
SPF1-2-C	#6 STR – #2 STR	4.7mm - 7.42mm	9.53mm - 406.4mm	22.3mm	41.4	100
SPF1-1/0-L	#2 SOL – 1/0 STR	6.55mm - 9.5mm	12.7mm - 330.2mm	25.4mm	47.8	50
SPF1-2/0-Q	#1 SOL – 2/0 STR	7.34mm - 10.6mm	12.7mm - 330.2mm	28.7mm	52.3	25
SPF1-4/0-Q	1/0 STR – 4/0 STR	9.5mm - 13.41mm	15.9mm - 279.4mm	35mm	60.5	25
SPF1-350-12	4/0 STR – 350 kcmil	13.41mm - 17.32mm	15.9mm - 279.4mm	38.1mm	66.8	12
SPF1-500-12	300 kcmil – 500 kcmil	16.10mm - 20.7mm	19.05mm - 254mm	45.9mm	79.5	12



Bronze Service Post Connectors

Type SPF2

- Female - two cables
- For connecting two conductors to external threaded studs
- For grounding to steel structures, bus bars or transformers



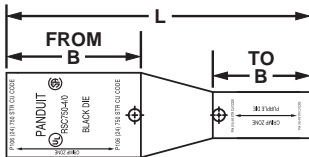
Part Number	Conductor Size Range (V)	Wire Diameter Range mm	Stud Size mm	Nut Hex mm	Length (A)	Std. Pkg. Qty.
					mm	
SPF2-8-C	#12 SOL – #8 STR	2.06mm - 3.71mm	6.35mm - 50.8mm	12.7mm	28.7	100
SPF2-7-C	#10 SOL – #7 STR	2.59mm - 4.2mm	6.35mm - 50.8mm	17.5mm	36.6	100
SPF2-4-C	#10 SOL – #4 STR	2.59mm - 5.89mm	7.93mm - 457.2mm	19.05mm	39.6	100
SPF2-3-C	#10 SOL – #3 STR	2.59mm - 6.60mm	9.53mm - 406.4mm	20.06mm	41.4	100
SPF2-2-C	#10 SOL – #2 STR	2.59mm - 7.42mm	9.53mm - 406.4mm	22.3mm	49.3	100
SPF2-1/0-L	#2 SOL – 1/0 STR	6.50mm - 9.5mm	12.7mm - 330.2mm	25.4mm	54.1	50
SPF2-2/0-Q	#2 SOL – 2/0 STR	6.55mm - 10.6mm	12.7mm - 330.2mm	28.7mm	58.7	25
SPF2-4/0-Q	#1 SOL – 4/0 STR	7.34mm - 13.41mm	15.9mm - 279.4mm	35mm	63.5	25
SPF2-350-12	#1 STR – 350 kcmil	8.43mm - 17.32mm	15.9mm - 279.4mm	38.1mm	68.3	12
SPF2-500-12	3/0 STR – 500 kcmil	11.9mm - 20.7mm	19.05mm - 254mm	45.9mm	84.1	12



TAPER-SPLICE™ In-Line Reducer

Type RSC

- Manufactured from seamless, high conductivity copper tubing
- Colour coded for identification of wire size & type, proper crimp die selection and crimp location
- UL Listed per 486A up to 35 KV*** and 90°C temperature rated
- Inspection window in each barrel to visually assure full cable insertion
- Internally beveled wire entry for easy cable insertion
- Electro-tin plated to inhibit corrosion



Part Number	Length (A) mm	Conductor Size Reduce From	Die Colour & Die Index No.	Conductor Size Reduce To	Die Colour & Die Index No.	Std. Pkg. Qty.
RSC4-6-L	64.5	4 AWG	Grey P29	6 AWG	Blue P24	50
RSC2-6-Q	66.5	2 AWG	Brown P33	6 AWG	Blue P24	25
RSC2-4-Q	63.5	2 AWG	Brown P33	4 AWG	Grey P29	25
RSC1/0-6-X	71.4	1/0 AWG	Pink P42	6 AWG	Blue P24	10
RSC1/0-4-X	68.6	1/0 AWG	Pink P42	4 AWG	Grey P29	10
RSC2/0-6-X	75.9	2/0 AWG	Black P45	6 AWG	Blue P24	10
RSC2/0-4-X	73.2	2/0 AWG	Black P45	4 AWG	Grey P29	10
RSC4/0-6-X	82.3	4/0 AWG	Purple P54	6 AWG	Blue P24	10
RSC4/0-4-X	79.2	4/0 AWG	Purple P54	4 AWG	Grey P29	10
RSC750-4/0-6	118.36	750 kcmil	Black P106	4/0 AWG	Purple P54	6
RSC750-X4/0-6	115.3	750 kcmil	Black P106	4/0 Flex	Yellow P62	6
RSC750-X350-6	113.0	750 kcmil	Black P106	350 Flex	Blue P76	6
RSCX750-4/0-3	128.0	750 Flex	Orange P107	4/0 AWG	Purple P54	3
RSCX750-750-3	114.3	750 Flex	Orange P107	750 kcmil	Black P106	3

** Consult cable mfg. for voltage stress relief instructions with applications greater than 2000 volts.



TAPER-SPLICE™ Kits

Type RSCK



- Includes all components in one package for complete electrical connection
- Clear PVC heat shrink sleeves pre-cut to length to insulate reducing splice
- Clear PVC allows easy visual inspection of installed reducing splice
- UL and CSA Certified up to 600 volts when used with PANDUIT™ reducing splices
- Low temperature requirement allows application with low temperature heat gun
- UL 224 VW-1 flame rating, excellent flame retardant capability
- UL Recognized temperature rating of 150°C, high temperature insulating property

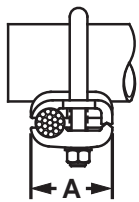
Part Number	Kit Contents	Std. Pkg. Qty.
RSC4-6-1	1 pc. RSC4-6-L copper compression in-line reducing splice 1 pc. HSTTPN50-713-Q crystal clear PVC heat shrink 12.7mm x 181mm long	1
RSC2-6-1	1 pc. RSC2-6-Q copper compression in-line reducing splice 1 pc. HSTTPN62-750-Q crystal clear PVC heat shrink 15.9mm x 190.5mm long	1
RSC2-4-1	1 pc. RSC2-4-Q copper compression in-line reducing splice 1 pc. HSTTPN62-750-Q crystal clear PVC heat shrink 15.9mm x 190.5mm long	1
RSC1/0-6-1	1 pc. RSC1/0-6-X copper compression in-line reducing splice 1 pc. HSTTPN75-775-Q crystal clear PVC heat shrink 15.9mm x 196.9mm long 1 pc. HSTTPN50-438-L crystal clear PVC heat shrink 12.7mm x 111.1mm long	1
RSC1/0-4-1	1 pc. RSC1/0-4-X copper compression in-line reducing splice 1 pc. HSTTPN75-775-Q crystal clear PVC heat shrink 15.9mm x 196.9mm long 1 pc. HSTTPN50-438-L crystal clear PVC heat shrink 12.7mm x 111.1mm long	1
RSC2/0-6-1	1 pc. RSC2/0-6-X copper compression in-line reducing splice 1 pc. HSTTPN75-775-Q crystal clear PVC heat shrink 15.9mm x 196.9mm long 1 pc. HSTTPN50-438-L crystal clear PVC heat shrink 12.7mm x 111.1mm long	1
RSC2/0-4-1	1 pc. RSC2/0-4-X copper compression in-line reducing splice 1 pc. HSTTPN75-775-Q crystal clear PVC heat shrink 15.9mm x 196.9mm long 1 pc. HSTTPN50-438-L crystal clear PVC heat shrink 12.7mm x 111.1mm long	1
RSC4/0-6-1	1 pc. RSC4/0-6-X copper compression in-line reducing splice 1 pc. HSTTPN100-775-Q crystal clear PVC heat shrink 25.4mm x 196.9mm long 1 pc. HSTTPN50-438-L crystal clear PVC heat shrink 12.7mm x 111.1mm long	1
RSC4/0-4-1	1 pc. RSC4/0-4-X copper compression in-line reducing splice 1 pc. HSTTPN100-775-Q crystal clear PVC heat shrink 25.4mm x 196.9mm long 1 pc. HSTTPN50-438-L crystal clear PVC heat shrink 12.7mm x 111.1mm long	1
RSC750-4/0-1	1 pc. RSC750-4/0-6 copper compression in-line reducing splice 1 pc. HSTTPN150-925-X crystal clear PVC heat shrink 38.1mm x 235mm long 1 pc. HSTTPN100-775-Q crystal clear PVC heat shrink 25.4mm x 196.9mm long	1
RSC750-X4/0-1	1 pc. RSC750-X4/0-6 copper compression in-line reducing splice 1 pc. HSTTPN150-925-X crystal clear PVC heat shrink 38.1mm x 235mm long	1
RSC750-X350-1	1 pc. RSC750-X350-6 copper compression in-line reducing splice 1 pc. HSTTPN150-925-X crystal clear PVC heat shrink 38.1mm x 235mm long	1
RSCX750-4/0-1	1 pc. RSCX750-4/0-3 copper compression in-line reducing splice 1 pc. HSTTPN200-950-X crystal clear PVC heat shrink 50.8mm x 241.3mm long 1 pc. HSTTPN100-775-Q crystal clear PVC heat shrink 25.4mm x 196.9mm long	1
RSCX750-750-1	1 pc. RSCX750-750-3 copper compression in-line reducing splice 1 pc. HSTTPN200-950-X crystal clear PVC heat shrink 50.8mm x 241.3mm	1



Bronze Grounding Clamps – U-Bolt Style

Type GPL

- Joins copper cable parallel or at a right angle to a rod, tube or pipe



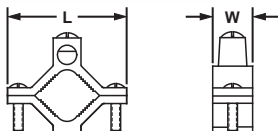
Part Number	Accommodates		Conductor Size Range	Wire Diameter Range mm	Length (A) mm	Std. Pkg. Qty.
	Rod	IPS				
GPL-4-Q	5/8 or 3/4	9.5mm	#8 SOL – #4 STR	3.25mm - 5.89mm	50.8	25
GPL-5-Q	5/8 or 3/4	9.5mm	#4 SOL – 2/0 STR	5.18mm - 10.6mm	50.8	25
GPL-6-Q	5/8 or 3/4	9.5mm	2/0 SOL – 250 kcmil	9.3mm - 14.6mm	50.8	25
GPL-8-Q	7/8 or 1	12.7mm or 19.05mm	#8 SOL – #4 STR	3.25mm - 5.89mm	60.5	25
GPL-9-Q	7/8 or 1	12.7mm or 19.05mm	#4 SOL – 2/0 STR	5.18mm - 10.6mm	60.5	25
GPL-10-Q	7/8 or 1	12.7mm or 19.05mm	2/0 SOL – 250 kcmil	9.3mm - 14.6mm	60.5	25
GPL-14-X	—	25.4mm	#8 SOL – #4 STR	3.25mm - 5.89mm	66.8	10
GPL-15-X	—	25.4mm	#4 SOL – 2/0 STR	5.18mm - 10.6mm	66.8	10
GPL-16-X	—	25.4mm	2/0 SOL – 250 kcmil	9.3mm - 14.6mm	66.8	10
GPL-20-X	—	31.8mm	#8 SOL – #4 STR	3.25mm - 5.89mm	76.2	10
GPL-21-X	—	31.8mm	#4 SOL – 2/0 STR	5.18mm - 10.6mm	76.2	10
GPL-22-X	—	31.8mm	2/0 SOL – 250 kcmil	9.3mm - 14.6mm	76.2	10
GPL-26-X	—	38.1mm	#8 SOL – #4 STR	3.25mm - 5.89mm	82.6	10
GPL-27-X	—	38.1mm	#4 SOL – 2/0 STR	5.18mm - 10.6mm	82.6	10
GPL-28-X	—	38.1mm	2/0 SOL – 250 kcmil	9.3mm - 14.6mm	82.6	10
GPL-32-3	—	50.8mm	#8 SOL – #4 STR	3.25mm - 5.89mm	95.3	3
GPL-33-3	—	50.8mm	#4 SOL – 2/0 STR	5.18mm - 10.6mm	95.3	3
GPL-34-3	—	50.8mm	2/0 SOL – 250 kcmil	9.3mm - 14.6mm	95.3	3
GPL-39-3	—	63.5mm	#4 SOL – 2/0 STR	5.18mm - 10.6mm	107.9	3
GPL-40-3	—	63.5mm	2/0 SOL – 250 kcmil	9.3mm - 14.6mm	107.9	3
GPL-44-1	—	76.2mm	#8 SOL – #4 STR	3.25mm - 5.89mm	120.6	1
GPL-45-1	—	76.2mm	#4 SOL – 2/0 STR	5.18mm - 10.6mm	120.6	1
GPL-46-1	—	76.2mm	2/0 SOL – 250 kcmil	9.3mm - 14.6mm	120.6	1
GPL-51-1	—	88.9mm	#4 SOL – 2/0 STR	5.18mm - 10.6mm	133.4	1
GPL-52-1	—	88.9mm	2/0 SOL – 250 kcmil	9.3mm - 14.6mm	133.4	1
GPL-57-1	—	101.6mm	#4 SOL – 2/0 STR	5.18mm - 10.6mm	146.0	1
GPL-58-1	—	101.6mm	2/0 SOL – 250 kcmil	9.3mm - 14.6mm	146.0	1



Bronze Grounding Pipe Clamps

Type KP

- Grounds copper conductors to water pipe or copper tube
- Cast from high strength bronze
- Screws plated for corrosion resistance
- CSA Certified and UL Listed per UL 467 for ground and bonding



Part Number	Water Pipe Range mm	Conductor Range Tap	Wire Diameter Range mm	Length	Width	Std. Pkg. Qty.
				mm	mm	
KP1-C	12.7mm - 25.4mm	#10 SOL - #2 STR	2.59mm - 7.42mm	57.9	16.8	100
KP2-L	31.8mm - 50.8mm	#10 SOL - #2 STR	2.59mm - 7.42mm	90.9	18.5	50

Heavy Duty Crimp Tool - Hand Operated

- Available with or without control cycle feature
- Develops 6 tons of crimping force
- Cushioned grips
- Fast die change-over uses single retention screw
- Colour coded crimp dies
- Embosses die index number on crimp connector



CT-720 shown with CC-720 controlled cycle mechanism (standard with CT-720-7CC & CT-720-3CC kit)

Part Number	Part Description	Std. Pkg. Qty.
CT-720	Manual crimping tool for UL Listed or Recognized and CSA Certified terminations of <i>PANDUIT™ PAN-LUG™</i> copper compression lugs and splices for #8 AWG – 500 kcmil copper code conductor and aluminium compression lugs and splices for #6 AWG – 350 kcmil copper and aluminum code conductors. Provides UL Listed terminations of <i>PANDUIT PAN-TERM™ #8 – #2 AWG</i> vinyl insulated terminals. Colour coded CD-720 crimp dies, carrying/storage case and controlled-cycle mechanism must be purchased separately. Specifications: Output: 6.09 tonnes Weight: 3.5kg Length: 660.4mm Handle span: 1473.2mm (open), 63.5mm (closed) Warranty: 90 days	1
CC-720	Optional control cycle mechanism only. Total weight of tool with CC-720 is 3.75kg	1

Dies for CT-720

- Colour coded
- Embosses die index number on properly installed crimps



Part Number	Used to Install <i>PANDUIT™</i> Compression Connector Sizes: Copper	Std. Pkg. Qty.
CD-720-1	#8 – #2 AWG	1
CD-720-2	#1 – 3/0 AWG	1
CD-720-3	4/0 – 250 kcmil	1
CD-720-4	300 kcmil	1
CD-720-5	350 kcmil	1
CD-720-6	400 kcmil	1
CD-720-7	500 kcmil	1
CD-720PV8-2	#8 - #2 AWG vinyl insulated <i>PAN-TERM</i> terminals	1

Kits for CT-720



Includes tool, crimp dies and carrying case

Part Number	Part Description	Kit Contents	Std. Pkg. Qty.
CT-720-7	Basic tool kit with seven dies.	Includes: • Seven dies (CD-720-1 – 7) for installing #8 AWG – 500 kcmil copper compression connectors • Carrying/storage case (C-720)	1
CT-720-7CC	Controlled cycle tool kit with seven dies. Controlled cycle mechanism factory installed on crimping tool.	Includes: • Seven dies (CD-720-1 – 7) for installing #8 AWG – 500 kcmil copper compression connectors • Carrying/storage case (C-720)	1
CT-720-3	Basic tool kit with three dies.	Includes: • Three dies (CD-720-1 – 3) for installing #8 AWG – 250 kcmil copper compression connectors • Carrying/storage case (C-720)	1
CT-720-3CC	Controlled cycle tool kit with three dies. Controlled cycle mechanism factory installed on crimping tool.	Includes: • Three dies (CD-720-1 – 3) for installing #8 AWG – 250 kcmil copper compression connectors • Carrying/storage case (C-720)	1
C-720	Steel carrying case for CT-720 crimping tool.	—	1

CONTOUR CRIMP™ Controlled Cycle Crimp Tool

- Ergonomically designed to dramatically reduce stress in hand and wrist
- Controlled cycle crimp mechanism assures a full crimp cycle for reliable terminations
- Built-in ratchet device is releasable for added safety
- Emergency mid-cycle release



CT-1700

Part Number	Part Description	Std. Pkg. Qty.
CT-1700	Crimps PANDUIT™ #8 – #2 AWG non-insulated tubular terminals (S series), #8 – #1 AWG copper lugs and splices, #6 – #4 AWG aluminum lugs and splices, and CTAPF copper taps for #14 – #3 AWG. Includes 5 position, colour coded rotating die.	1
CT-1701	Crimps PANDUIT #10 – #2 AWG non-insulated large gauge ring terminal (P series). Crimps #8 – #1 AWG copper lugs and splices, and #6 – #4 AWG aluminum lugs and splices, and #14 – #3 AWG CTAPF copper taps. Includes 5 position rotating die.	1

CONTOUR CRIMP Controlled-Cycle Crimp Tools

- Specifically designed for the installation of PAN-TERM™ terminals, disconnects and splices
- Ergonomically designed to reduce stress in hand and wrist



CT-1550



CT-1551



CT-1570

Part Number	Part Description	Std. Pkg. Qty.
CT-1550	Crimps PANDUIT #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-1551	Crimps PANDUIT #22 – #10 AWG nylon and vinyl insulated terminals, splices and disconnects. The CT-1551 has the yellow pocket closest to the pivot which provides a reduced crimp effort for those who make yellow terminations.	1
CT-1570	Crimps PANDUIT #22 – #10 AWG and .5-6.0 mm non-insulated terminals and disconnects. Crimps PANDUIT #22 – #10 AWG and .5-6.0 mm non-insulated splices, and #10 AWG compression lugs.	1

For AWG to mm² conversion tables see pages 192-194

Controlled Cycle Hydraulic Crimp Tool

- Generates 14 tons of crimping force
- Two-stage rapid ram advance; connectors can be held in die set while conductor is inserted
- Audible “click” when cycle is complete
- Fast die changeover
- Tool head rotates for ease of installation
- Recalibration capability for quality control programs



Part Number	Part Description	Std. Pkg. Qty.
CT-930	<p>Terminates <i>PANDUIT™ PAN-LUG™</i> Compression Connectors:</p> <ul style="list-style-type: none"> • Copper compression lugs and splices for #8 AWG – 750 kcmil code conductor • Copper compression lugs and splices for #8 AWG – 600 kcmil flex conductor • Copper compression CTAPF taps for #10 AWG – 3/0 AWG code conductor • Copper compression CTAP taps for #8 AWG – 4/0 AWG code conductor • Copper compression HTCT taps for #14 AWG – 250 kcmil code conductor, #14 AWG – 4/0 AWG flex conductor • Aluminum compression lugs and splices for #6 AWG – 600 kcmil code conductor • Aluminum compression HTAPS for #14 AWG – 500 kcmil code conductor • <i>PANDUIT™ PAN-TERM™</i> Tubular Terminals for #8 AWG – 250 kcmil code conductor <p>Specifications: Output: 14.22 tonnes Jaw Opening: 41.91mm Weight: 7.5kg Length: 635mm Handle Span: 190.5mm (open), 152.4mm (closed) Warranty: 5 years</p> <p>CT-930 includes: • Tool • Plastic tool case with die storage</p>	1

Crimp Dies - CD-920

- Colour coded 2-piece die sets
- Interchangeable on CT-920, CT-2920, CT-930, CT-920CH, CT-930CH, CT-940CH with CD-940-DA adapter
- Embossed die index number when crimped with *PANDUIT™* tool



Part Number	Used to Install <i>PANDUIT™</i> Compression Lug & Splice Sizes				Std. Pkg. Qty.
	Copper Conductor Size Code	Copper Die Colour & No.	Aluminium Conductor Size Code	Aluminium Die Colour & No.	
CD-920-8	#8 AWG	Red P21	—	—	1
CD-920-6	#6 AWG	Blue P24	—	—	1
CD-920-4	#4 AWG	Grey P29	#6 AWG	Grey P29	1
CD-920-2	#2 AWG	Brown P33	—	—	1
CD-920-1	#1 AWG	Green P37	#4 AWG	Green P37	1
CD-920-1/0	1/0 AWG	Pink P42	#2 AWG	Pink P42	1
CD-920-2/0	2/0 AWG	Black P45	#1 AWG	Gold P45	1
CD-920-3/0	3/0 AWG	Orange P50	1/0 AWG	Tan P50	1
CD-920-4/0	4/0 AWG	Purple P54	2/0 AWG	Olive P54	1
CD-920-250	250 kcmil	Yellow P62	3/0 AWG	Ruby P62	1
CD-920-300	300 kcmil	White P66	4/0 AWG	White P66	1
CD-920-350	350 kcmil	Red P71	250 kcmil	Red P71	1
CD-920-400	400 kcmil	Blue P76	300 kcmil	Blue P76	1
CD-920-500	500 kcmil	Brown P87	350 kcmil	Brown P87	1
CD-920-600	600 kcmil	Green P94	400 kcmil	Green P94	1
CD-920-500A	500 kcmil flex, 600 kcmil flex	Pink P99	500 kcmil	Pink P99	1
CD-920-750	750 kcmil	Black P106	600 kcmil	Black P106	1

For AWG to mm² conversion tables see pages 192-194

Hydraulic Crimp Tool, Dieless

- Generates 6.2 tons of crimping force
- 2-stage hydraulic pump
- No need to fully retract indenters
- Light weight and portable
- Wire range taking capability

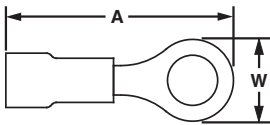


Part Number	Part Description	Std. Pkg. Qty.
CT-980	<p>Manual hydraulic <i>UNI-DIE</i>™ dieless crimping tool provides UL Listed or Recognised and CSA Certified terminations of <i>PANDUIT</i>™ <i>PAN-LUG</i>™ copper compression lugs and splices for #4 AWG – 750 kcmil copper code conductor. Terminates <i>PAN-LUG</i>™ aluminium compression lugs and splices for #6 AWG – 500 kcmil copper and aluminium code conductor (not UL or CSA).</p> <p>Specifications: Output: 6.3 tonnes Jaw opening: 37.08mm Weight: 4.77kg Length: 330mm Height: 304.8mm Width: 16.2mm Handle span: 381mm (open), 146.05mm (closed) Warranty: 5 years</p> <p>CT-980 includes:</p> <ul style="list-style-type: none"> • Tool • Plastic tool case 	1



Ring Terminal Nylon Insulated

- Metal insulation grip sleeve for high vibration or conductor strain environments
- Colour-coded insulation sleeve identifies wire range by using industry standard colours. Provides quick visual identification of intended range of wires



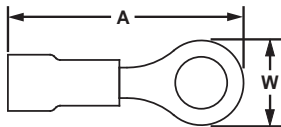
Part Number	Wire Range	Colour	Stud Size mm	Length (A)	Width (W)	Std. Pkg. Qty.	Std. Ctn. Qty.
				mm	mm		
PN18-12R-C	22-18 AWG	Red	12.7mm	34.3	18.3	100	500
PN14-12R-L	16-14 AWG	Blue	12.7mm	34.3	18.3	50	500
PN10-10R-L	12-10 AWG	Yellow	#10	27.4	9.7	50	500
PN10-14R-L	12-10 AWG	Yellow	6.35mm	31.2	13.2	50	500
PN10-56R-L	12-10 AWG	Yellow	7.9mm	31.2	13.2	50	500
PN10-38R-L	12-10 AWG	Yellow	9.5mm	33.3	14.7	50	500
PN10-12R-L	12-10 AWG	Yellow	12.7mm	37.3	18.3	50	500

The following installation tools may be used: CT-100, CT-600, CT-1550 and CT-1551. CT-1550 and CT-1551 can be found on page 29.



Ring Terminal Nylon Insulated - Expanded Insulation

- Expanded wire entry allows for large O.D. wire insulation or multiple wire crimps within one wire barrel
- Metal insulation grip sleeve for high vibration or conductor strain environments
- Colour-coded insulation sleeve identifies wire range by using industry standard colours. Provides quick visual identification of intended range of wires
- Colour: Yellow



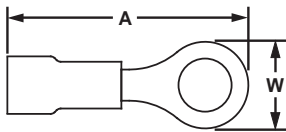
Part Number	Wire Range	Stud Size mm	Length (A)	Width (W)	Std. Pkg. Qty.	Std. Ctn. Qty.
			mm	mm		
PN10-10RX-L	12-10 AWG	#10	28.7	9.40	50	500
PN10-14RX-L	12-10 AWG	6.35mm	32.3	13.2	50	500
PN10-56RX-L	12-10 AWG	7.9mm	32.3	13.2	50	500
PN10-38RX-L	12-10 AWG	9.5mm	34.3	14.7	50	500

The following installation tool may be used: CT-100 only.



Ring Terminal Vinyl Insulated - Funnel Entry

- Funnel entry speeds wire insertion for faster assembly and lower installed costs
- Insulation support provides strain relief of the terminal and helps to prevent wire damage if wire is subject to a bending application
- Industry standard colour coding to indicate wire range
- Brazed seam assures a reliable crimp



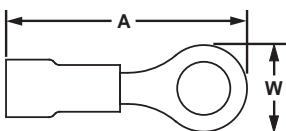
Part Number	Wire Range	Colour	Stud Size mm	Length (A)	Width (W)	Std. Pkg. Qty.	Std. Ctn. Qty.
				mm	mm		
PV18-12R-C	22-18 AWG	Red	12.7mm	36.1	18.3	100	500
PV14-12R-L	16-14 AWG	Blue	12.7mm	36.1	18.3	50	500
PV10-10R-L	12-10 AWG	Yellow	#10	26.7	7.87	50	500
PV10-14R-L	12-10 AWG	Yellow	6.35mm	31.2	13.2	50	500
PV10-56R-L	12-10 AWG	Yellow	7.9mm	31.2	13.2	50	500
PV10-38R-L	12-10 AWG	Yellow	9.5mm	33.3	14.7	50	500
PV10-12R-L	12-10 AWG	Yellow	12.7mm	37.1	18.3	50	500

The following installation tools may be used: CT-100, CT-600, CT-1550 and CT-1551. CT-1550 and CT-1551 can be found on page 29.



Ring Terminal Vinyl Insulated - Expanded Insulation

- Expanded wire entry allows for large O.D. wire insulation or multiple wire crimps within one wire barrel
- Industry standard colour coding to indicate wire range
- Brazed seam assures a reliable crimp
- Insulation support
- Colour: Yellow



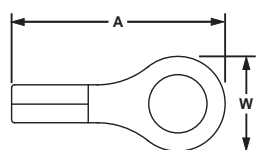
Part Number	Wire Range	Stud Size mm	Length (A)	Width (W)	Std. Pkg. Qty.	Std. Ctn. Qty.
			mm	mm		
PV10-10RX-L	12-10 AWG	#10	27.9	7.90	50	500
PV10-14RX-L	12-10 AWG	6.35mm	32.8	13.2	50	500
PV10-56RX-L	12-10 AWG	7.9mm	32.8	13.2	50	500
PV10-38RX-L	12-10 AWG	9.5mm	35.3	14.7	50	500

The following installation tool may be used: CT-100 only.



Ring Terminal Non-Insulated

- Brazed seam assures a reliable crimp
- Internally bevelled for easy wire insertion
- Extended length is easier to crimp and assures good quality wire contact



Part Number	Wire Range	Stud Size	Length (A)	Width (W)	Std. Pkg. Qty.	Std. Ctn. Qty.
			mm	mm		
P18-12R-C	22-18 AWG	12.7mm	30.5	18.3	100	1000
P14-12R-L	16-14 AWG	12.7mm	30.5	18.3	50	500
P10-10R-L	12-10 AWG	#10	20.6	9.70	50	500
P10-14R-L	12-10 AWG	6.35mm	24.4	13.2	50	500
P10-56R-L	12-10 AWG	7.9mm	24.4	13.2	50	500
P10-38R-L	12-10 AWG	9.5mm	26.4	14.7	50	500
P10-12R-L	12-10 AWG	12.7mm	30.5	18.3	50	500

The following installation tools may be used: CT-100, CT-200, CT-600 and CT-1570. CT-1570 can be found on page 29.

No. of Strands

Common Conductor Sizes and Strandings Reference Chart

Conductor		Individual Strands			Overall Conductor Size		
AWG	Metric mm ²	Diameter		Diameter		Area	
		No. of Strands	mm	In.	mm	In.	Circ. MILS
	0.05	25	.05	.002	.25	.010	97
	0.06	41	.05	.002	.36	.014	159
26		10	.13	.005	.53	.021	250
		1	.41	.016	.41	.016	256
		7	.16	.006	.48	.019	278
		19	.10	.004	.51	.020	304
24		41	.08	.003	.58	.023	384
		10	.16	.006	.58	.023	397
		1	.51	.020	.51	.020	400
		7	.20	.008	.61	.024	448
	0.25	19	.13	.005	.61	.024	475
		65	.07	.003	.65	.026	484
		128	.05	.002	.65	.026	496
		32	.10	.004	.65	.026	496
		14	.16	.006	.65	.026	556
		1	.64	.025	.64	.025	625
		16	.16	.006	.76	.030	635
		26	.13	.005	.76	.030	650
22		7	.25	.010	.76	.030	700
		19	.16	.006	.79	.031	754
		48	.10	.004	.80	.031	744
		194	.05	.002	.80	.031	752
	0.38	100	.07	.003	.80	.031	760
		7	.27	.011	.80	.031	791
		12	.21	.008	.80	.031	820
		21	.16	.006	.80	.031	833
	0.5	7	.30	.012	.90	.035	977
		16	.20	.008	.90	.035	992
		1	.80	.031	.80	.031	992
20		*10	.25	.010	.89	.035	1000
		1	.81	.032	.81	.032	1024
		41	.13	.005	.91	.036	1025
		26	.16	.006	.91	.036	1032
		*7	.32	.013	.97	.038	1111
	0.75	19	.20	.008	.94	.037	1216
		7	.37	.015	1.10	.043	1485
		24	.20	.008	1.20	.047	1488
18		1	1.00	.039	1.00	.039	1550
		*16	.25	.010	1.19	.047	1600
		1	1.02	.040	1.02	.040	1600
		65	.13	.005	1.19	.047	1625
		41	.16	.006	1.19	.047	1627
		*7	.40	.016	1.22	.048	1770
		19	.25	.010	1.24	.049	1900

Conductor		Individual Strands			Overall Conductor Size		
AWG	Metric mm ²	Diameter		Diameter		Area	
		No. of Strands	mm	In.	mm	In.	Circ. MILS
	1.0	19	.25	.010	1.30	.051	1841
		1	1.13	.044	1.13	.044	1979
		32	.20	.008	1.30	.051	1984
		7	.43	.017	1.30	.051	2006
16		19	.29	.011	1.47	.058	2426
		65	.16	.006	1.50	.059	2580
		*26	.25	.010	1.50	.059	2600
		1	1.30	.051	1.30	.051	2601
		105	.13	.005	1.50	.059	2625
	1.5	*7	.51	.020	1.52	.060	2828
		30	.25	.010	1.70	.067	2906
		21	.30	.012	1.60	.063	2930
		189	.10	.004	1.90	.075	2930
		7	.52	.020	1.60	.063	2934
14		1	1.38	.054	1.38	.054	2952
		45	.16	.006	1.85	.073	3786
		19	.36	.014	1.85	.073	3831
		1	1.63	.064	1.63	.064	4096
		*41	.25	.010	1.85	.073	4100
	2.5	*7	.64	.025	1.85	.073	4481
		50	.25	.010	2.20	.087	4844
		7	.67	.026	2.10	.083	4871
		35	.30	.012	2.20	.087	4883
		315	.10	.004	2.20	.087	4883
12		1	1.78	.070	1.78	.070	4911
		19	.45	.018	2.36	.093	6088
		*65	.25	.010	2.41	.095	6500
		165	.16	.006	2.41	.095	6549
	4.0	1	2.06	.081	2.06	.081	6561
		*7	.81	0.32	2.44	.096	7168
		56	.30	.012	3.10	.122	7812
		1	2.26	.089	2.26	.089	7917
10		511	.10	.004	3.00	.118	7921
		19	.52	.020	2.70	.106	7963
		37	.40	.016	2.92	.115	9354
		49	.36	.014	2.95	.116	9880
		*7	.98	.039	2.95	.116	10376
	6.0	1	2.59	.102	2.59	.102	10404
		*105	.25	.010	2.95	.116	10500
		84	.30	.012	3.50	.138	11718
		756	.10	.004	3.70	.146	11718
		1	2.76	.109	2.76	.109	11807
		7	1.05	0.41	3.20	.126	11962
		19	.64	0.25	3.30	.130	12063

AWG to Metric Wire Crosses	
AWG	Metric (mm ²)
26-22	0.1-0.5
22-18	0.5-1.0
16-24	1.5-2.5
12-10	4.0-6.0

This chart details the different conductors commonly used in the industry. For each size, either AWG or Metric, various stranding options are listed. Typically the higher stranding is used in applications requiring greater conductor flexibility.

Common Conductor Sizes and Strandings Reference Chart (continued)








































































Conductor		Individual Strands			Overall Conductor Size		
AWG	Metric mm ²	No. of Strands	Diameter		Diameter		Area
			mm	In.	mm	In.	Circ. MILS
	6	7	.107	.042	3.21	.126	11840
		1	2.77	.109	2.77	.109	11840
9		7	1.1	.0432	3.3	.13	13000
		1	2.91	.1144	2.91	.114	13090
8		1	3.26	.1285	3.25	.128	16510
		7	1.23	.0486	3.7	.146	16510
	10	7	1.37	.054	4.12	.162	19740
		1	3.58	.141	3.58	.141	19740
7		7	1.38	.0545	4.15	.164	20520
		1	3.67	.1443	3.67	.144	20520
6		7	1.55	.0612	4.66	.184	26240
		1	4.11	.162	4.11	.162	26240
	16	7	1.73	.008	5.13	.204	31580
5		7	1.75	.0688	5.24	.206	33090
4		7	1.96	.0772	5.88	.232	41740
	25	7	2.16	.085	6.48	.255	49340
		19	1.32	.052	6.6	.026	49340
3		7	2.2	.0867	6.61	.026	52620
2		7	2.47	.0974	7.42	.292	66300
	35	7	2.54	.1	7.62	.300	69070
		19	1.55	.001	7.75	.305	69070
1		19	1.5	.0064	8.43	.332	83690
	50	19	1.85	.073	9.27	.365	98680
1/0		19	1.59	.0745	9.46	.373	105000
2/0		19	2.13	.0837	10.6	.419	133100
	70	19	2.18	.086	10.9	.43	138100
3/0		19	2.59	.094	11.9	.47	167800
		36	1.71	.0673	12	.471	167800

Conductor		Individual Strands			Overall Conductor Size		
AWG	Metric mm ²	No. of Strands	Diameter		Diameter		Area
			mm	In.	mm	In.	Circ. MILS
	95	19	2.57	.101	12.8	.505	187500
		37	1.83	.072	12.5	.504	187500
4/0		19	2.89	.1055	13.4	.528	211600
	120	37	2.06	.081	14.4	.567	237.8 kcmil
250 kcmil		37	2.07	.0822	14.6	.575	250 kcmil
300 kcmil	150	37	2.29	.09	16	.63	300 kcmil
350 kcmil		37	2.47	.0973	17.3	.681	350 kcmil
	185	37	2.54	1	17.8	.7	365.1 kcmil
400 kcmil		37	2.64	.104	18.5	.728	400 kcmil
	240	37	2.9	.114	20.3	.798	473.6 kcmil
		61	2.26	.089	20.3	.801	473.6 kcmil
500 kcmil		37	2.95	.1162	20.7	.813	500 kcmil
		61	2.3	.0905	20.7	.814	500 kcmil
	300	61	2.51	.099	22.6	.891	592.1 kcmil
600 kcmil		61	2.52	.0992	22.7	.893	600 kcmil
700 kcmil		61	2.72	.1071	24.5	.964	700 kcmil
750 kcmil		61	2.82	.1109	25.4	.998	750 kcmil
		91	2.31	.0908	25.4	.998	750 kcmil
	400	61	2.9	.114	26.1	1.026	798.4 kcmil
800 kcmil		61	2.91	.1145	26.2	1.031	800 kcmil
		91	2.38	.0938	26.2	1.032	800 kcmil
1000 kcmil	500	61	3.25	.128	28.3	1.152	986.8 kcmil
		91	2.66	.1048	29.3	1.153	1000 kcmil
	625	91	2.97	.117	32.7	1.287	1233.7 kcmil











AWG to Metric Wire Crosses	
AWG	Metric (mm ²)
26-22	0.1-0.5
22-18	0.5-1.0
16-24	1.5-2.5
12-10	4.0-6.0






This chart details the different conductors commonly used in the industry. For each size, either AWG or Metric, various stranding options are listed. Typically the higher stranding is used in applications requiring greater conductor flexibility.

Equivalent Tables Decimal/Inches/Millimeters

		.0156	0,396			.2656	6,746			.5156	13,100			.7656	19,446
		0.312	0,792			.2968	7,541			.5468	13,891			.7968	20,241
		.0625	1,588			.3125	7,938			.5625	14,288			.8125	20,637
		.0937	2,380			.3281	8,337			.5781	14,684			.8281	21,034
		.125	3,175			.3437	8,730			.5937	15,080			.8593	21,828
		.1562	3,968			.375	9,525			.6093	15,479			.875	22,225
		.1875	4,763			.4062	10,317			.625	15,875			.8906	22,620
		.2187	5,555			.4218	10,716			.6406	16,271			.9062	23,017
		.2343	5,954			.4375	11,113			.6718	17,066			.9218	23,416
		.25	6,350			.4531	11,509			.7031	17,859			.9531	24,208
						.4687	11,905			.7187	18,255			.9687	24,605
						.4843	12,304			.7343	18,654			.9843	25,001
						.5	12,700			.75	19,050			1.	25,400

Stud Size Chart (Inches)

										
Standard Stud Size	#2	#4	#5	#6	#8	#10	1/4"	5/16"	3/8"	7/16"
Stud Size Decimal Equivalent	.086"	.112"	.127"	.138"	.164"	.190"	.250"	.312"	.375"	.438"
Terminal Hole Diameter	.090"	.118"	.127"	.146"	.173"	.204"	.270"	.343"	.392" ^{**} .406" ^{**}	.456"
Stud Size Designation in PANDUIT™ Part Number	2	4	5	6	8	10	14	56	38	76

					
Standard Stud Size	1/2"	5/8"	3/4"	7/8"	1"
Stud Size Decimal Equivalent	.500"	.625"	.750"	.875"	1.00"
Terminal Hole Diameter	.531"	.656"	.810"	.906"	1.031"
Stud Size Designation in PANDUIT™ Part Number	12	58	34	78	1

*Terminal Stud.

**Power Connector Stud.

FIBERRUNNER™ ROUTING SYSTEMS

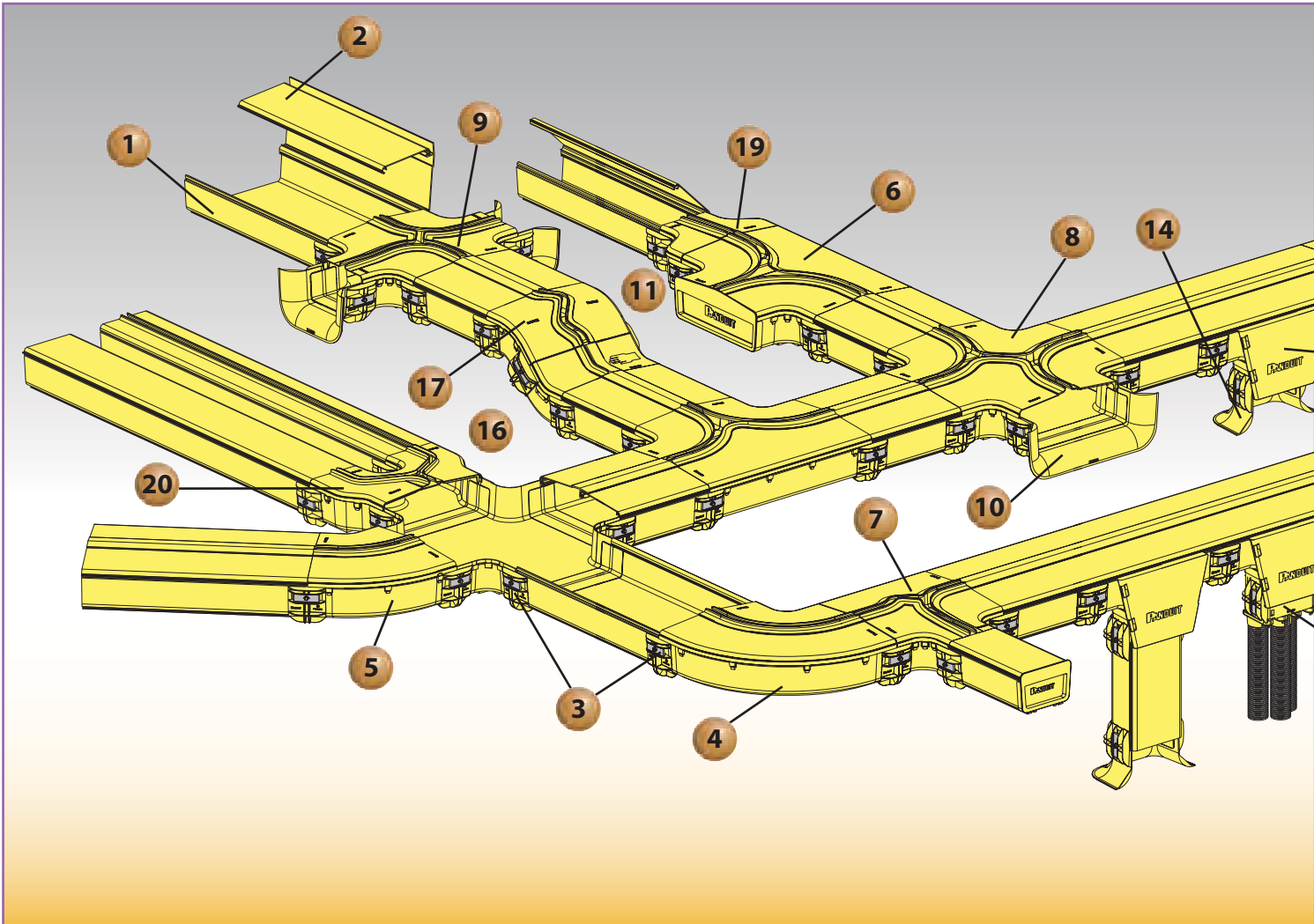
The PANDUIT™ Network Connectivity Group provides innovative solutions for routing fibre optic and high performance copper cabling to and between equipment racks within a telecommunications room or service provider facility. Routing products such as the FIBERRUNNER™ Routing System are critical factors in your ability to quickly install, easily implement moves, adds and changes and maintain the integrity of your fibre and copper cabling plant in order to maximise long-term performance.



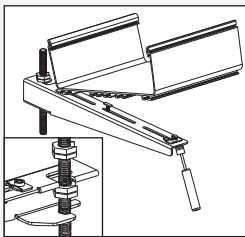
- Robust, large capacity 12x4 and 6x4 systems for use with large cable counts and 4x4 and 2x2 systems for use with smaller cable counts
- Hinged channel cover and split fitting covers protect cabling and provide access for future cabling revisions and additions
- No bolts need to be tightened and no tools are required when installing the QUIKLOCK™ coupler
- QUIKLOCK™ couplers and brackets take less than five seconds to make a mechanically secure connection
- QUIKLOCK™ brackets attach system components to ladder rack, strut, equipment racks, walls and raised floor pedestals
- Fittings provide minimum 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 FIBRE-DUCT™ 4x4 and 2x2 Routing Systems, cable management products and racks

The FIBERRUNNER™ 12x4, 6x4, 4x4 and 2x2 Routing Systems are comprised of channel, fittings and brackets designed to segregate, route and protect fibre optic and high performance copper cabling.

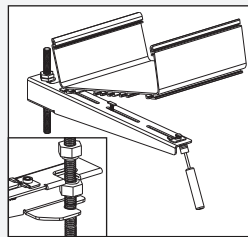
12x4 **FIBERRUNNER** Routing System Roadmap



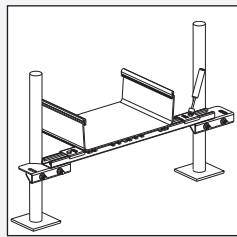
12x4 **FIBERRUNNER**™ Mounting Brackets



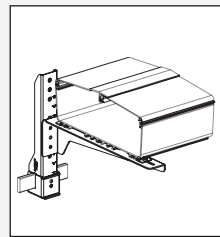
Existing Threaded Rod QUIKLOCK™ Bracket for 12x4 System



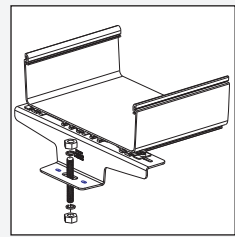
New Threaded Rod QUIKLOCK™ Bracket for 12x4 System



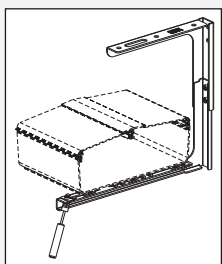
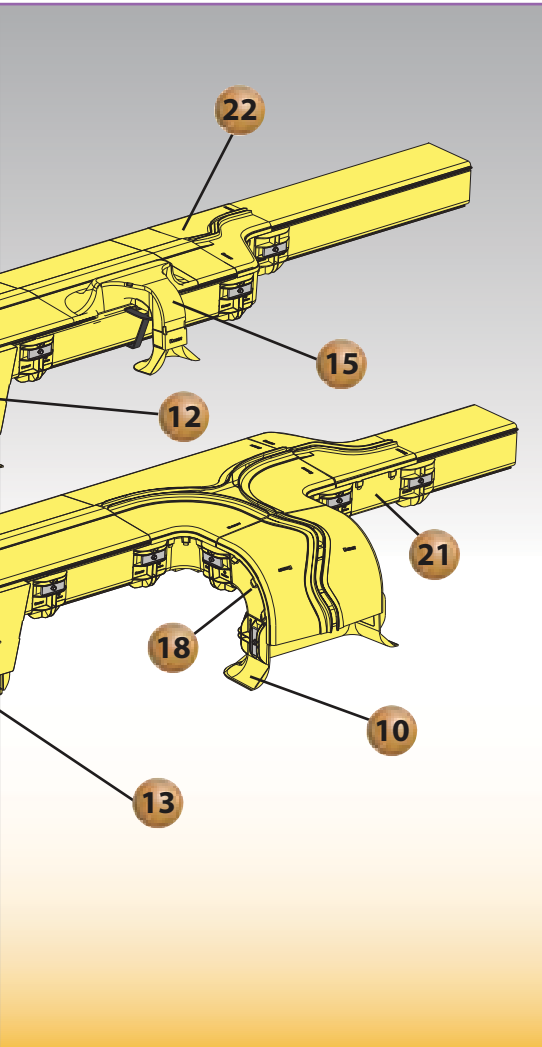
Under-Floor Pedestal QUIKLOCK™ Bracket for 12x4 System



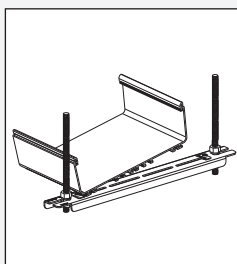
Adjustable Ladder QUIKLOCK™ Bracket for 12x4 System



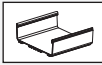






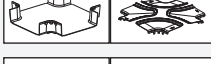

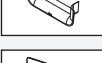
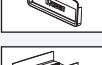


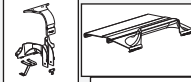

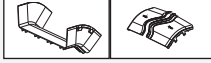





Centre Support QUIKLOCK™ Bracket for 12x4 System



Top Support Adjustable 'C' QUIKLOCK™ Bracket for 12x4 System



Trapeze QUIKLOCK™ Bracket for 12x4 System

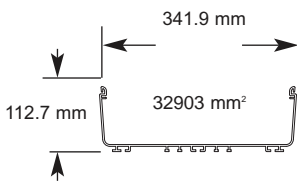
-  **1** 12x4 *FIBERRUNNER™* Channel (see page 198)
-  **2** 12x4 Snap-On Hinged Cover (see page 199)
-  **3** 12x4 *QUIKLOCK™* Coupler (see page 204-205)
-  **4** 12x4 Horizontal Right Angle Fitting and Optional Split Cover (see page 199)
-  **5** 12x4 Horizontal 45° Angle Fitting and Optional Split Cover (see page 199)
-  **6** 12x4 Horizontal Tee Fitting and Optional Split Cover (see page 199)
-  **7** 12x4 Horizontal Tee with 6x4 Exits and Optional Split Cover (see page 199)
-  **8** 12x4 Four Way Cross Fitting and Optional Split Cover (see page 200)
-  **9** 12x4 Four Way Cross Fitting with 6x4 Exits and Optional Split Cover (see page 200)
-  **10** 3-Sided BRC Trumpet Spillout for 12x4 Exit (see page 200)
-  **11** 12x4 End Cap Fitting (see page 201)
-  **12** 12x4 Vertical Tee Fitting (see page 201)
- 13** 3 Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing (see page 201)
-  **14** 3-Sided BRC Trumpet Spillout for 6x4 Exit (see page 201)
-  **15** Spill-Over Junction and Optional Cover for 12x4 System (see page 202)
-  **16** 12x4 Inside Vertical 45° Angle Fitting (see page 202)
-  **17** 12x4 Outside Vertical 45° Angle Fitting and Optional Split Cover (see page 202)
-  **18** 12x4 Outside Vertical Right Angle Fitting with Optional Split Cover (see page 202)
-  **19** Reducer from 12x4 to 6x4 *FIBERRUNNER™* Channel and Optional Split Cover (see page 203)
-  **20** Y-Reducer from 12x4 to two 6x4 Exits with Optional Split Cover (see page 203)
-  **21** 12x4 to 6x4 Transition Right Reducer Fitting and Optional Split Cover (see page 203)
-  **22** 12x4 to 6x4 Transition Left Reducer Fitting and Optional Split Cover (see page 203)

12x4 FIBERRUNNER™ Routing System

Cable Fills for FIBERRUNNER™ 12x4 Cable Routing System



FR12X4



The maximum amounts may vary according to the cable fill installation methods, straightness of cables, etc.

SPEC= 40% cablefill — the recommended design in cable capacity. Leaves room for future moves, adds and changes.

MAX= 60% cablefill — the maximum cable quantity based on cable interweaving and packing factors.

System Type	Area mm ²	Fibre Cable								Data Grade Cables	
		DIAMETER 1.6mm		DIAMETER 2.0mm		DIAMETER 3.0mm		DIAMETER 12.5mm		24 AWG UTP/CM CAT5e 4 pr	
		SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX
FIBERRUNNER™ 12x4 System	32903	6544	9816	4162	6243	1865	2798	107	161	552	827

Channel cutting instructions: For optimum results, use a plastic cutting saw blade for clean, burr-free cuts. Recommend: Carbide 80T or 100T; 2.29mm thickness, 3.2mm 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
- UL Listed
- Compatible with all sizes of PANDUIT™ FIBERRUNNER™ and PANDUIT FIBRE-DUCT™ routing systems, cable management products and racks
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS)



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 457mm. Black colour only.	10	100

For other colour replace suffix YL (Yellow) with OR (Orange) and BL (Black)
Order number of metres required, in multiples of standard increments.

Order number of cable retainers required, in multiples of Standard Package Quantity.

12x4 FIBERRUNNER™ QUIKLOCK™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation, bolts loosen for component disassembly



FRBC12X4

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
12x4 QuikLock Coupler			
FRBC12X4YL	Pre-assembled coupler quickly joins 2 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 other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

12x4 FIBERRUNNER™ System Fittings

- Minimum 50mm bend radius control fittings
- Protects against signal loss and performance degradation
- Fittings assemble using FRBC couplers
- Optional split covers snap onto each fitting
- Covers feature 19mm gap to allow cable to be laid in



FRRAS12X4



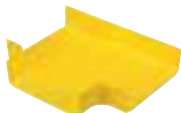
FRRASC12



FRH4512X4



FRH45SC12



FRT12X4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
12x4 Horizontal Right Angle Fitting				
FRRAS12X4YL	Attaches to 12x4 channel and/or fitting to create a 90° horizontal turn from a straight horizontal run. Accepts optional split cover FRRASC12YL.	(2 pcs.) FRBC12X4YL	1	0
Split Cover for 12x4 Horizontal Right Angle Fitting				
FRRASC12YL	Optional split cover for the horizontal right angle fitting FRRAS12X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 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	0
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 19mm opening for easy access to add or removes cables.	—	1	5
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	0

For other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

12x4 FIBERRUNNER™ System Fittings (continued)



FRTSC12



FRT12X4W6



FRTSC12W6



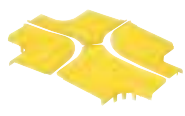
FRFWC12X4



FRFWCSC12



FRFWC12X4W6



FRFWCSC12W6



FRTR12X4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
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 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 with no tools required. Creates radiused 19mm opening for easy access to add or remove fibre 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 (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 (19mm) opening for easy access to add or remove cables.	—	1	5
3-Sided BRC Trumpet Spillout for 12x4 Exit				
FRTR12X4YL	Used to limit the bend of the fibre cable to 50.4mm when exiting from the 12x4 channel or a 12x4 horizontal tee fitting.	(1 pc.) FRBC12X4YL	1	5

For other colour replace suffix YL (Yellow) with OR (Orange).

12x4 FIBERRUNNER™ System Fittings (continued)



FREC12X4



FRVT12X4



FR1.5IDE



FRIDT6X4



FRTR6X4



FRSP



FRSP12C



FRSP4

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 Vertical Tee Fitting				
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 FRIDT6X4YL or FRTR6X4YL to vertical exit. Accepts optional snap-on cover FRHC12YL6 in conjunction with channel.	(2 pcs.) FRBC12X4YL (1 pc.) FRBC6X4YL	1	0
1 Port Spillout Side Exit to 38mm Inside Diameter Corrugated Tubing				
FR1.5IDEYL	Used to route cable into 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 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 Port Spillout to 38mm Inside Diameter Corrugated Tubing				
FRIDT6X4YL	Used to route cable into 3 separate pieces of 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
3-Sided BRC Trumpet Spillout for 6x4 Exit				
FRTR6X4YL	Used to limit the bend of the fibre cable to 50.8mm when exiting from 6x4 channel, 6x4 horizontal tee fitting, or 6x4 exit or 12x4 vertical tee.	(1 pc.) FRBC6X4YL	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	0
Spill-Over Junction Cover for 12x4 System				
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
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 vertical exit. Mounts directly to existing installation with no alteration required. Mounting hardware provided for secure attachment.	(1) FRBC4X4YL	1	0

For other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

12x4 FIBERRUNNER™ System Fittings (continued)



FRSP412C



FTR2X2



FIDT2X2

RFRIV4512.eps

FRIV4512X4



FROV4512X4



FROV45SC12



FROVRA12X4

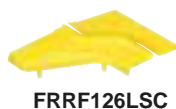


FROVRASC12

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
Spill-Over Junction Cover for 12x4 System				
FRSP412C	Used to fully enclose 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
3-Sided BRC Trumpet Spillover for 2x2 Exit				
FTR2X2YL	Used to limit the bend of the fibre cable to 50mm when exiting from a FIBERRUNNER™ spill-over fitting FRSPYL or from 2x2 FIBER-DUCT™ channel.	—	1	5
1-Port Spillover to 38mm Inside Diameter Corrugated Tubing				
FIDT2X2YL	Used to route cable into one piece of 38.1mm diameter split corrugated tubing. Used with FIBERRUNNER™ spill-over fitting 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	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 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 19mm opening for easy access to add or remove cables.	—	1	5

For other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

12x4 FIBERRUNNER™ System Fittings (continued)



Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
12x4 to 6x4 FIBERRUNNER™ Reducer Fitting				
FRRF126YL	Attaches any 12x4 FIBERRUNNER™ fitting or channel to any 6x4 FIBERRUNNER™ fitting or channel. Accepts split cover FRRF126SCYL.	(1 pc.) FRBC12X4YL (1 pc.) FRBC6X4YL	1	0
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 19mm opening for easy access to add or remove cables.	—	1	5
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	0
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 19mm opening for easy access to add or remove fibre 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	0
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 19mm opening for easy access to add or remove fibre 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.) FRBC12X5YL (1 pc.) FRBC6X4YL	1	0
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 radiused 19mm opening for easy access to add or remove cables.	—	1	5

For other colour replace YL (Yellow) with OR (Orange) or BL (Black)

12x4 FIBERRUNNER™ Mounting Brackets



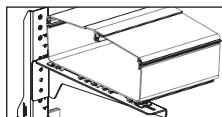
FR12TRBE58
FR12TRBE58M



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 11.1mm nut driver on slide clamps.	5/8"	1	0
FR12TRBE58M		16 mm	1	0
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" = 11.1mm nut driver on slide clamps.	5/8"	1	0
FR12TRBN58M		16 mm	1	0
Under-Floor Pedestal QUIKLOCK™ Bracket for 12x4 System				
FR12USB	Used to support the 12x4 system by attaching to under-floor pedestals. (Contains all necessary hardware.) Use on pedestals up to 50.8mm diameter. The pre-assembled slide clamps enable fast assembly to channel. Use 11.1mm nut driver on slide clamps.	—	1	0
Adjustable Ladder QUIKLOCK™ Bracket for 12x4 System				
FR12ALB	Used to support the 12x4 system attaching to any 9.5mm x 38.1mm or 9.5mm x 50.8mm ladder rack rail. Adjustable to 9 incremental positions from 101mm to 304mm above or below the ladder rack. No threaded rod required. The pre-assembled slide clamps enable fast assembly to channel. Use 11.1mm nut driver on slide clamps.	—	1	0
centre 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 11.1mm nut driver on slide clamps. Also can be secured directly to the top of cabinets.	1/2"	1	0
FR12CS58		1/8"	1	0
FR12CS12M		12 mm	1	0
FR12CS58M		16 mm	1	0
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 11.1mm nut driver on slide clamps.	1/2"	1	0
FR12ACB58		5/8"	1	0
FR12ACB12M		12 mm	1	0
FR12ACB58M		16 mm	1	0
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 11.1mm nut driver on slide clamps.	1/2"	1	0
FR12TB58		5/8"	1	0
FR12TB12M		12 mm	1	0
FR12TB58M		16 mm	1	0

12x4 FIBERRUNNER™ Mounting Brackets (continued)



FEIAB58



F2PCLB12
F2PCLB58
F2PCLB12M
F2PCLB58M



FR12BS-L



FLB12X15
FLB58X15
FLB12X20
FLB58X20



FRSTRCLIP



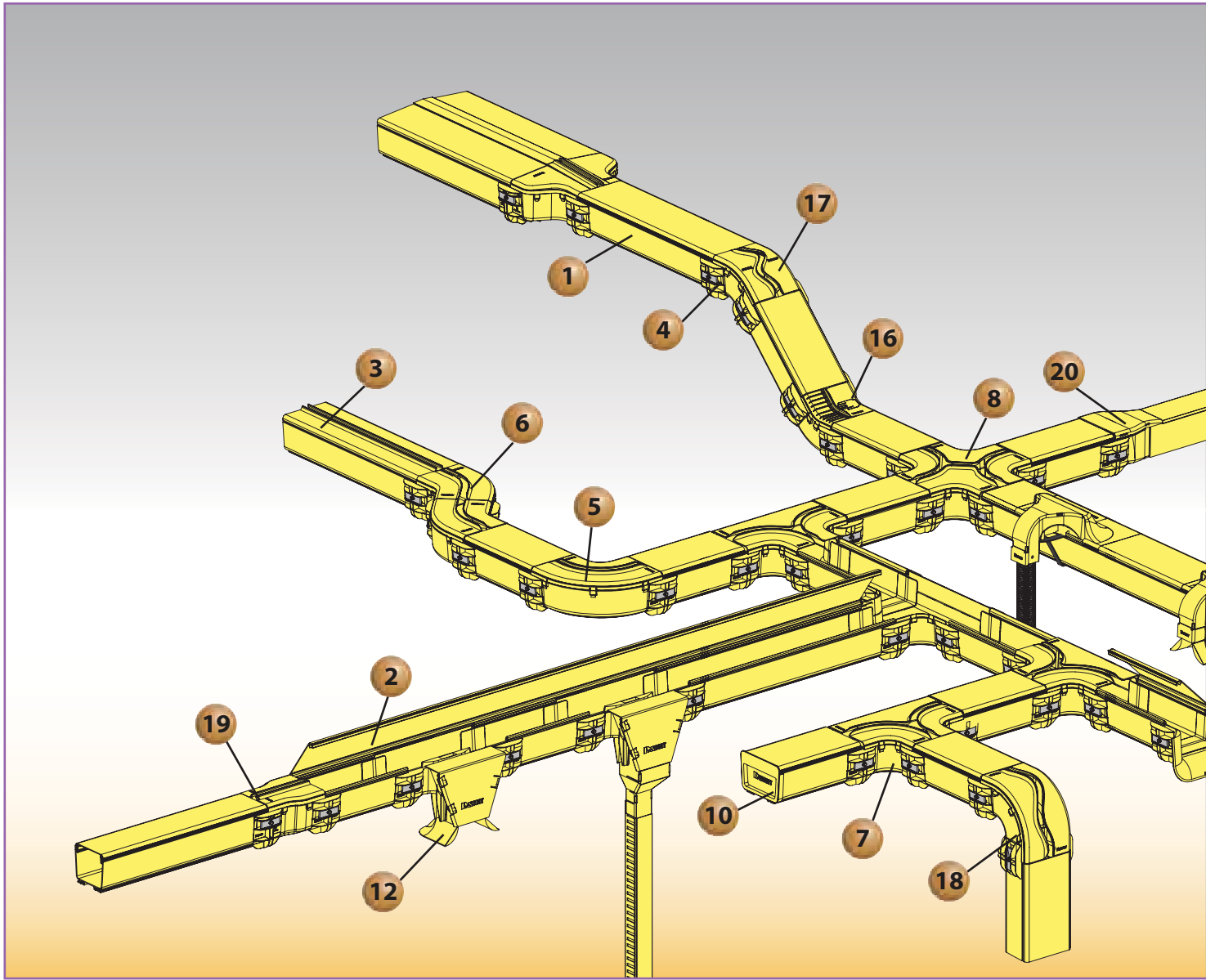
FRSLNKT12
FRSLNKT58
FRSLNKT12M
FRSLNKT58M



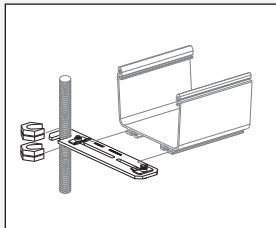
FRTBKT-X

Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
EIA/TIA Threaded Rod Mounting Bracket				
FEIAB58	Bracket consists of two identical components that clamp onto the crossmembers of standard EIA/TIA racks and are secured with standard hex nuts and split lockwashers (included) tightened onto a length of 5/8 diameter threaded rod (not included). The threaded rod is positioned in the centre of the brackets providing a vertical threaded rod stud to mount <i>FIBERRUNNER™</i> and <i>FIBER-DUCT™</i> threaded rod mounting brackets onto.	5/8"	1	10
Two Piece Ladder Rack Bracket for Attaching Threaded Rod to 38.1mm - 50.8mm Ladder Rack				
F2PCLB12	Two piece bracket attaches to 9.5mm wide x 38.1mm or 9.5mm wide by 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
F2PCLB12M		12 mm	1	10
F2PCLB58M		16 mm	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 FRF126LYL.	—	50	500
Bracket for Attaching Threaded Rod to 38.1mm Ladder Rack				
FLB12X15	Bracket attaches to 9.5mm x 38.1mm ladder rack rail. Bracket accepts threaded rod (not included). Contains bracket and hardware for attaching bracket to ladder rack.	1/2"	1	10
FLB58X15		5/8"	1	10
Bracket for Attaching Threaded Rod to 50.8mm Ladder Rack				
FLB12X20	Bracket attaches to 9.5mm wide x 50.8mm ladder rack rail. Bracket accepts threaded rod (not included). Contains bracket and hardware for attaching bracket to ladder rack.	1/2"	1	10
FLB58X20		5/8"	1	10
Strut Clip Kit				
FRSTRCLIP	Strut mounting clip assembly allows <i>FIBERRUNNER™</i> channel to be attached directly to standard 41.3mm wide strut structures. Contains all hardware for assembly. Bolts release with 11.1mm nut driver.	—	1	10
Split Locking Nut Kit				
FRSLNKT12	Used to secure <i>FIBERRUNNER™</i> mounting brackets anywhere along pre-installed threaded rod. Split nuts are opened, placed in desired position, closed and tightened.	1/2"	1	10
FRSLNKT58		5/8"	1	10
FRSLNKT12M		12 mm	1	10
FRSLNKT58M		16 mm	1	10
1/4 T-Bolt Kit				
FRTBKT-X	T-bolts can be used for additional attachment when securing <i>FIBERRUNNER™</i> channel to mounting brackets. For example, a T-bolt can be inserted through a 12x4 mounting bracket and positioned within the centre 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

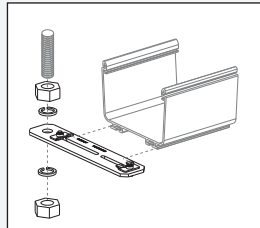
6x4 **FIBER RUNNER** Routing System Roadmap



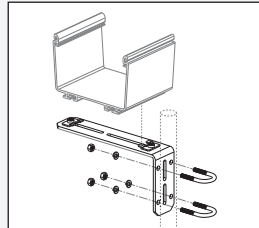
4x4 and 6x4 **FIBER RUNNER** Mounting Brackets



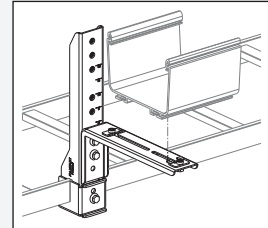
Existing Threaded Rod
QUIKLOCK™ Bracket for
6x4 and 4x4 Systems



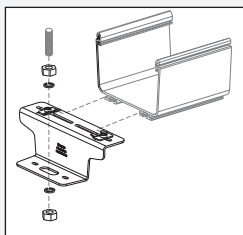
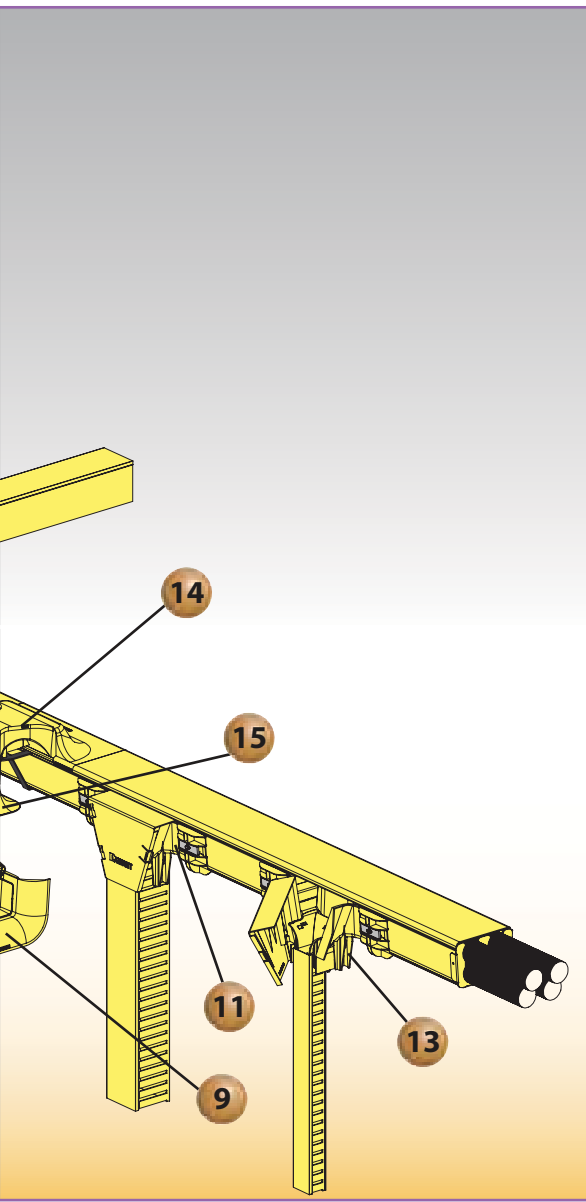
New Threaded Rod
QUIKLOCK™ Bracket for
6x4 and 4x4 Systems



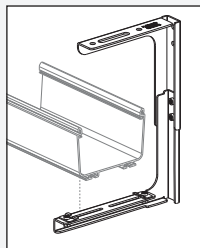
Under-Floor Pedestal
QUIKLOCK™ Bracket for
6x4 and 4x4 Systems




Adjustable Ladder
QUIKLOCK™ Bracket for
6x4 and 4x4 Systems



**Centre Support
QUIKLOCK™ Bracket for
6x4 and 4x4 Systems**



**Top Support
Adjustable 'C'
QUIKLOCK™ Bracket
for 6x4 and
4x4 Systems**

- | | |
|---|--|
|  | 1 6x4 <i>FIBERRUNNER</i> ™ Channel (see page 208) |
|  | 2 6x4 Snap-On Hinged Cover (see page 208) |
|  | 3 6x4 Split Hinged Cover (see page 208) |
|  | 4 6x4 <i>QUIKLOCK</i> ™ Coupler (see page 209) |
|  | 5 6x4 Horizontal Right Angle Fitting and Optional Split Cover (see page 209) |
|  | 6 6x4 Horizontal 45° Angle Fitting and Optional Split Cover (see page 209) |
|  | 7 6x4 Horizontal Tee Fitting and Optional Split Cover (see page 209) |
|  | 8 6x4 Four Way Cross Fitting and Optional Split Cover (see page 210) |
|  | 9 3-Sided BRC Trumpet Spillout for 6x4 Exit (see page 210) |
|  | 10 6x4 End Cap Fitting (see page 210) |
|  | 11 6x4 <i>QUIKLOCK</i> ™ Vertical Tee Fitting (see page 210) |
|  | 12 3-Sided Vertical Tee Trumpet Spillout (see page 210) |
|  | 13 Low Profile Reducer 4x4 to 2x2 for Vertical Tee (see page 210) |
|  | 14 Spill-Over Junction and Optional Cover for 6x4 System (see page 211) |
|  | 15 3-Sided BRC Trumpet Spillout for 2x2 Exit (see page 211) |
|  | 16 6x4 Inside Vertical 45° Angle Fitting (see page 211) |
|  | 17 6x4 Outside Vertical 45° Angle Fitting and Optional Split Cover (see page 211) |
|  | 18 6x4 Outside Vertical Right Angle Fitting and Optional Split Cover (see page 212) |
|  | 19 6x4 to 4x4 <i>FIBERRUNNER</i> ™ Reducer Fitting and Optional Split Cover (see page 212) |
|  | 20 6x4 <i>FIBERRUNNER</i> ™ Fitting to 4x4 <i>FIBER-DUCT</i> ™ Channel Reducer Fitting (see page 212) |

NOTE: Additional 6x4 and 4x4 bracket applications, see pages 142-143

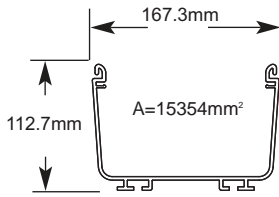
6x4 FIBERRUNNER™ Routing System

Cable Fills for FIBERRUNNER™ 6x4 Cable Routing System



The maximum amounts may vary according to the cable fill installation methods, straightness of cables, etc.

SPEC= 40% cablefill — the recommended design in cable capacity. Leaves room for future moves, adds and changes.



System Type	Area mm²	Fibre Cable								Data Grade Cables	
		DIAMETER		DIAMETER		DIAMETER		DIAMETER		24 AWG UTP/CM CAT5e 4 pr	
		1.6mm	2.0mm	3.0mm	12.5mm	5.5mm					
		SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX
FIBERRUNNER™ 6x4 System	15354	3054	4581	1942	2913	871	1306	50	75	257	386

Channel cutting instructions: For optimum results, use FRCUT Miter box and saw. For larger quantities use a plastic cutting saw blade for clean, burr-free cuts. Recommend: Carbide 80T or 100T; 2.29mm thickness, 3.2 mm.

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
- UL Listed
- Compatible with all sizes of PANDUIT™ FIBERRUNNER™ and PANDUIT Fibre-Duct routing systems, cable management products and racks
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS)



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 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 457mm. Black colour only.	10	100

For other colour replace YL (Yellow) with OR (Orange) or BL (Black)
Order length required, in standard length increments.

Order number of cable retainers required, in multiples of Standard Package Quantity.

6x4 FIBERRUNNER™ QUIKLOCK™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation, bolts loosen for component disassembly



FRBC6X4

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FRBC6X4YL	Pre-assembled coupler quickly joins 2 sections of channel and/or fittings. Mechanically attaches without tightening bolts. Bolts release using 9.5mm nut driver to allow coupler to be removed if necessary.	1	5

For other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

6x4 FIBERRUNNER™ System Fittings

- Minimum 50.8mm bend radius control fittings
- Protects against signal loss and performance degradation
- Fittings assemble using FRBC couplers
- Optional split covers snap onto each fitting
- Covers feature 19mm gap to allow cable to be laid in



FRR6X4



FRRASC6



FRH456X4



FRH45SC6



FRT6X4



FRTSC6

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
6x4 Horizontal Right Angle Fitting				
FRR6X4YL	Attaches to 6x4 channel base 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 FRR6X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 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 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 straight horizontal runs. 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 19mm opening for easy access to add or remove cables.	—	1	5

For other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

6x4 FIBERRUNNER™ System Fittings (continued)



FRFWC6X4



FRFWCSC6YL



FRTR6X4YL



FREC6X4YL



FRVT6X4YL



FR1.5IDEYL



FIDT4X4BL



FTR4X4YL



FRLPR42BL

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 19mm opening for easy access to add or remove cables.	—	1	5
3-Sided BRC Trumpet Spillover for 6x4 Exit				
FRTR6X4YL	Used to limit the bend of the fibre cable to 50.8mm when exiting from 6x4 channel, 6x4 horizontal tee fitting, or 6x4 exit or 12x4 vertical tee.	(1 pc.) FRBC6X4YL	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 QuikLock Vertical Tee Fitting				
FRVT6X4YL	Attaches to 6x4 channel and/or fittings to create a 90° vertical drop from a straight horizontal run. Hinged door included. Accepts FIDT4X4BL, FTR4X4YL, S4X4YL6, E4X4YL6 directly. Accepts optional snap-on cover FRHC6YL6 in conjunction with channel.	(2 pcs.) FRBC6X4YL	1	5
1 Port Spillover Side Exit to 38mm Inside Diameter Corrugated Tubing				
FR1.5IDEYL	Used to route cable into 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 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
2-Port Spillover to 38mm Inside Diameter Corrugated Tubing				
FIDT4X4BL	Used to route cable into one or two pieces of 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 colour only.	—	1	5
3-Sided Vertical Tee Trumpet Spillover				
FTR4X4YL	Used to limit the bend radius of the cable to 50.8mm when exiting from a 4x4 or 6x4 FIBERRUNNER™ vertical tee fitting and 4x4 FIBER-DUCT™ fittings.	—	1	5
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 FIBER-DUCT™ channel with minimal space required. No tools required for assembly. Black colour only.	—	1	5

For other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

6x4 FIBERRUNNER™ System Fittings (continued)



FRDDS6X4



FRDDSHC6



FRSP



FRSP6C



FRSP4



FRSP46C



FTR2X2



FIDT2X2



FRIV456X4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
6x4 Dual Downspout Fitting				
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 50.8mm 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 Fitting				
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
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	—
Spill-Over Junction Cover for 6x4 System				
FRSP6CYL	Used to fully enclose 6x4 channel in conjunction with the spill-over junction FRSPYL. Cover snaps on to the channel base. Hinged feature allows easy access to add or remove cables.	—	1	5
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 vertical exit. Mounts directly to existing installation with no alteration required. Mounting hardware provided for secure attachment.	(1) FRBC4X4YL	1	—
Spill-Over Junction Cover for 6x4 System				
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
3-Sided BRC Trumpet Spillover for 2x2 Exit				
FTR2X2YL	Used to limit the bend of the fibre cable to 50mm when exiting from a FIBERRUNNER™ spill-over fitting FRSPYL or from 2x2 FIBER-DUCT™ channel.	—	1	5
1-Port Spillover to 38mm Inside Diameter Corrugated Tubing				
FIDT2X2YL	Used to route cable into one piece of 38.1mm diameter split corrugated tubing. Used with FIBERRUNNER™ spill-over fitting FRSPYL, 2x2 Fibre-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	5
6x4 Inside Vertical 45° Angle Fitting				
FRIV456X4YL	Attaches to 6x4 channel and/or fitting 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

For other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

6x4 FIBERRUNNER™ System Fittings (continued)



FROV456X4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
6x4 Outside Vertical 45° Angle Fitting				
FROV456X4YL	Attaches to 6x4 channel and/or fitting 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



FROV45SC6

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 19mm opening for easy access to add or remove cables.	—	1	5



FROVRA6X4

6x4 Outside Vertical Right Angle Fitting				
FROVRA6X4YL	Attaches to 6x4 channel and/or fittings to create a 90° vertical turn from a straight horizontal run. Accepts optional split cover FROVRASC6YL.	(2 pcs.) FRBC6X4YL	1	5



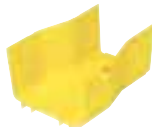
FROVRASC6

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 19mm opening for easy access to add or remove fibre cables.	—	1	5



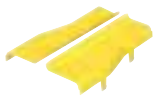
FRUPS6X4

6x4 Up Spout Fitting				
FRUPS6X4YL	Allows cable to be directed upward out of the channel deployed directly below racks and cabinets in underfloor installations. Snaps directly onto the channel and can be positioned to allow cables to be laid in. 25.4mm top bezel included. Other fittings can be installed for specific applications including FTR4X4YL and FIDT4X4BL.	—	1	5



FRRF6FR4

6x4 to 4x4 FIBERRUNNER™ Reducer Fitting				
FRRF6FR4YL	Attaches any 6x4 FIBERRUNNER™ fitting to channel to any 4x4 FIBERRUNNER™ fitting or channel. Accepts split cover FRRF6FR4SCYL.	(1 pc.) FRBC6X4YL (1 pc.) FRBC4X4YL	1	5



FRRF6FR4SC

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 19mm opening for easy access to add or remove cables.	—	1	5



FRRF64

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



FITF6X4

Innerduct Transition Fitting				
FITF6X4	Metal fitting attaches to end of channel or fitting to transition up to four pieces of 38mm inside diameter inner duct. Hardware is included for installation. Black colour only.	—	1	10

For other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

4x4 and 6x4 FIBERRUNNER™ Mounting Brackets



FR6TRBE12
FR6TRBE58
FR6TRBE12M
R6TRBE58M



FR6TRBN12
FR6TRBN58
FR6TRBN12M
FR6TRBN58M



FR6USB



FR6ALB



FR6CS12
FR6CS58
FR6CS12M
FR6CS58M



FR6ACB12
FR6ACB58
FR6ACB12M
FR6ACB58M

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 11.11mm nut driver on slide clamps.	1/2"	1	10
FR6TRBE58		5/8"	1	10
FR6TRBE12M		12 mm	1	10
FR6TRBE58M		16 mm	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 11.11mm nut driver on slide clamps.	1/2"	1	10
FR6TRBN58		5/8"	1	10
FR6TRBN12M		12 mm	1	10
FR6TRBN58M		16 mm	1	10
Under-Floor Pedestal QUIKLOCK™ Bracket for 6x4 and 4x4 Systems				
FR6USB	Used to support the 6x4 and 4x4 systems by attaching to under-floor pedestals. (Contains all necessary hardware.) Use on pedestals up to 25.4mm in diameter. The pre-assembled slide clamps enable fast assembly to channel. Use 11.11mm 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 9.5mm x 38.1mm or 9.5mm x 50.8mm ladder rack rail. Adjustable to 9 incremental positions from 101mm to 304mm above or below the ladder rack. No threaded rod required. The pre-assembled slide clamps enable fast assembly to channel. Use 11.11mm nut driver on slide clamps.	—	1	10
Centre 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 11.11mm 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		12 mm	1	10
FR6CS58M		16 mm	1	10
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 11.11mm nut driver on slide clamps.	1/2"	1	—
FR6ACB58		5/8"	1	—
FR6ACB12M		12 mm	1	—
FR6ACB58M		16 mm	1	—

4x4 and 6x4 FIBERRUNNER™ Mounting Brackets (continued)



FR6TB38
FR6TB12
FR6TB38M
FR6TB12M



F2PCLB12
F2PCLB58
F2PCLB12M
F2PCLB58M



FLB12X15
FLB58X15
FLB12X20
FLB58X20



TR1-12-X
TR1-58-X



TRC18FR-X8



FR6LRB



FR6LB

Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
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 2 nuts. The pre-assembled slide clamps enable fast assembly to channel. Use 11.11mm nut driver on slide clamps.	3/8"	1	10
FR6TB12		1/2"	1	10
FR6TB38M		10 mm	1	10
FR6TB12M		12 mm	1	10
Two Piece Ladder Rack Bracket for Attaching Threaded Rod to 38.1mm - 50.8mm Ladder Rack				
F2PCLB12	Two piece bracket attaches to 9.5mm wide x 38.1mm or 9.5mm wide by 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
F2PCLB12M		12 mm	1	10
F2PCLB58M		16 mm	1	10
Bracket for Attaching Threaded Rod to 38.1mm Ladder Rack				
FLB12X15	Bracket attaches to 9.5mm x 38.1mm ladder rack rail. Bracket accepts threaded rod (not included). Contains bracket and hardware for attaching bracket to ladder rack.	1/2"	1	10
FLB58X15		5/8"	1	10
Bracket for Attaching Threaded Rod to 50.8mm Ladder Rack				
FLB12X20	Bracket attaches to 9.5mm wide x 50.8mm ladder rack rail. Bracket accepts threaded rod (not included). Contains bracket and hardware for attaching bracket to ladder rack.	1/2"	1	10
FLB58X20		5/8"	1	10
Threaded Rod in 305mm Lengths				
TR1-12-X	Threaded rod can be used with various mounting brackets. Length = 305mm	1/2"	10	50
TR1-58-X		5/8"	10	50
Threaded Rod Cover				
TRC18FR-X8	Used to protect cabling from threaded rod. Vertical slit allows easy installation. Material meets UL94V-0 specifications. For indoor use only.	1/2" to 5/8"	10	100
Ladder Rack QUIKLOCK™ Bracket for 6x4 and 4x4 Systems				
FR6LRB	Used to support the 6x4 and 4x4 systems attaching directly to any 9.5mm x 38.1mm or 9.5mm x 50.8mm ladder rack rail. No threaded rod required. The pre-assembled slide clamps enable fast assembly to channel. Use 11.11mm 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 11.11mm nut driver on slide clamps.	—	1	10

4x4 and 6x4 FIBERRUNNER™ Mounting Brackets (continued)



FR6RMBEIA



FEIAB58



FRRMBNF58



FR6ACAB



FTRB12
FTRB58



FRSTRCLIP



FRBB6-X



FRSLNKT12
FRSLNKT58
FRSLNKT12M
FRSLNKT58M

Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
EIA/TIA Rack Mount QUIKLOCK™ Bracket for 6x4 and 4x4 Systems				
FR6RMBEIA	Used to support the 6x4 and 4x4 systems attaching to the top of an equipment rack. Contains hardware to mount to the top of EIA/TIA equipment racks. No threaded rod required. The pre-assembled slide clamps enable fast assembly to channel. Use 11.11mm nut driver on slide clamps.	—	1	10
EIA/TIA Threaded Rod Mounting Bracket				
FEIAB58	Bracket consists of two identical components that clamp onto the crossmembers of standard EIA/TIA racks and are secured with standard hex nuts and split lockwashers (included) tightened onto a length of 5/8 diameter threaded rod (not included). The threaded rod is positioned in the centre of the brackets providing a vertical threaded rod stud to mount FIBERRUNNER™ and FIBER-DUCT™ threaded rod mounting brackets onto.	5/8"	1	10
NetFrame Rack Mount QUIKLOCK™ Bracket for 6x4 and 4x4 Systems				
FRRMBNF58	Used to support the 6x4 and 4x4 systems attaching to the top of NETFRAME™ rack. (Contains all necessary mounting hardware.) Bracket accepts 5/8 threaded rod.	5/8"	1	0
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 108mm to 235mm allowing rind to be levelled 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 11.11mm nut driver on slide clamps.	—	1	0
Strut Metal Framing Bracket				
FTRB12	Bracket attaches to strut metal framing. Contains bracket and hardware for attaching threaded rod to metal framing.	1/2"	1	10
FTRB58		5/8"	1	10
Strut Clip Kit				
FRSTRCLIP	Strut mounting clip assembly allows FIBERRUNNER™ channel to be attached directly to standard 41.3mm wide strut structures. Contains all hardware for assembly. Bolts release with 11.1mm nut driver.	—	1	10
Snap Bracket Clip				
FRBB6-X	Snap bracket enables the 6x4 FIBERRUNNER™ channel to be quickly and securely mounted. Contains all hardware for assembly to any FIBERRUNNER™ 6x4 and 4x4 bracket.	—	10	100
Split Locking Nut Kit				
FRSLNKT12	Used to secure FIBERRUNNER™ mounting brackets anywhere along pre-installed threaded rod. Split nuts are opened, placed in desired position, closed and tightened.	1/2"	1	10
FRSLNKT58		5/8"	1	10
FRSLNKT12M		12 mm	1	10
FRSLNKT58M		16 mm	1	10

Adapters to Other Systems



FRADC12X4BL

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's 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



FRADC6X4

Adapter from 6x4 FIBERRUNNER™ System to ADC 6x4 FiberGuide*				
FRADC6X4YL	Fitting that transitions from ADC's 6x4 FiberGuide* System to 6x4 FIBERRUNNER™ System. Bolts release using 9.5mm nut driver to allow coupler to be removed, if necessary.	—	1	5



FRADC4X4BL

Adapter from 4x4 FIBERRUNNER™ System to ADC 4x4 FiberGuide*				
FRADC4X4BL	Fitting that transitions from ADC's 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



FRTYT68

Adapter from 6x4 FIBERRUNNER™ System to Tyton 8x4 Lightguide**				
FRTYT68	Fitting that transitions from Tyton 8x4 Lightguide** System to 6x4 FIBERRUNNER™ System. Fitting has a black finish and is made from metal. Attachment hardware is included.	(1 pc.) FRBC6X4YL	1	5



FRWBS68

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



FADC4X4

Adapter from 4x4 FIBER-DUCT™ System to ADC 4x4 FiberGuide*				
FADC4X4	Fitting that transitions from ADC's 4x4 Fibre-Guide* Fibre Cable Management System to 4x4 FIBER-DUCT™ System. Fitting has a black finish and is made from metal. Attachment hardware is included.	—	1	10



FTDNS4X4

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

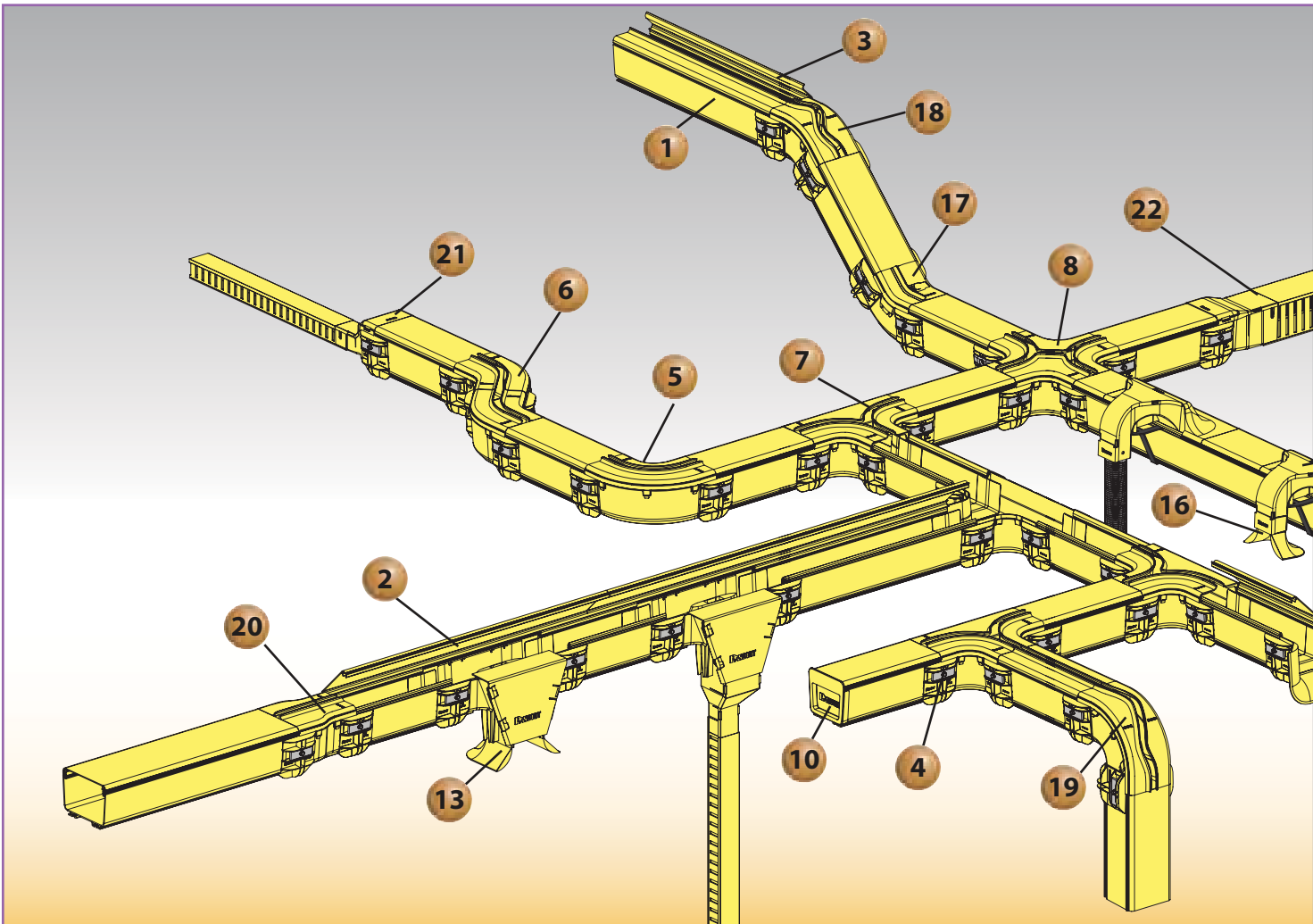
*FiberGuide is a registered trademark of ADC Telecommunications, Inc.

**Lightguide is a trademark of the Hellerman Tyton Corporation.

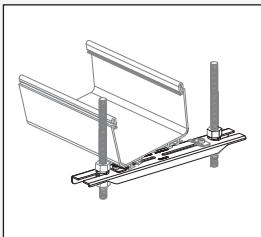
***Lightpaths is a registered trademark of Warren & Brown Technologies Pty Ltd.

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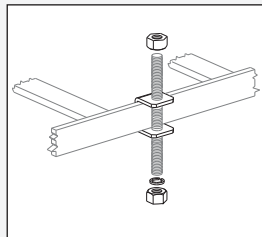
4x4 **FIBERRUNNER™** Routing System Roadmap



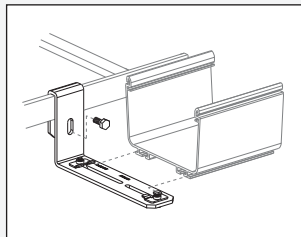
4x4 and 6x4 **FIBERRUNNER™** Mounting Brackets



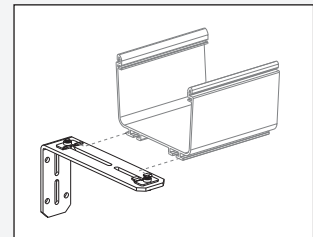
Trapeze QUIKLOCK™
Bracket for 6x4 and
4x4 Systems



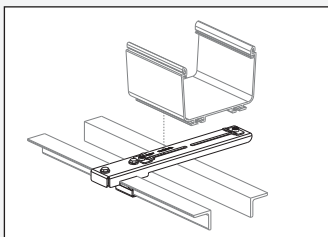
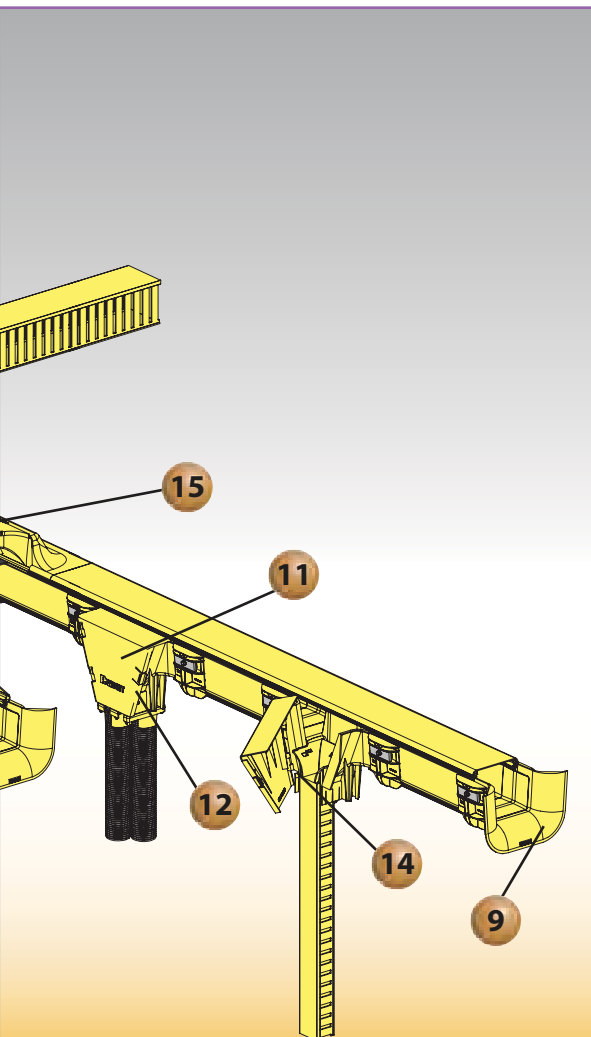
**Bracket for attaching
Threaded Rod to
Ladder Rack**



Ladder Rack QUIKLOCK™
Bracket for 6x4 and
4x4 Systems



"L" Wall Mount QUIKLOCK™
Bracket for 6x4 and
4x4 Systems



**EIA Rack Mount QUIKLOCK™
Bracket for 6x4 and
4x4 System**

- | | |
|--|--|
| | 1 4x4 <i>FIBERRUNNER</i> ™ Channel (see page 220) |
| | 2 4x4 Snap-On Hinged Cover (see page 220) |
| | 3 4x4 Split Hinged Cover (see page 220) |
| | 4 4x4 <i>QUIKLOCK</i> ™ Coupler (see page 221) |
| | 5 4x4 Horizontal Right Angle Fitting and Optional Split Cover (see page 221) |
| | 6 4x4 Horizontal 45° Angle Fitting and Optional Split Cover (see page 221) |
| | 7 4x4 Horizontal Tee Fitting and Optional Split Cover (see page 222) |
| | 8 4x4 Four Way Cross Fitting and Optional Split cover (see page 222) |
| | 9 3-Sided BRC Trumpet Spill-Out for 4x4 <i>FIBERRUNNER</i> Exit (see page 222) |
| | 10 4x4 End Cap Fitting (see page 222) |
| | 11 4x4 <i>QUIKLOCK</i> Vertical Tee Fitting (see page 222) |
| | 12 2-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing (see page 223) |
| | 13 3-Sided Vertical Tee Trumpet Spillout (see page 223) |
| | 14 Low Profile Reducer 4x4 to 2x2 for Vertical Tee (see page 223) |
| | 15 Spill-Over Junction and Optional Cover for 4x4 System (see page 224) |
| | 16 3-Sided BRC Trumpet Spillout for 2x2 Exit (see page 224) |
| | 17 4x4 Inside Vertical 45° Angle Fitting (see page 224) |
| | 18 4x4 Outside Vertical 45° Angle Fitting and Optional Split Cover (see page 225) |
| | 19 4x4 Outside Vertical Right Angle Fitting and Optional Split Cover (see page 225) |
| | 20 6x4 to 4x4 <i>FIBERRUNNER</i> Reducer Fitting and Optional Split Cover (see page 225) |
| | 21 4x4 <i>FIBERRUNNER</i> System to 2x2 <i>FIBER-DUCT</i> ™ Reducer Fitting with Cover (see page 226) |
| | 22 4x4 <i>FIBERRUNNER</i> System to 4x4 <i>FIBER-DUCT</i> Reducer Fitting with Cover (see page 225) |

NOTE: Additional 6x4 and 4x4 bracket applications, see pages 130-131

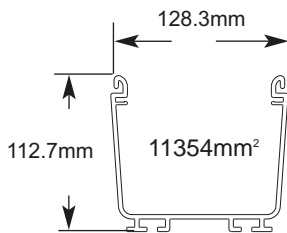
4x4 FIBERRUNNER™ Routing System

Cable Fills for FIBERRUNNER™ 4x4 Cable Routing System

The maximum amounts may vary according to the cable fill installation methods, straightness of cables, etc.

SPEC= 40% cablefill — the recommended design in cable capacity. Leaves room for future moves, adds and changes.

MAX= 60% cablefill — the maximum cable quantity based on cable interweaving and packing factors.



System Type	Area mm ²	Fibre Cable								Data Grade Cables	
		DIAMETER 1.6mm		DIAMETER 2.0mm		DIAMETER 3.0mm		DIAMETER 12.5mm		24 AWG UTP/CM CAT5e 4 pr	
		SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX
FIBERRUNNER™ 4x4 System	11354	2258	3388	1436	2154	644	966	37	56	190	286

Channel cutting instructions: For optimum results, use FRCUT miter box and saw. For larger quantities use a plastic cutting saw blade for clean, burr-free cuts. Recommend: Carbide 80T or 100T; .090" thickness, 3.2mm.

4x4 FIBERRUNNER™ Routing System Channel and Covers

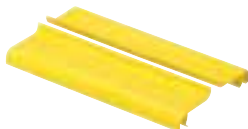
- Robust 4x4 system ideal for use with smaller cable counts
- Multiple spillout options provide versatility to mate to various equipment and rack configurations
- QuikLock couplers and brackets reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- UL Listed
- Compatible with all sizes of PANDUIT™ FIBERRUNNER™ and PANDUIT FIBER-DUCT™ routing systems, cable management products and racks
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS)



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 couplers 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 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 of every 457mm. Black colour only.	10	100

For other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)
Order length required, in multiples of standard length increments.

Order number of Cable Retainers required, in multiples of Standard Package Quantity.

4x4 FIBERRUNNER™ QUIKLOCK™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation, bolts loosen for component disassembly



FRBC4X4

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
FRBC4X4YL	Pre-assembled coupler quickly joins 2 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

4x4 FIBERRUNNER™ System Fittings

- Minimum 50.8mm bend radius control fittings
- Protects against signal loss and performance degradation
- Fittings assemble using FRBC couplers
- Optional split covers snap onto each fitting
- Covers feature 19mm gap to allow cable to be laid in



FRR4X4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
4x4 Horizontal Right Angle Fitting				
FRR4X4YL	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



FRRASC4

FRRASC4YL	Optional split cover for the horizontal right angle fitting FRR4X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 19mm opening for easy access to add or remove cables.	—	1	5
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4x4 Horizontal 45° Angle Fitting



FRH45X4

FRH45X4YL	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
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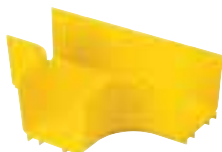
Split Cover for 4x4 Horizontal 45° Angle Fitting



FRH45SC4

FRH45SC4YL	Optional split cover for the horizontal 45° angle fitting FRH45X4YL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 19mm opening for easy access to add or remove fibre cables.	—	1	5
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4x4 Horizontal Tee Fitting



FRT4X4

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
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For other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

4x4 FIBERRUNNER™ System Fittings (continued)



FRTSC4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
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 19mm opening for easy access to add or remove cables.	—	1	5



FRFWC4X4

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



FRFWCSC4

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 19mm opening for easy access to add or remove cables.	—	1	5



FRTR4X4

3-Sided BRC Trumpet Spill-Out for 4x4 FIBERRUNNER™ Exit				
FRTR4X4YL	Used to limit the bend of the fibre cable to 50.8mm when exiting from 4x4 FIBERRUNNER™ channel or a FIBERRUNNER™ horizontal tee fitting.	(1 pc.) FRBC4X4YL	1	5



FREC4X4

4x4 End Cap Fitting				
FREC4X4YL	Used for closing off open ends of the channel or fittings. No coupler required, push-on installation.	—	1	5



FRVT4X4

4x4 QUIKLOCK™ Vertical Tee Fitting				
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



FR1.5IDE

1 Port Spillout Side Exit to 38mm Inside Diameter Corrugated Tubing				
FR1.5IDEYL	Used to route cable into 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 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 colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

4x4 FIBERRUNNER™ System Fittings (continued)



FRIDT4X4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
2 Port Spillover to 38mm Inside Diameter Corrugated Tubing				
FRIDT4X4YL	Used to route cable into one or two pieces of 38mm diameter split corrugated tubing. Requires coupler to be used with 4x4 FIBERRUNNER™ fitting. Used with and 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



FIDT4X4BL

2-Port Spillover to 38mm Inside Diameter Corrugated Tubing				
FIDT4X4BL	Used to route cable into one or two pieces of 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 colour only.	—	1	5



FTR4X4

3-Sided Vertical Tee Trumpet Spillover				
FTR4X4YL	Used to limit the bend radius of the cable to 50.8mm when exiting from a 4x4 or 6x4 FIBERRUNNER™ vertical tee fitting and 4x4 FIBER-DUCT™ fittings.	—	1	5



FRLPR42BL

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 FIBER-DUCT™ channel with minimal space required. No tools required for assembly. Black colour only.	—	1	5



FRSP

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	—



FRSP4C

Spill-Over Junction Cover for 4x4 System				
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

For other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

4x4 FIBERRUNNER™ System Fittings (continued)



FRSP4

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
Spill-Over Junction with 4x4 Exit				
FRSP4YL	Assembles onto 4x4, 6x4, or 12x4 <i>FIBERRUNNER</i> ™ channel spilling over the side into a 4x4 vertical exit. Requires coupler to attach 4x4 <i>FIBERRUNNER</i> ™ channel and fittings to vertical exit. Mounts directly to existing installation with no alteration required. Mounting hardware provided for secure attachment.	(1) FRBC4X4YL	1	—



FRSP44C

Spill-Over Junction Cover for 4x4 System				
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



FTR2X2

3-Sided BRC Trumpet Spillout for 2x2 Exit				
FTR2X2YL	Used to limit the bend of the fibre cable to 50mm when exiting from a <i>FIBERRUNNER</i> ™ spill-over fitting FRSPYL or from 2x2 <i>FIBER-DUCT</i> ™ channel.	—	1	5



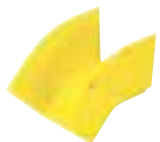
FIDT2X2

1-Port Spillout to 38mm Inside Diameter Corrugated Tubing				
FIDT2X2YL	Used to route cable into one piece of 38.1mm diameter split corrugated tubing. Used with <i>FIBERRUNNER</i> ™ spill-over fitting FRSPYL, 2x2 <i>FIBER-DUCT</i> ™ fittings and the 2x2 <i>FIBERRUNNER</i> ™ hinged channel. Securely holds split corrugated tubing to ensure system integrity and easy access to add or remove cables.	—	1	5



FRIV454X4

4x4 Inside Vertical 45° Angle Fitting				
FRIV454X4YL	Attaches to 4x4 channel and/or fitting to create a 45° upward angle from a straight 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



FROV454X4

4x4 Outside Vertical 45° Angle Fitting				
FROV454X4YL	Attaches to 4x4 channel and/or fitting to create a 45° upward angle from a straight horizontal run. Used with outside 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 colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

4x4 FIBERRUNNER™ System Fittings (continued)



FROV45SC4

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 19mm opening for easy access to add and remove cables.	—	1	5



FROVRA4X4

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



FROVRASC4

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 19mm opening for easy access to add or remove cables.	—	1	5



FRUPS4X4

4x4 Up Spout Fitting				
FRUPS4X4YL	Allows cable to be directed upward out of the channel deployed directly below racks and cabinets in underfloor installations. Snaps directly onto the channel and can be positioned to allow cables to be laid in. A 25.4mm top bezel is included. Other fittings can be installed for specific applications including FTR4X4YL and FIDT4X4BL.	—	1	5



FRRF6FR4

6x4 to 4x4 FIBERRUNNER™ Reducer Fitting				
FRRF6FR4YL	Attaches any 6x4 FIBERRUNNER™ fitting to channel to any 4x4 FIBERRUNNER™ fitting or channel. Accepts split cover FRRF6FR4SCYL.	(1 pc.) FRBC6X4YL (1 pc.) FRBC4X4YL	1	5

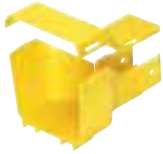


FRRF6FR4SC

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 19mm opening for easy access to add or remove cables,	—	1	5

For other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

4x4 FIBERRUNNER™ System Fittings (continued)



FRRF4FD2

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
4x4 FIBERRUNNER™ to 2x2 FIBER-DUCT Reducer Fitting with Cover				
FRRF4FD2YL	Attaches any 4x4 FIBERRUNNER™ fitting or channel to the 2x2 FIBER-DUCT™ channel, S2X2YL6 or E2X2YL6. Includes solid cover.	(1 pc.) FRBC4X4YL	1	5



FRRF4FD4

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 colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

FIBERRUNNER™ Accessories



FRCUT



FR38DR
FR716DR



FR516DR



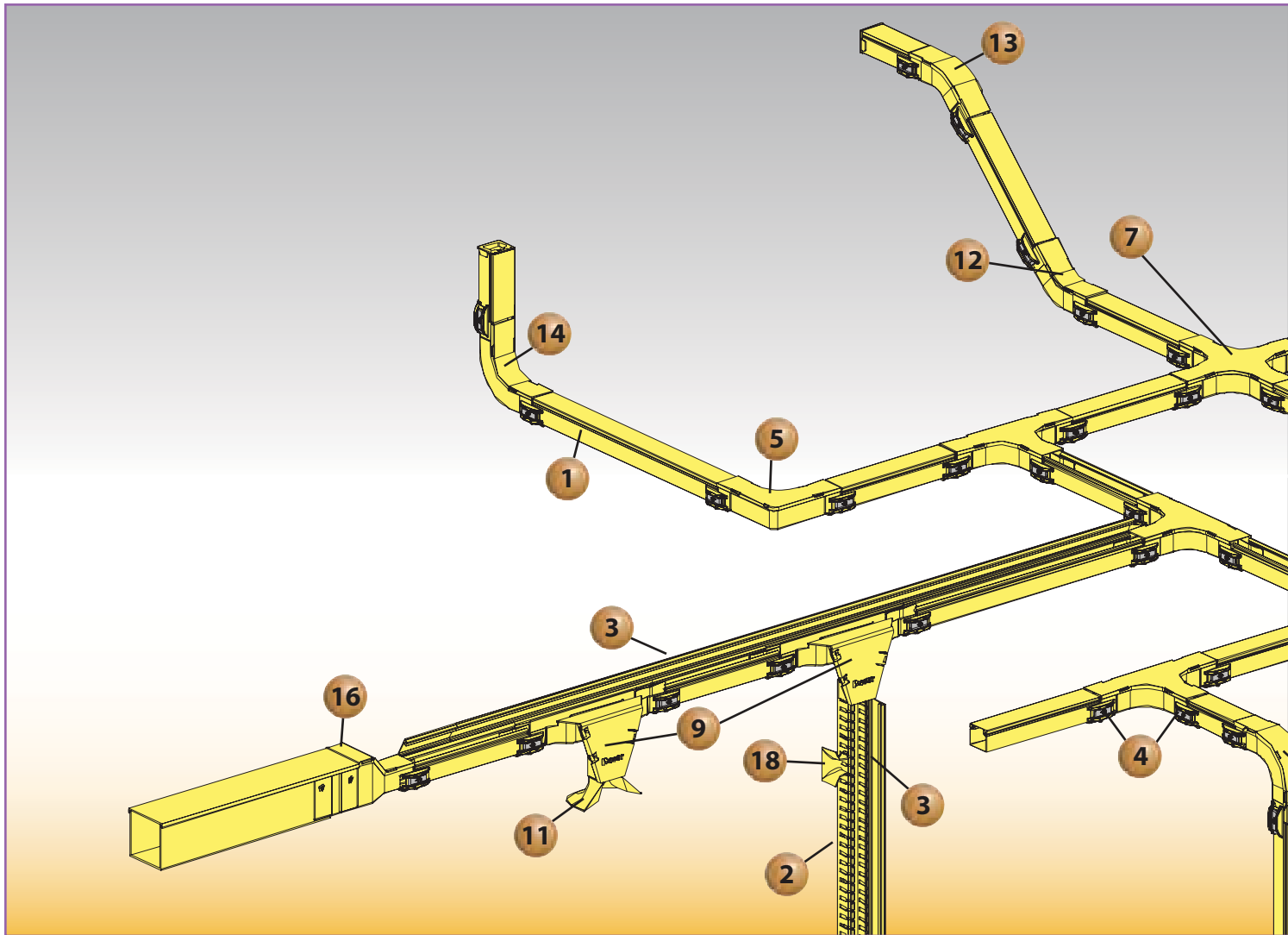
FR38BIT
FR716BIT



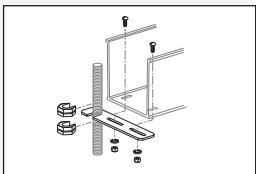
FRUIB-X

Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
Mitre Box and Saw			
FRCUT	Used to cut 2x2, 4x4 and 6x4 <i>FIBERRUNNER™</i> channel and hinged cover, 4x4 <i>FIBER-DUCT™</i> channel and cover and 2x2 <i>FIBER-DUCT™</i> channel and cover.	1	—
3/8 Nut Driver			
FR38DR	Used to disassemble 4x4, 6x4 and 12x4 <i>FIBERRUNNER™</i> couplers when required.	1	10
5/16 Nut Driver			
FR516DR	Used to disassemble 2x2 <i>FIBERRUNNER™</i> couplers when required.	1	10
7/16 Nut Driver			
FR716DR	Used to assemble <i>QUIKLOCK™</i> bracket slide clamps	1	10
3/8 Nut Driver Bit			
FR38BIT	Nonmagnetic nut driver bit for power tools. Shank is 6.35mm hex. Used to disassemble 4x4, 6x4 and 12x4 <i>FIBERRUNNER™</i> couplers when required.	1	10
7/16 Nut Driver Bit			
FR716BIT	Nonmagnetic nut driver bit for power tools. Shank is 6.35mm hex. Used to assemble <i>QUIKLOCK™</i> bracket slide clamps.	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 6.3mm holes must be drilled through to secure brackets.	10	100

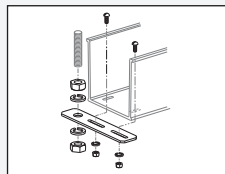
2x2 **FIBER-RUNNER** Routing System Roadmap



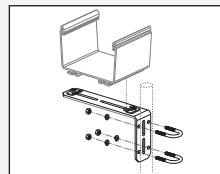
FIBER-DUCT™ Mounting Brackets



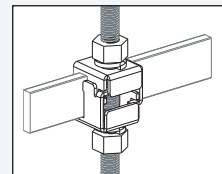
Existing Threaded Rod Bracket for *FIBER-DUCT* System



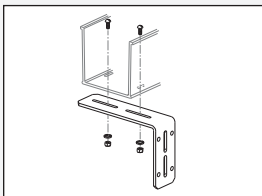
New Threaded Rod Bracket for *FIBER-DUCT* System



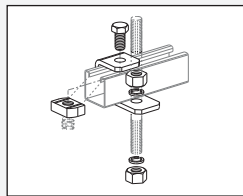
Under-Floor Pedestal Bracket for *FIBER-DUCT* System



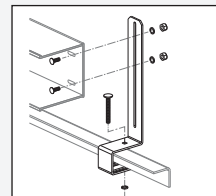
Two Piece Ladder Rack Bracket for Attaching Threaded Rod to 1 1/2\"/>



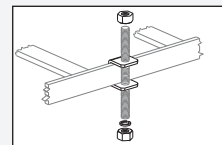
"L" Wall Mount Bracket for *FIBER-DUCT* System



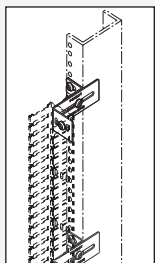
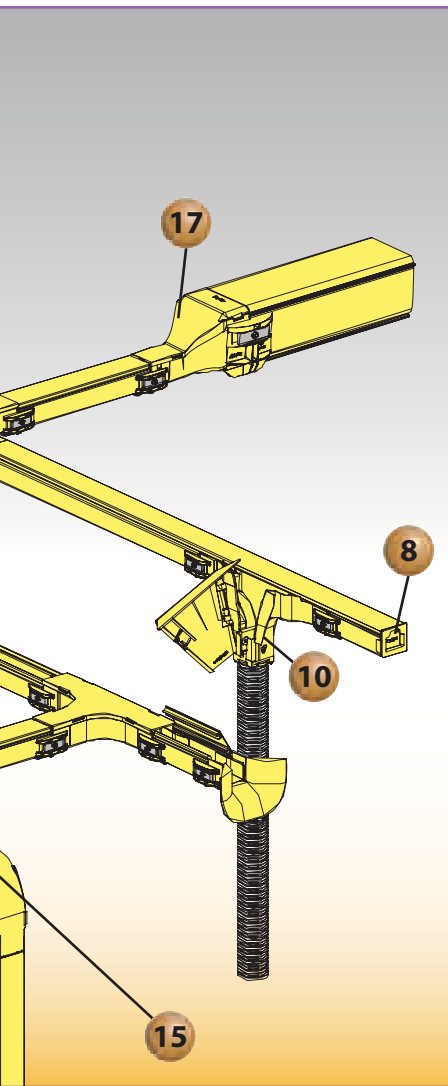
Strut Metal Framing Bracket



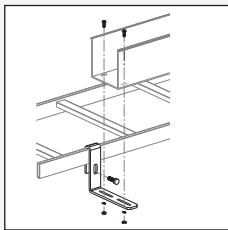
Top Rail of Rack Support Bracket



Bracket for Attaching Threaded Rod to 1 1/2\"/>



Adjustable "Z" Bracket



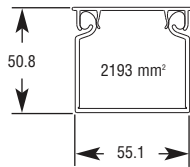
Ladder Rack Bracket for FIBER-DUCT System

-  **1** 2x2 FIBERRUNNER™ Hinged Channel
-  **2** 2x2 FIBERRUNNER Hinged Slotted Channel
-  **3** 2x2 FIBERRUNNER Hinged Snap-On Cover
-  **4** 2x2 QUIKLOCK™ Coupler
-  **5** 2x2 Horizontal Right Angle Fitting
-  **6** 2x2 Horizontal Tee Fitting
-  **7** 2x2 Four Way Cross Fitting
-  **8** 2x2 End Cap Fitting
-  **9** 2x2 Vertical Tee Fitting
-  **10** 1-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing
-  **11** 3-Sided BRC Trumpet Spillout for 2x2 Exit
-  **12** 2x2 Inside Vertical 45° Angle Fitting
-  **13** 2x2 Outside 45° Angle Fitting
-  **14** 2x2 Inside Vertical Right Angle Fitting
-  **15** 2x2 Outside Vertical Right Angle Fitting
-  **16** 4x4 FIBER-DUCT™ to 2x2 FIBER-DUCT Reducer Fitting
-  **17** 4x4 FIBERRUNNER to 2x2 FIBER-DUCT Reducer Fitting
-  **18** 2x2 Hinged Channel 1" Bend Radius Control Fitting

2x2 FIBERRUNNER™ Routing System

Cable Fills for FIBERRUNNER™ 2x2 Cable Routing System

The maximum amounts may vary according to the cable fill installation methods, straightness of cables, etc.



SPEC= 40% cablefill — the recommended design in cable capacity. Leaves room for future moves, adds and changes. **MAX= 60% cablefill** — the maximum cable quantity based on cable interweaving and packing factors.

System Type	Area mm ²	Fibre Cable								Data Grade Cables	
		DIAMETER 1.6mm		DIAMETER 2.0mm		DIAMETER 3.0mm		DIAMETER 12.5mm		24 AWG UTP/CM CAT5e 4 pr	
		SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX
FIBERRUNNER™ 2x2 System	2193	436	654	277	416	124	186	7	10	36	55

Channel cutting instructions: For optimum results, use FRCUT miter box and saw. For larger quantities use a plastic cutting saw blade for clean, burr-free cuts. Recommend: Carbide 80T or 100T; 2.29mm thickness, 3.2mm.

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
- UL Listed
- Compatible with all sizes of PANDUIT™ FIBERRUNNER™ and PANDUIT FIBER-DUCT™ routing systems, cable management products and racks
- 2x2 FIBERRUNNER™ Hinged and Slotted Channels can be used with 2x2 Fibre-Duct fittings (see pages XX and XX) and brackets (see page XX-XX)
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems



HS2X2



H2X2



HC2

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 sides 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

For other colour replace suffix YL (Yellow) with OR (Orange) and BL (Black)
Order number of metres required, in multiples of standard length increments.

2x2 FIBERRUNNER™ QUIKLOCK™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation, bolts loosen for component disassembly



FBC2X2

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 7.9mm nut driver to allow coupler to be removed if necessary.	1	5

For other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

2x2 FIBERRUNNER™ System Fittings



FHDEC2X2



FVTHD2X2



FIDT2X2



TRC2HDBL

Part Number	Part Description	Couplers Required	Std. Pkg. Qty.	Std. Ctn. Qty.
2x2 End Cap Fitting				
FHDEC2X2YL	Used for closing off open ends of the hinged channel or fittings. No coupler required. Push-on installation.	—	1	5
2x2 Vertical Tee Fitting				
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
1-Port Spillover to 38mm Inside Diameter Corrugated Tubing				
FIDT2X2YL	Used to route cable into one piece of 38.1mm diameter split corrugated tubing. Used with FIBERRUNNER spill-over fitting 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	5
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. Black colour only.	—	1	10

For other colour replace suffix YL (Yellow) with OR (Orange) or BL (Black)

Notes

FIBER-DUCT™ ROUTING SYSTEM

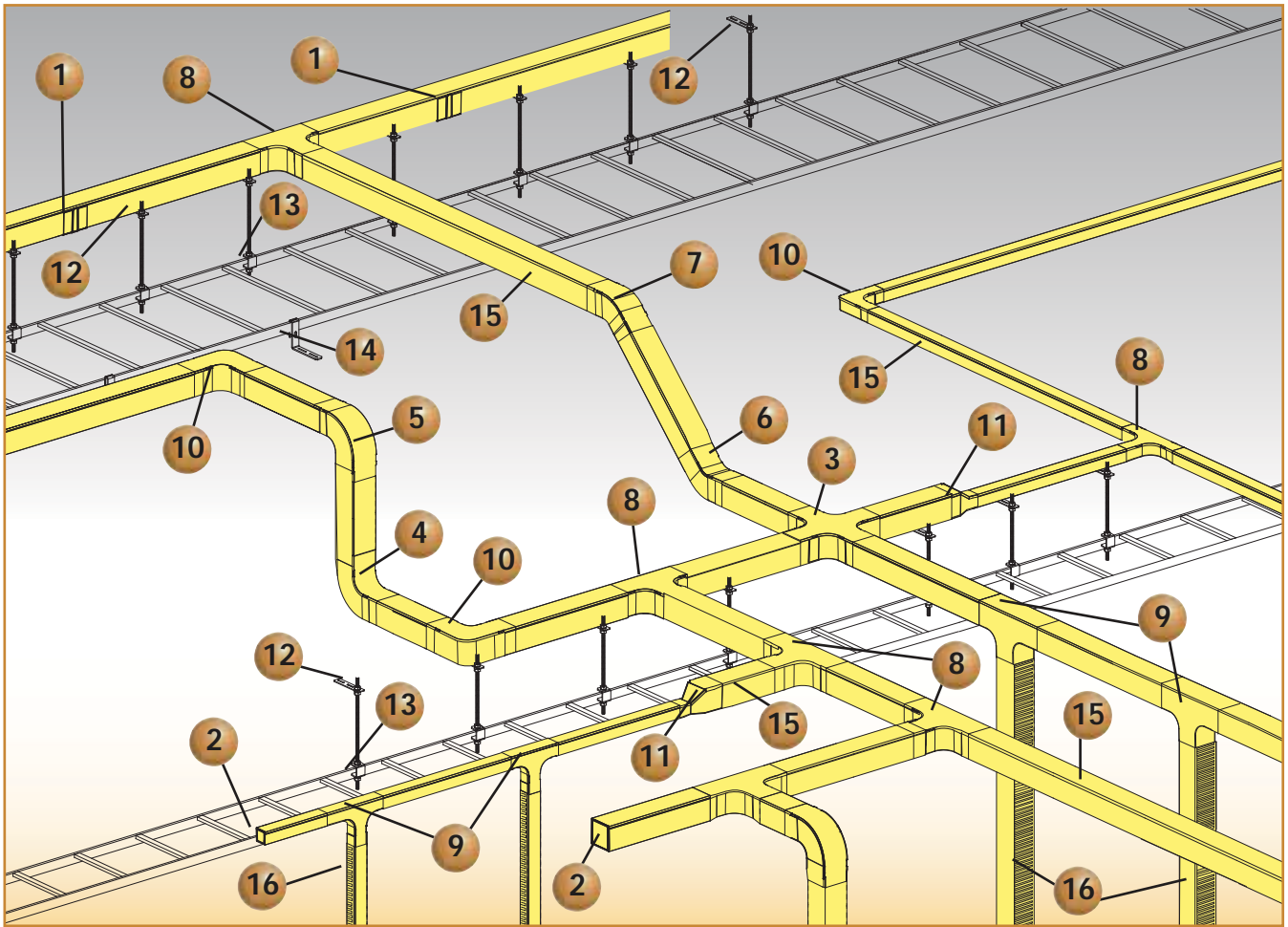
The PANDUIT™ Network Connectivity Group provides leading solutions for cable routing. These routing products are compatible with our cable management solutions increasing your ability to maintain an orderly and clean work environment, implement quick and easy moves, adds and changes and maintain the integrity of your fibre and copper cabling plant in order to maximise long term performance.



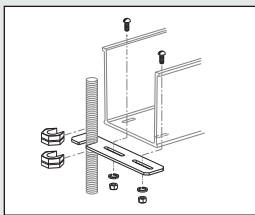
- Two system sizes available: 4x4 and 2x2
- Minimum 50.8mm bend radius fittings protect against signal loss due to excessive cable bends
- Optimized for use with PAN-NET™ Network Connectivity System
- Snap-on non-slip covers
- Compatible with PANDUIT FIBERRUNNER™ 12x4, 6x4, 4x4 and 2x2 Routing Systems

The 2x2 and 4x4 FIBER-DUCT™ Routing Systems are comprised of channel, fittings and brackets designed to segregate, route and protect fibre optic and copper cabling to and between racks within the telecommunications room.

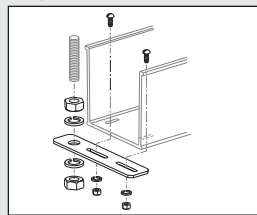
2x2 and 4x4 FIBER-DUCT™ Routing Systems Roadmap



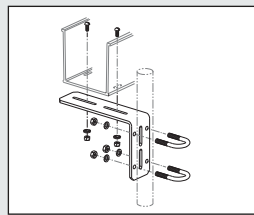
FIBER-DUCT™ Mounting Brackets



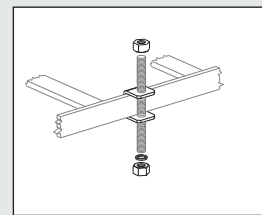
Existing Threaded Rod Bracket for FIBER-DUCT™ System



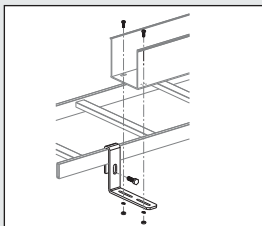
New Threaded Rod Bracket for FIBER-DUCT™ System



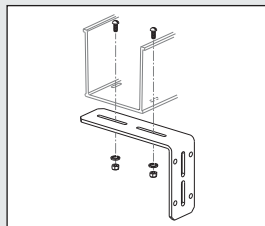
Under-Floor Pedestal Bracket for FIBER-DUCT™ System



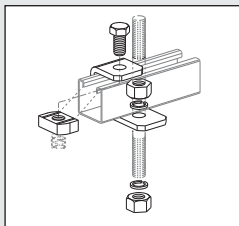
Bracket for Attaching Threaded Rod to 1 1/2" Ladder Rack



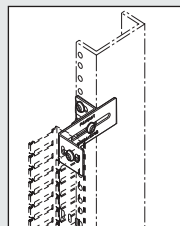
Ladder Rack Bracket for FIBER-DUCT™ System



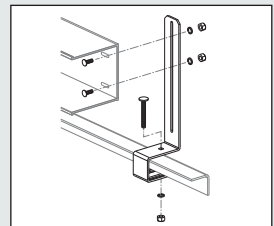
"L" Wall Mount Bracket for FIBER-DUCT™ System



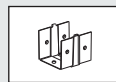
Strut Metal Framing Bracket



Adjustable "Z" Bracket



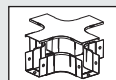
Top Rail of Rack Support Bracket



1 Coupler Fitting (see page 237)



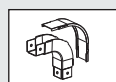
2 End Cap Fitting (see page 237)



3 Four Way Cross Fitting (see page 237)



4 Inside Vertical Right Angle (see page 238)



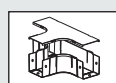
5 Outside Vertical Right Angle (see page 238)



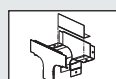
6 Inside Vertical 45° Angle (see page 238)



7 Outside Vertical 45° Angle (see page 238)



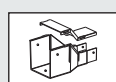
8 Horizontal Tee Fitting (see page 237)



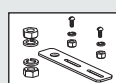
9 Vertical Tee Fitting (see page 237)



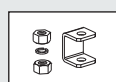
10 Right Angle Fitting (see page 238)



11 Reducer Fitting (see page 238)



12 Mounting Kit for New Thd. Rod Assembly (see page 240)



13 Bracket for Attaching Threaded Rod to Ladder Rack (see page 240)



14 Ladder Rack Bracket (see page 241)



15 *FIBER-DUCT™* Channel (see page 242)

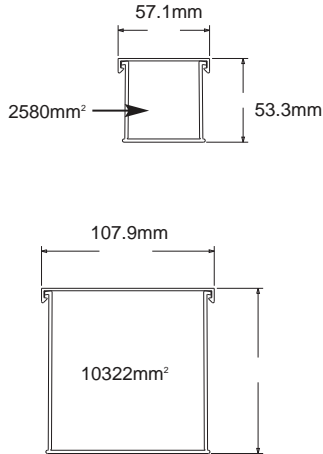


16 *FIBER-DUCT™* Slotted Channel (see page 243)

Cable Fills for 2x2 and 4x4 FIBER-DUCT™ Routing System

The maximum amounts may vary according to the cable fill installation methods, straightness of cables, etc.

SPEC= 40% cablefill — the recommended design in cable **MAX= 60% cablefill** — the maximum cable quantity capacity. Leaves room for future moves, adds and changes. based on cable interweaving and packing factors.



System Type	Area mm²	Fibre Cable								Data Grade Cables	
		DIAMETER 1.6mm		DIAMETER 2.0mm		DIAMETER 3.0mm		DIAMETER 12.5mm		24 AWG UTP/CM CAT5e 4 pr	
		SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX
FIBER-DUCT™ 2x2 System	2580	99	326	490	146	219	8	13	43	65	
FIBER-DUCT™ 4x4 System	10322	903	28	1306	1959	585	878	34	50	173	260

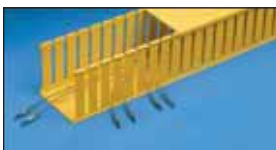
Channel cutting instructions: For optimum results, use FRCUT miter box and saw. For larger quantities use a plastic cutting saw blade for clean, burr-free cuts. Recommend: Carbide 80T or 100T; 2.29mm thickness, 3.2mm kerf.

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
- UL Listed
- Compatible with PANDUIT™ FIBERRUNNER™ 2x2, 4x4, 6x4 and 12x4 Routing Systems



**S2x2
S4x4**



**E2x2
E4x4**

Part Number	Part Description	System Size	Std. Pkg. Qty.	Std. Ctn. Qty.
FIBER-DUCT™ Channel				
L	Used to carry the cables throughout the FIBER-DUCT™ routing system. Accepts cover C2YL6. Cover sold separately.	2x2	6	120
L	Used to carry the cables throughout the FIBER-DUCT™ routing system. Accepts cover C4YL6. Cover sold separately.	4x4	6	60
FIBER-DUCT™ Slotted Channel				
L	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
L	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				
L	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
L	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 colour replace suffix YL (Yellow) with OR (Orange). Order number length required, in multiples of standard length increments.

FIBER-DUCT™ System Fittings



Part Number	Part Description	System Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Coupler Fitting				
L	Used to join two sections of duct together. <i>FIBER-DUCT™</i> coupler is not required at each fitting connection.	2x2	1	5
L		4x4	1	5
Horizontal Right Angle Fitting				
L	Attaches to channel to create a 90° horizontal turn from a straight horizontal run. Cover included.	2x2	1	5
L		4x4	1	5
Horizontal Tee Fitting				
L	Attaches to channel to create a 90° horizontal branch from a straight horizontal run. Cover included.	2x2	1	5
L		4x4	1	5
Four Way Cross Fitting				
L	Attaches to channel to create a horizontal four way cross intersection. Cover included.	2x2	1	5
L		4x4	1	5
End Cap Fitting				
L	Used for closing off open ends of the channel. No coupler required, push-on installation.	2x2	1	5
L		4x4	1	5
2x2 Vertical Tee Fitting				
D L	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 <i>QUIKLOCK™</i> 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
Vertical Tee Fitting				
L	Attaches to channel to create a 90° vertical drop from a horizontal run. Accepts FIDT4X4BL, FTR4X4YL, S4X4YL6 or E4X4YL6 directly.	4x4	1	5
1-Port Spillout to 38mm Inside Diameter Corrugated Tubing				
D L	Used to route cable into one piece of 38.1mm diameter split corrugated tubing. Used with <i>FIBERRUNNER™</i> spill-over fitting FRSPYL, 2x2 <i>FIBER-DUCT™</i> fittings and the 2x2 <i>FIBERRUNNER™</i> hinged channel. Securely holds split corrugated tubing to ensure system integrity and easy access to add or remove cables.	2x2	1	5
2-Port Spillout to 38mm Inside Diameter Corrugated Tubing				
D BL	Used to route cable into one or two pieces of 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 colour only.	4x4	1	5
3-Sided Vertical Tee Trumpet Spillout				
L	Used to limit the bend radius of the cable to 50.8mm when exiting from a 4x4 or 6x4 <i>FIBERRUNNER™</i> vertical tee fitting and 4x4 <i>FIBER-DUCT™</i> fittings.	4x4	1	5

For other colour replace suffix YL (Yellow) with OR (Orange).
Fittings include 7.9mm assembly holes for fast mechanical fastening.

FIBER-DUCT™ System Fittings (continued)



FTR2X2



FIV452X2
FIV454X4



FOV452X2
FOV454X4



FIVRA2X2
FIVRA4X4



FOVRA2X2
FOVRA4X4



FRF42



FRF4544BL

Part Number	Part Description	System Size	Std. Pkg. Qty.	Std. Ctn. Qty.
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3-Sided BRC Trumpet Spillover for 2x2 Exit

L	Used to limit the bend of the fibre cable to 50mm when exiting from a <i>FIBERRUNNER™</i> spill-over fitting FRSPYL or from 2x2 <i>FIBER-DUCT™</i> channel.	2x2	1	5
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Inside Vertical 45° Angle Fitting

L	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
L		4x4	1	5

Outside Vertical 45° Angle Fitting

O	L	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
O	L		4x4	1	5

Inside Vertical Right Angle Fitting

L	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
L		4x4	1	5

Outside Vertical Right Angle Fitting

O	L	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
O	L		4x4	1	5

4x4 to 2x2 FIBER-DUCT™ Reducer Fitting

L	Joins any 4x4 <i>FIBER-DUCT™</i> fitting to the 2x2 <i>FIBER-DUCT™</i> channel, S2X2YL6 or E2X2YL6. Includes cover.	2x2 4x4	1	5
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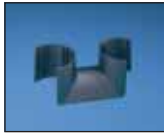
4x4 FIBER-DUCT™ Channel to 4x5 Standard Vertical Slotted Duct Fitting

BL	Connects 4x4 <i>FIBER-DUCT™</i> channel to 4x5 standard vertical slotted duct. Hardware for attaching is included. Black colour only.	4x4	1	5
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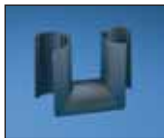
For other colour replace suffix YL (Yellow) with OR (Orange).
Fittings include 7.9mm assembly holes for fast mechanical fastening.

FIBER-DUCT™ Bend Radius Control Trumpet

- Provides method to transition cabling into rack system
- Maintains 25.4mm bend radius control



TRC2BL



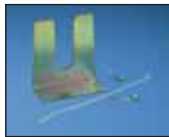
TRC4BL

Part Number	Part Description	System Size	Std. Pkg. Qty.	Std. Ctn. Qty.
TRC2BL	Bend radius control trumpet for exiting at the sidewall of 50.8mm wall heights of Type G or Type FS Wiring Duct channels	2x2	1	10
TRC4BL	Bend radius control trumpet for exiting at the sidewall of 100mm wall heights of Type G or Type FS Wiring Duct channels	4x4	1	10

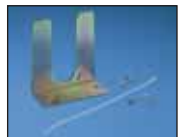
FIBER-DUCT™ Accessories



FITF2X2



FITF4X4A



FITF4X4B



NR2
NR4



F14PWN-L



F14PN-L



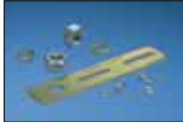
FBB

Part Number	Part Description	System Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Innerduct Transition Fitting - 2x2 Size				
	Provides transition from 2x2 FIBER-DUCT™ Routing System to 19mm or 25.4mm inner duct.	2x2	1	10
Innerduct Transition Fitting - 4x4 Size				
	Provides transition from 4x4 FIBER-DUCT™ Routing System to two pieces of 25.4mm inner duct.	4x4	1	10
Innerduct Transition Fitting - 4x4 Size				
B	Provides transition from 4x4 FIBER-DUCT™ Routing System to two pieces of 31.8mm inner duct.	4x4	1	10
Snap Rivets				
L	Snap rivet fastens channel and fittings together for added strength and rigidity. Snap rivet mounts flush to surfaces.	2x2	50	500
BL L		4x4	50	500
Plastic Bolts and Nuts				
L	6.35mm plastic bolts and wing nuts fastens channel and fittings together for added strength and rigidity.	2x2	50	500
L		4x4	50	500
L	6.35mm plastic bolts and hex nuts fastens channel and fittings together for added strength and rigidity.	2x2	50	500
L		4x4	50	500
Snap Bracket Clip				
BB	Snap bracket enables the FIBER-DUCT™ channel to be quickly and securely mounted. Contains all hardware for assembly to any FIBER-DUCT™ bracket.	2x2	10	100
BB		4x4	10	100

FIBER-DUCT™ Mounting Brackets



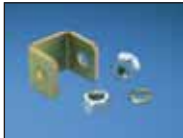
FTRBE12/FTRBE12M
FTRBE58



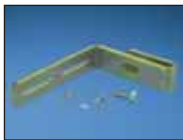
FTRBN12/FTRBN12M
FTRBN58



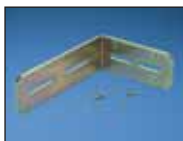
FUSB



FLB12X15
FLB58X15
FLB12X20
FLB58X20



FLRB



FLB



FTRB12
FTRB58



FZBA1.5X4

Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Existing Threaded Rod Bracket for FIBER-DUCT™ System				
B	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
B		5/8"	1	10
B		12mm	1	10
New Threaded Rod Bracket for FIBER-DUCT™ System				
B	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
B		5/8"	1	10
B		12mm	1	10
Under-Floor Pedestal for FIBER-DUCT™ System				
B	Used to support the 2x2 and 4x4 FIBER-DUCT™ Systems by attaching to under floor pedestal (not included). Use on pedestals up to 25.4mm in diameter. Bracket contains hardware to attach to pedestal and hardware for mounting channel to bracket.	—	1	10
Bracket for Attaching Threaded Rod to 38.1mm Ladder Rack				
LB	Bracket attaches to 9.5mm x 38.1mm ladder rack rail. Bracket accepts threaded rod (not included). Contains bracket and hardware for attaching bracket to ladder rack.	1/2"	1	10
LB		5/8"	1	10
Bracket for Attaching Threaded Rod to 50.8mm Ladder Rack				
LB	Bracket attaches to 9.5mm wide x 50.8mm ladder rack rail. Bracket accepts threaded rod (not included). Contains bracket and hardware for attaching bracket to ladder rack.	1/2"	1	10
LB		5/8"	1	10
Ladder Rack Bracket for FIBER-DUCT™ System				
L B	Used to support the 2x2 and 4x4 FIBER-DUCT™ Systems attaching directly to any 9.5mm x 38.1mm or 9.5mm x 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				
LB	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
Strut Metal Framing Bracket				
B	Bracket attaches to strut metal framing. Contains bracket and hardware for attaching threaded rod to metal framing.	1/2"	1	10
B		5/8"	1	10
Adjustable "Z" Bracket				
B	Bracket used to offset FIBER-DUCT™ System from mounting surface, adjustable from 38.1mm to 101mm. Typically used on the front of an equipment rack.	—	1	10

FIBER-DUCT™ Mounting Brackets (continued)



FMRB



FEIAB58



F2PCLB12
F2PCLB58
F2PCLB12M
F2PCLB58M



FRSLNKT12
FRSLNKT58
FRSLNKT12M
FRSLNKT58M

Part Number	Part Description	For Threaded Rod Size	Std. Pkg. Qty.	Std. Ctn. Qty.
Top Rail of Rack Support Bracket				
B	Bracket attaches to top rail of equipment rack for added support in a vertical direction. Contains hardware for attaching bracket to an EIA/TIA rack and for mounting channel to bracket.	—	1	10
EIA/TIA Threaded Rod Mounting Bracket				
B	Bracket consists of two identical components that clamp onto the crossmembers of standard EIA/TIA racks and are secured with standard hex nuts and split lockwashers (included) tightened onto a length of 15.9mm diameter threaded rod (not included). The threaded rod is positioned in the centre of the brackets providing a vertical threaded rod stud to mount <i>FIBERRUNNER™</i> and <i>FIBER-DUCT™</i> threaded rod mounting brackets onto.	5/8"	1	10
Two Piece Ladder Rack Bracket for Attaching Threaded Rod to 38.1mm - 50.8mm Ladder Rack				
LB	Two piece bracket attaches to 9.5mm wide x 38.1mm or 9.5mm wide by 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
LB		5/8"	1	10
LB		12 mm	1	10
LB		16 mm	1	10
Split Locking Nut Kit				
L	Used to secure <i>FIBERRUNNER™</i> mounting brackets anywhere along pre-installed threaded rod. Split nuts are opened, placed in desired position, closed and tightened.	1/2"	1	10
L		5/8"	1	10
L		12 mm	1	10
L		16 mm	1	10

★ NEW! **PANDUCT™ Type H - Hinged Cover Slotted Wall Wiring Duct**

Specifications

- Made of rigid PVC
- UL Recognised continuous use temperature: 50C°
- UL94 flammability rating of V-0
- Provided with mounting holes

Features & 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



Part Number	Duct Size (W x H)	Cover Part Number	Length	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm		mm		
H2X2BL6	55.1 x 50.3	HC2BL6	1800mm	6	120
H4X4BL6	108.0 x 104.1	HC4BL6	1800mm	6	60

For other colours replace BL (Black) with LG (Light Grey).
Order length required or Standard Carton Quantity.

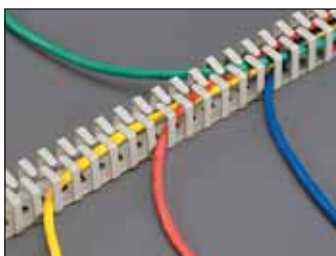
UL® CB® PANDUCT™ Type FL - Flexible Wiring Duct

Specifications

- Low smoke, halogen free, polypropylene material
- UL94 flammability rating of V-2
- UL Recognised continuous use temperature: 90C°
- Factory applied adhesive tape provided for easy mounting

Features & Benefits

- The flexibility of Type FL 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 (WXH)	Length	Std. Pkg. Qty.
	mm			mm
FL12X12GR-A	12.5 x 12.5	500	112
FL25X25GR-A	25.0 x 25.0	500	70
FL50X50GR-A	50.0 x 50.0	500	32

Available in GR (RAL 7032 Grey/Green) only.

UL® **SP®** **CE** **PANDUCT™ Type G - Slotted Wall Wiring Duct**

Specifications

- Made of rigid PVC
- Rated for continuous use temperatures up to 50C°
- UL Flammability Rating: 94V-0
- Provided with mounting holes

Features & Benefits

- Wide finger design provides greater rigidity and larger slot width
- **PANDUIT™** exclusive rounded edges will not cut or abrade wiring insulation
- Non-slip cover will not slip 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



Part Number	Duct Size W x H	Slot Width	Cover Part Number	Length mm	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm	mm				
G.5X.5LG6	17.5 x 15.2	5.1	C.5LG6	1800mm	6	120
G.5X1LG6	17.5 x 26.9	5.1	C.5LG6	1800mm	6	120
G.5X4LG6	17.5 x 104.1	7.9	C.5LG6	1800mm	6	60
G.75X.75LG6	23.6 x 20.8	7.9	C.75LG6	1800mm	6	120
G.75X1LG6	23.6 x 26.9	7.9	C.75LG6	1800mm	6	120
G.75X1.5LG6	23.6 x 39.9	7.9	C.75LG6	1800mm	6	120
G.75X2LG6	23.6 x 51.6	7.9	C.75LG6	1800mm	6	120
G1X1LG6	32.0 x 28.4	7.9	C1LG6	1800mm	6	120
G1X1.5LG6	32.0 x 41.1	7.9	C1LG6	1800mm	6	120
G1X2LG6	32.0 x 53.8	7.9	C1LG6	1800mm	6	120
G1X3LG6	32.0 x 79.2	7.9	C1LG6	1800mm	6	120
G1X4LG6	32.0 x 104.1	7.9	C1LG6	1800mm	6	60
G1.5X1LG6	44.5 x 28.4	7.9	C1.5LG6	1800mm	6	120
G1.5X1.5LG6	44.5 x 41.1	7.9	C1.5LG6	1800mm	6	120
G1.5X2LG6	44.5 x 53.8	7.9	C1.5LG6	1800mm	6	120
G1.5X3LG6	44.5 x 79.2	7.9	C1.5LG6	1800mm	6	120
G1.5X4LG6	44.5 x 104.1	7.9	C1.5LG6	1800mm	6	60
G2X1LG6	57.2 x 28.4	7.9	C2LG6	1800mm	6	120
G2X1.5LG6	57.2 x 41.1	7.9	C2LG6	1800mm	6	120
G2X2LG6	57.2 x 53.8	7.9	C2LG6	1800mm	6	120
G2X3LG6	57.2 x 79.2	7.9	C2LG6	1800mm	6	60
G2X4LG6	57.2 x 104.1	7.9	C2LG6	1800mm	6	60
G2X5LG6	57.2 x 129.5	9.5	C2LG6	1800mm	6	60
G2.5X3LG6	69.9 x 79.2	7.9	C2.5LG6	1800mm	6	120
G3X1LG6	82.6 x 28.4	7.9	C3LG6	1800mm	6	120
G3X2LG6	82.6 x 53.8	7.9	C3LG6	1800mm	6	120
G3X3LG6	82.6 x 79.2	7.9	C3LG6	1800mm	6	60
G3X4LG6	82.6 x 104.1	7.9	C3LG6	1800mm	6	60
G3X5LG6	82.6 x 129.5	9.5	C3LG6	1800mm	6	60
G4X1.5LG6	108.0 x 41.1	7.9	C4LG6	1800mm	6	120
G4X2LG6	108.0 x 53.8	7.9	C4LG6	1800mm	6	60
G4X3LG6	108.0 x 79.2	7.9	C4LG6	1800mm	6	60
G4X4LG6	108.0 x 104.1	7.9	C4LG6	1800mm	6	60
G4X5LG6	108.0 x 129.5	9.5	C4LG6	1800mm	6	60
G6X4LG6	158.8 x 105.4	7.9	C6LG6	1800mm	6	60

Colour Shown LG (Light Grey). Selected sizes also available in WH (White) and BL (Black).
Order number of feet required, in multiples of 1800mm or Standard Carton Quantity.

PANDUCT™ Type F - Slotted Wall Wiring Duct

Specifications

- Made of rigid PVC
- UL Recognised continuous use temperature: 50C°
- UL94 flammability rating of V-0
- Provided with mounting holes

Features & Benefits

- Narrow finger design provides closer spacing for use with higher density applications
- 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



Part Number	Duct Size W x H	Slot Width	Cover Part Number	Length mm	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm	mm				
F.5X.5LG6	17.5 x 15.2	5.1	C.5LG6	1800mm	6	120
F.5X1LG6	17.5 x 26.9	5.0	C.5LG6	1800mm	6	120
F.75X.75LG6	23.6 x 20.8	5.0	C.75LG6	1800mm	6	120
F.75X1.5LG6	23.6 x 39.9	5.0	C.75LG6	1800mm	6	120
F1X1LG6	32.0 x 28.4	5.0	C1LG6	1800mm	6	120
F1X1.5LG6	32.0 x 41.1	5.0	C1LG6	1800mm	6	120
F1X2LG6	32.0 x 53.8	5.0	C1LG6	1800mm	6	120
F1X3LG6	32.0 x 79.2	5.0	C1LG6	1800mm	6	120
F1X4LG6	32.0 x 104.1	5.0	C1LG6	1800mm	6	60
F1.5X1LG6	44.5 x 28.4	5.0	C1.5LG6	1800mm	6	120
F1.5X1.5LG6	44.5 x 41.1	5.0	C1.5LG6	1800mm	6	120
F1.5X2LG6	44.5 x 53.8	5.0	C1.5LG6	1800mm	6	120
F1.5X3LG6	44.5 x 79.2	5.0	C1.5LG6	1800mm	6	120
F1.5X4LG6	44.5 x 104.1	5.0	C1.5LG6	1800mm	6	60
F2X1LG6	57.2 x 28.4	5.0	C2LG6	1800mm	6	120
F2X1.5LG6	57.2 x 41.1	5.0	C2LG6	1800mm	6	120
F2X2LG6	57.2 x 53.8	5.0	C2LG6	1800mm	6	120
F2X3LG6	57.2 x 79.2	5.0	C2LG6	1800mm	6	60
F2X4LG6	57.2 x 104.1	5.0	C2LG6	1800mm	6	60
F2X5LG6	57.2 x 129.5	5.0	C2LG6	1800mm	6	60
F3X1LG6	82.6 x 28.4	5.0	C3LG6	1800mm	6	120
F3X2LG6	82.6 x 53.8	5.0	C3LG6	1800mm	6	120
F3X3LG6	82.6 x 79.2	5.0	C3LG6	1800mm	6	60
F3X4LG6	82.6 x 104.1	5.0	C3LG6	1800mm	6	60
F3X5LG6	82.6 x 129.5	5.0	C3LG6	1800mm	6	60
F4X2LG6	108.0 x 53.8	5.0	C4LG6	1800mm	6	60
F4X3LG6	108.0 x 79.2	5.0	C4LG6	1800mm	6	60
F4X4LG6	108.0 x 104.1	5.0	C4LG6	1800mm	6	60
F4X5LG6	108.0 x 129.5	5.0	C4LG6	1800mm	6	60

For other colours replace LG (Light Grey) with WH (White).

Order length required, in multiples of 1800mm or Standard Carton Quantity.

PANDUCT™ Type G Duct Wire Retainer

- Snaps into slots of Type G Duct to contain wiring when cover is removed



Part Number	Material	For Duct Width	For Duct Height	Std. Pkg. Qty.	Std. Ctn. Qty.
		mm	mm		
WR2-C	ABS	50.8	50.8 - 101.6	100	1000
WR3-C	ABS	76.2	50.8 - 101.6	100	1000
WR4-C	ABS	101.6	50.8 - 101.6	100	1000
WR5-C	ABS	Use with: 3X5, 4X5 or 6X4 Type G Duct	Use with: 3X5, 4X5 or 6X4 Type G Duct	100	1000

PANDUCT™ Type F Duct Wire Retainers/Labelling Device

- For use with Type F Duct to contain wiring when cover is removed
- FWR-C works with all Type F Duct sizes
- Can also be used as a labelling device



Part Number	Material	For Duct Width	Std. Pkg. Qty.	Std. Ctn. Qty.
		mm		
FWR-C	RIGID PVC	37.0 - 76.2	100	1000

Full length for use with 100mm wide duct. For smaller widths, break off segments at scorelines.

PANDUCT™ Type FS - Solid Wall Raceway

Specifications

- Made of rigid PVC
- UL Recognised continuous use temperature: 50C°
- UL94 flammability rating of V-0
- Supplied without mounting holes

Features & Benefits

- 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 “T”s and corners
- Specially formulated lead free material eliminates health concerns associated with PVC which contains lead



Part Number	Duct Size W x H	Cover Part Number	Length mm	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm				
FS.5X.5LG6NM	17.5 x 15.2	C.5LG6	1800mm	6	120
FS.5X1LG6NM	17.5 x 26.9	C.5LG6	1800mm	6	120
FS.75X.75LG6NM	23.6 x 20.8	C.75LG6	1800mm	6	120
FS1X1LG6NM	32.0 x 28.4	C1LG6	1800mm	6	120
FS1X1.5LG6NM	32.0 x 41.1	C1LG6	1800mm	6	120
FS1X2LG6NM	32.0 x 53.8	C1LG6	1800mm	6	120
FS1X3LG6NM	32.0 x 79.2	C1LG6	1800mm	6	120
FS1.5X1LG6NM	44.5 x 28.4	C1.5LG6	1800mm	6	120
FS1.5X1.5LG6NM	44.5 x 41.1	C1.5LG6	1800mm	6	120
FS1.5X2LG6NM	44.5 x 53.8	C1.5LG6	1800mm	6	120
FS1.5X3LG6NM	44.5 x 79.2	C1.5LG6	1800mm	6	120
FS2X1LG6NM	57.2 x 28.4	C2LG6	1800mm	6	120
FS2X1.5LG6NM	57.2 x 41.1	C2LG6	1800mm	6	120
FS2X2LG6NM	57.2 x 53.8	C2LG6	1800mm	6	120
FS2X3LG6NM	57.2 x 79.2	C2LG6	1800mm	6	60
FS3X1LG6NM	82.6 x 28.4	C3LG6	1800mm	6	120
FS3X2LG6NM	82.6 x 53.8	C3LG6	1800mm	6	120
FS3X3LG6NM	82.6 x 79.2	C3LG6	1800mm	6	60
FS3X4LG6NM	82.6 x 104.1	C3LG6	1800mm	6	60
FS3X5LG6NM	82.6 x 129.5	C3LG6	1800mm	6	60
FS4X2LG6NM	108.0 x 53.8	C4LG6	1800mm	6	60
FS4X3LG6NM	108.0 x 79.2	C4LG6	1800mm	6	60
FS4X4LG6NM	108.0 x 104.1	C4LG6	1800mm	6	60
FS4X5LG6NM	108.0 x 129.5	C4LG6	1800mm	6	60
FS6X4LG6NM	158.8 x 105.4	C6LG6	1800mm	6	60

Colour Shown LG (Light Grey). Selected sizes also available in WH (White) and BL (Black).
Order length required or Standard Carton Quantity.

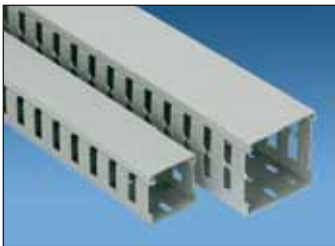
★ NEW! PANDUCT™ Type NNC - Halogen Free Metric Wiring Duct

Specifications

- Made of halogen free material
- UL Recognised continuous use temperature: 65C°
- Heat deflection temperature 264 psi of 102C° per ASTM D 648
- UL94 flammability rating of V-0
- Provided with mounting holes

Features & Benefits

- Halogen free material eliminates safety and environmental concerns associated with halogenated materials
- Suitable for applications in elevated temperature environments
- PANDUIT™ exclusive rounded edges will not cut hands or abrade wiring insulation
- Non-slip cover will not slide easily 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



Part Number	Duct Size W x H	Length	Std. Ctn. Qty.
	mm	M	M
NNC25X50LG2	24.6 x 47.8	2	20
NNC37X37LG2	37.1 x 35.8	2	20
NNC37X50LG2	37.1 x 47.8	2	20
NNC37X75LG2	37.1 x 72.4	2	20
NNC50X50LG2	49.5 x 47.8	2	20
NNC50X75LG2	49.5 x 72.4	2	10
NNC75X75LG2	74.7 x 72.4	2	10
NNC100X50LG2	99.6 x 47.8	2	10

Available in LG (Light Grey) only.

DO NOT allow cutting, tapping or cleaning fluids that contain hydrocarbons to come in contact with Type NNC Wiring Duct.

Order by total number of metres required, in Standard Carton Quantity

PANDUCT™ Installation Tools

- DCT easily cuts any PANDUCT™ duct & cover
- DNT-100 notches sidewalls to bottom scoreline for tees and corner junctions
- TNR installs and removes PANDUCT™ Nylon Rivets (NR1) quickly and easily
- DFCT easily removes duct fingers in tight places



DCT



DNT-100



TNR



NR1-C



DFCT

Part Number	Part Description	Std. Pkg. Qty.
PANDUCT™ Duct Cutting Tool (For use with all duct/raceway types)		
DCT	Hand held duct cutting tool.	1
Replacement Blade Kit (Includes Blade and Nylon Insert)		
DCT-BLD	Replacement blade and nylon insert.	1
Replacement Nylon Insert		
DCT-RI	Replacement nylon insert.	5
PANDUCT™ Duct Cutting Tool (For use with all duct/raceway types)		
DNT-100	Hand held sidewall notching tool.	1
PANDUCT™ Nylon Rivet Installation Tool		
TNR	Hand held nylon rivet installation tool.	1
PANDUCT™ Nylon Rivets		
NR1-C	Nylon rivet for use with TNR rivet tool.	100
PANDUCT™ Duct Finger Cutting Tool (For use with type G, F, and PE duct)		
DFCT	Hand held duct finger cutting tool.	1

Always use approved safety goggles when using any tools.

PANDUCT™ Accessories - Divider Wall

- Wiring duct divider wall can be mounted inside any type of PANDUCT™ PVC wiring duct to create multiple channels
- Simply install the divider wall base when mounting the duct and snap the divider wall onto the mounting base accessory (shown below)
- Both versions snap onto DB-C mounting base
- Divider wall heights 50mm and greater have a scoreline feature allowing sections to be removed leaving a smooth edge



D1H6 D1.5H6
D2H6 D3H6 D4H6



SD2H6 SD3H6 SD4H6



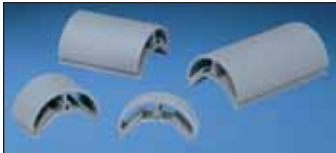
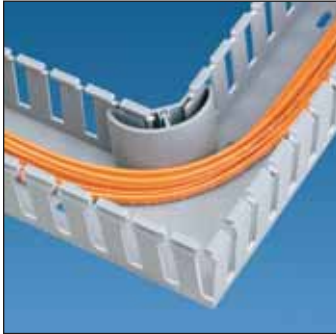
DB-C

Part Number	For Nominal Duct Height		Std. Pkg. Qty.	Std. Ctn. Qty.
	mm			
Divider Wall For use with Type AC, BC, & ASC Panel Trunking				
D1H6	25		6	120
D1.5H6	37		6	120
D2H6	50		6	120
D3H6	75		6	120
D4H6	100		6	120
Panduct Slotted Divider Wall				
SD2H6	50		6	120
SD3H6	75		6	120
SD4H6	100		6	120
Part Number	Used with Anchors		Std. Pkg. Qty.	Std. Ctn. Qty.
Panduct Divider Wall Mounting Base				
DB-C	PANDUIT™ NR1 or #8 or #10 screw		100	1000

NOTE: Use of 4 mounting bases per every 1800mm of divider wall is recommended. For ordering divider wall, order total length required in standard lengths or Standard Package Quantity.

PANDUCT™ Duct Corner Strip with 25mm Bend Radius Control

- Creates a strong rigid corner at wiring duct junctions
- 25mm bend radius on inside corner protects sensitive data cabling
- Available in five pre-cut sizes and 1800mm 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

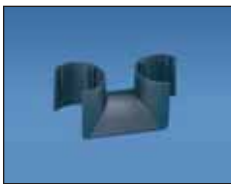


Part Number	Part Description	Material	For Duct Height	Std. Pkg. Qty.	Std. Ctn. Qty.
			mm		
1800mm lengths for use with all Types of PVC Wiring Duct					
CSC1LG6	Cut-to-size 1800mm corner strip with a 25mm bend radius.	PVC	All sizes (Cut to duct height)	6	120
Pre-cut Pieces for use with all Types of PVC Wiring Duct					
CSPC1LG-Q	25mm bend radius corner strip pre-cut for 25.4mm wall height	PVC	25.4	25	250
CSPC1.5LG-Q	25mm bend radius corner strip pre-cut for 38.1mm wall height	PVC	38.1	25	250
CSPC2LG-Q	25mm bend radius corner strip pre-cut for 50.8mm wall height	PVC	50.8	25	250
CSPC3LG-Q	25mm bend radius corner strip pre-cut for 76.2mm wall height	PVC	76.2	25	250
CSPC4LG-Q	25mm bend radius corner strip pre-cut for 101.6mm wall height	PVC	101.6	25	250

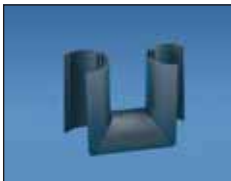
For other colours replace LG (Light Grey) with BL (Black) or WH (White).
 CSPC available in LG (Light Grey) only.
 Order number of metres required, or Standard Package Quantity.

Bend Radius Control Trumpet

- Available for 50.8mm and 101.60mm wall height Type G Slotted Wall Wiring Duct and Type FS Solid Wall Raceway
- New style TRC2HDBL is available for 50.8mm wall height Type H Hinged Cover Wiring Duct
- Provides method to transition cabling from wall mounted hardware to wiring duct channel
- Maintains complete 25.4mm bend radius control



TRC2BL



TRC4BL



TRC2HDBL

Part Number	Part Description	Material	For Duct Height	Std. Pkg. Qty.	Std. Ctn. Qty.
			mm		
TRC2BL	Bend radius control trumpet for exiting at the sidewall of 50.8mm wall heights of Type G or Type FS Wiring Duct channels	ABS	50.8	1	10
TRC4BL	Bend radius control trumpet for exiting at the sidewall of 101.6mm wall heights of Type G or Type FS Wiring Duct channels	ABS	101.6	1	10
TRC2HDBL	Bend radius control trumpet for exiting at the sidewall of 50.8mm wall heights of Type H Hinged Cover Wiring Duct channels. Black colour only.	ABS	50.8	1	10

Available in BL (Black) only

Notes

PAN-WAY™ NON-METALLIC SURFACE RACEWAY

PAN-WAY™ Non-Metallic Surface Raceways provide maximum flexibility for routing, protecting, concealing and terminating high performance copper, voice, video, fibre optic and power cabling. PANDUIT™ surface raceways are designed with attention to function and aesthetics to blend with any décor. PANDUIT surface raceway systems include transition fittings that facilitate seamless integration of one PANDUIT surface raceway system to another. PANDUIT Surface Raceway Systems work with all PANDUIT MINI-COM™ Modules for complete connectivity possibilities.

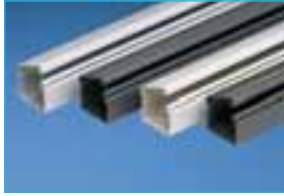


- Aesthetically pleasing
- Lightweight
- Tamper resistant
- Bend radius control
- Resists dents and conceals scratches and chips
- Ease of modifications and additions
- Lowest installed cost

PANDUIT surface raceway provides a variety of choices when selecting data and electrical terminations. All PANDUIT surface raceways include a full complement of fittings that are designed to maintain the proper bend radius control required for high performance copper and fibre optic cabling systems. All of the raceways accept either NEMA 70mm standard screw-on faceplates or superior PAN-WAY™ Snap-on Faceplates. PANDUIT surface raceway systems work with all PANDUIT MINI-COM™ Modules, for complete connectivity possibilities.

PAN-WAY™ OFFICE FURNITURE RACEWAY

PAN-WAY™ Office Furniture Raceway is a one-piece single channel system designed to route data cabling along the top of office furniture partitions. Outlets can be positioned at any point along the partition at desk level or in the corner at the intersection of two partitions. Office Furniture Raceway has a tamper resistant closure design, which protects sensitive cabling from accidental damage and discourages unauthorised access, yet the system is accessible by a qualified installer for moves, adds and changes.



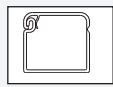
- **Designed for desktop terminations which utilise the typically unused area of the cubicle**
- **Fittings meet TIA/EIA bend radius requirements preventing cable performance degradation, yet maintain original aesthetic "squared corner" styling of furniture**
- **Designed to work with major office furniture manufacturers panels (such as Steelcase, Herman Miller and others)**
- **Robust design includes a one-piece hinge and tamper resistant closure design which increases product stability and reduces inadvertent or unauthorised access to data cabling**
- **Designed for use with PANDUIT™ connectivity; also accepts common manufacturers' connectivity with use of a NEMA standard 70mm faceplate or module frame**

The system includes a full complement of fittings, accessories, and termination options. PAN-WAY™ Office Furniture Raceway is available in four popular colours to blend with most office furniture systems and creates a virtually invisible cost effective routing solution.

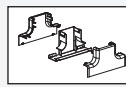
Office Furniture Raceway Roadmap



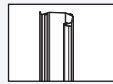
NOTE: Office Furniture Raceway is designed to blend with its environment. Shown in White on Office Grey Slate furniture for illustration purposes only.



1 OFR20**6 — Office Furniture Raceway



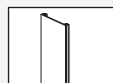
L OFR20MPT** — Mid Panel Tee Fitting



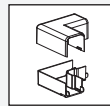
A OFCR70**6 — Corner Raceway Base



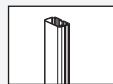
M OFR20WE** — Wall Entrance Fitting



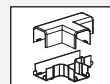
B OFCRC70**6 — Corner Raceway Cover



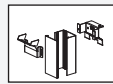
N OFR20RA** — Right Angle Fitting



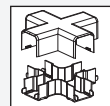
C OFVR5**6 — Vertical Raceway



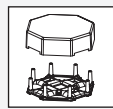
O OFR20T** — Tee Fitting



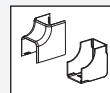
D OFR20CP**8 — Communication Pole



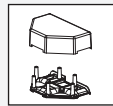
P OFR20CR** — Cross Fitting



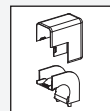
E OFR20OFCR70**4 — Four Cubicle Drop Fitting



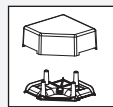
Q OFR20IC** — Inside Corner Fitting



F OFR20OFCR70**2 — Two Cubicle Drop Fitting



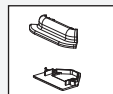
R OFR20OC** — Outside Corner Fitting



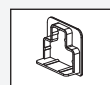
G OFR20OFCR70**1 — One Cubicle Drop Fitting



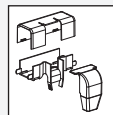
S OFR20CC** — Coupler Fitting



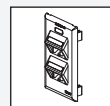
H OFCR70EC** — End Cap Fitting



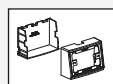
T OFR20EC** — End Cap Fitting



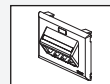
J OFR20SO** — Spill Over Fitting



U OF70FV4** — Vertical Sloped Communication Snap-on Faceplate



K OFR20DMB** — Desk Mount Box

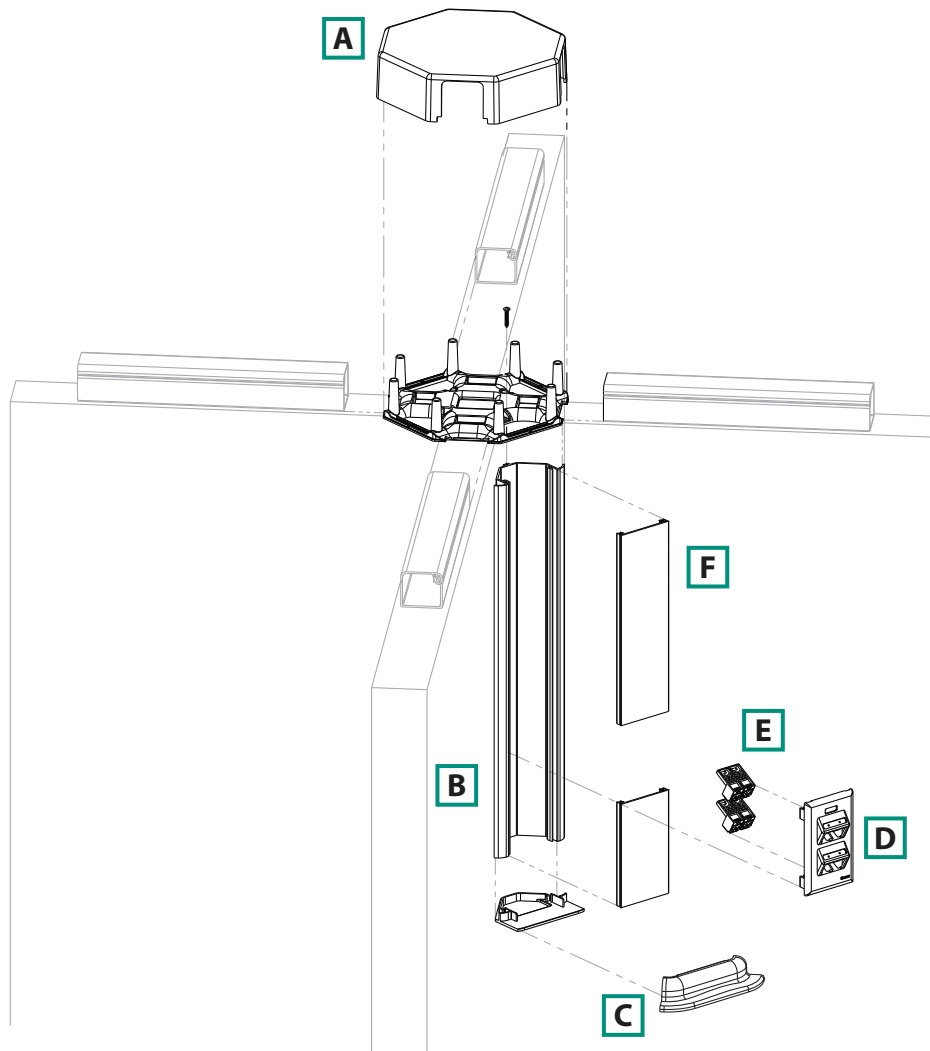


V OF70FH4** — Horizontal Sloped Communication Snap-on Faceplate

Office Furniture Configurations

Exploded view 1

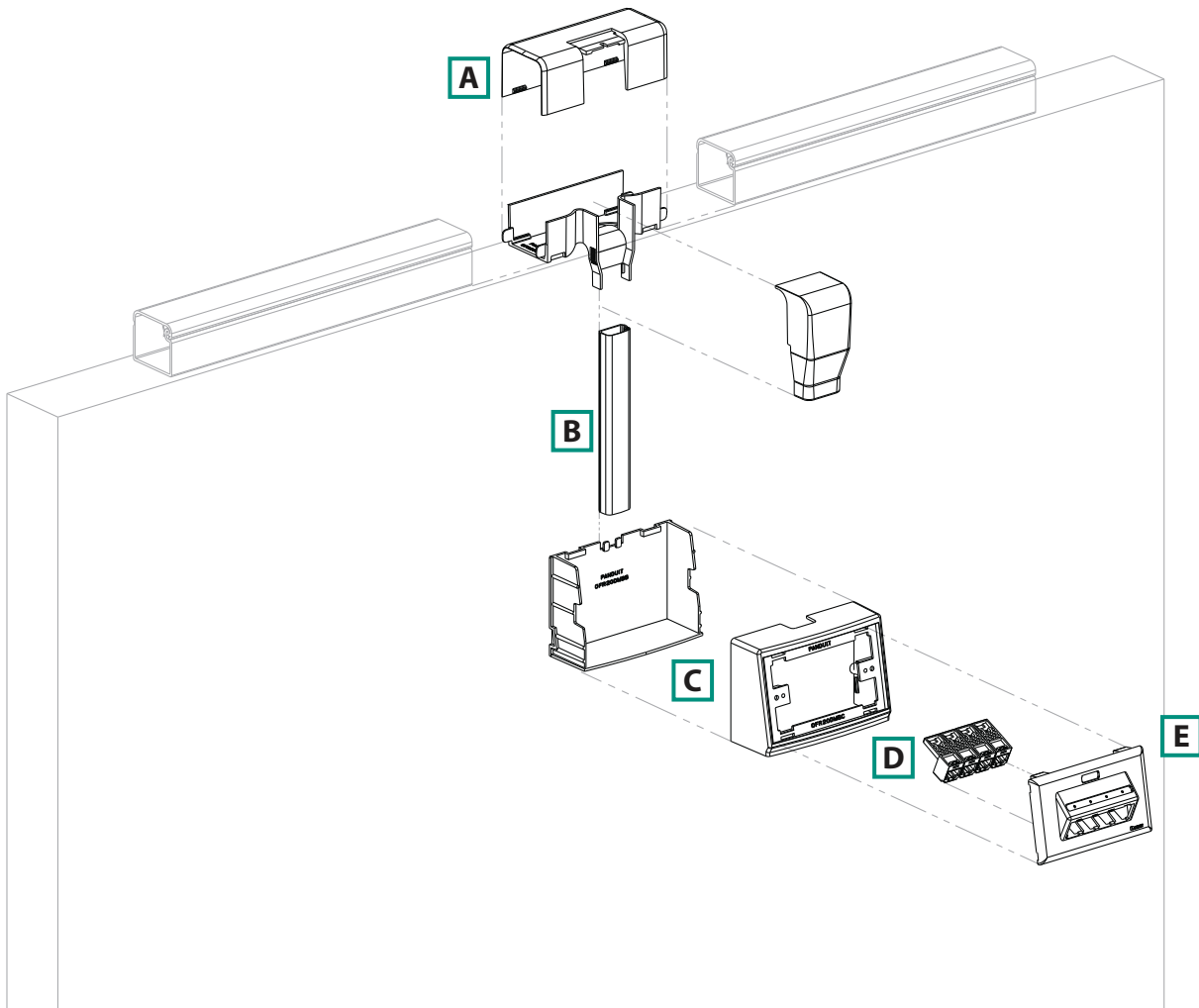
	Components Required	See page
A.	OFR20OFCR70**4 = Four Cubicle Drop Fitting.	258
B.	OFCR70**6 = Corner Raceway Base.	257
C.	OFCR70EC = End Cap Fitting.	258
D.	OF70FV4 = Vertical Sloped Communication Snap-on Faceplate.	259
E.	MINI-COM™ Modules.	19 - 30
F.	OFCRC70**6 = Corner Raceway Cover.	257



Office Furniture Configurations (continued)

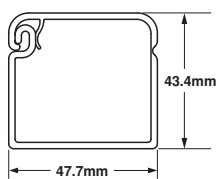
Exploded view 2

	Components Required	See page
A.	OFR20SO** = Spill Over Fitting.	258
B.	OFVR5**6 = Vertical Raceway.	257
C.	OFR20DMB = Desk Mount Box.	258
D.	MINI-COM™ Modules.	19-30
E.	OF70FH4** = Horizontal Sloped Communication Snap-on Faceplate.	259



UL **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 labelling 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 47.75mm and 58.42mm
- 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 = 1490.31mm²



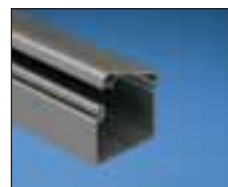
Office Beige (OB)



Office Slate (OG)



Office Grey (OS)



Medium Tone (MT)



OFR20

Part Number	Part Description	Raceway Size	Colour ‡	Length (ft)	Std. Pkg. Qty.	Std. Ctn. Qty.
OFR20OB6	Office Furniture Raceway. One piece single channel low voltage raceway with adhesive tape backing for data cable routing along top of modular furniture partitions. Available in 1800mm lengths.	47.7mm x 43.4mm	Office Beige	1800	6	48

‡ For other colours, replace OB (Office Beige) with OS (Office Slate), OG (Office Grey) or MT (Medium Tone).
Order number of feet required in multiples of standard carton quantity.

UL **PAN-WAY™ Office Furniture Raceway Fittings**

- Office Furniture Raceway fittings have been designed to maintain the TIA/EIA required 25.4mm minimum bend radius for high performance copper and fibre optic cabling systems



OFCR70



OFCRC70



OFVR5



OFR20CP

Part Number	Part Description	Labels Required	Colour ‡	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 1800mm lengths.	—	Office Beige	6	48
OFCRC70OB6	Office Furniture Corner Raceway Cover. Available in 1800mm lengths.	—	Office Beige	6	48
OFVR5OB6	Office Furniture Vertical Raceway. One piece single channel raceway used to connect OFR20**6 to desk mount box (OFR20DMB**) and must be used with OFR20SO** or OFR20DSO**. Available in 1800mm lengths.	—	Office Beige	6	120
OFR20CPOB8	Communication Pole. Allows for data cable entry into Office Furniture Raceway from suspended ceiling. 2438.4mm pole allows maximum 2133.6mm 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	0

‡ For other colours, replace OB (Office Beige) with OS (Office Slate), OG (Office Grey) or MT (Medium Tone).
** Computer printable labels found on pages 349 - 356.



PAN-WAY™ Office Furniture Raceway Fittings (continued)



OFR20OFCR704**



OFR20OFCR702**



OFR20OFCR701**



OFRCR70EC



OFR20SO



OFR20DSO



OFR20DMB



OFR20MPT



Part Number	Part Description	Labels Required	Colour ‡	Std. Pkg. Qty.	Std. Ctn. Qty.
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 25.4mm 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 25.4mm 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 25.4mm minimum bend radius of cabling. Supplied with adhesive tape.	—	Office Beige	1	10
OFRCR70ECOB	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 25.4mm minimum bend radius of cabling and works with various panel widths between 47.7mm - 58.42mm. 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

‡ For other colours, replace OB (Office Beige) with OS (Office Slate), OG (Office Grey) or MT (Medium Tone).

** Computer printable labels found on pages 349 - 356.



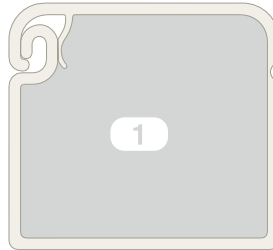
PAN-WAY™ Office Furniture Raceway Fittings (continued)

Part Number	Part Description	Labels Required	Colour ‡	Std. Pkg. Qty.	Std. Ctn. Qty.
 OFR20WE	 OFR20RA	—	Office Beige	1	10
 OFR20T	 OFR20CR				
 OFR20IC	 OFR20OC	—	Office Beige	1	10
 OFR20CC	 OFR20LC				
 OFR20EC	 OF70FH2	1-One Port 1-Two Port	Office Beige	1	10
 OF70FV2	 OF70FH4				
 OF70FV4	 T70SDB-X	1-One Port 2-Two Port	Office Beige	1	10
		—	Grey	10	—

‡ For other colours, replace OB (Office Beige) with OS (Office Slate), OG (Office Grey) or MT (Medium Tone).
 ** Computer printable labels found on pages 349 - 356.

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 = 1490.32mm²

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.

MAX for Power cable fill — The maximum of electrical cables based on UL temperature rise test.

Raceway Type & Configuration	Fill Area (mm ²)	Data Grade Cable		Data Grade Cable		Audio/Video Cable		Fibre Optic Cable	
		24 AWG/UTP CM		24 AWG/UTP CM		RG6		2 Strand	
		Cat 5e (4pr)		Cat 6 (4pr)		DIA. = 6.99mm		DIA. = 4.4mm	
		DIA. = 5.51mm		DIA. = 6.35mm					
		FILL		FILL		FILL		FILL	
		SPEC (40%)	MAX (60%)	SPEC (40%)	MAX (60%)	SPEC (40%)	MAX (60%)	SPEC (40%)	MAX (60%)
1. OFR20: No Devices.	1490.32	24	37	18	28	15	23	38	57

PAN-WAY™ COVE RACEWAY



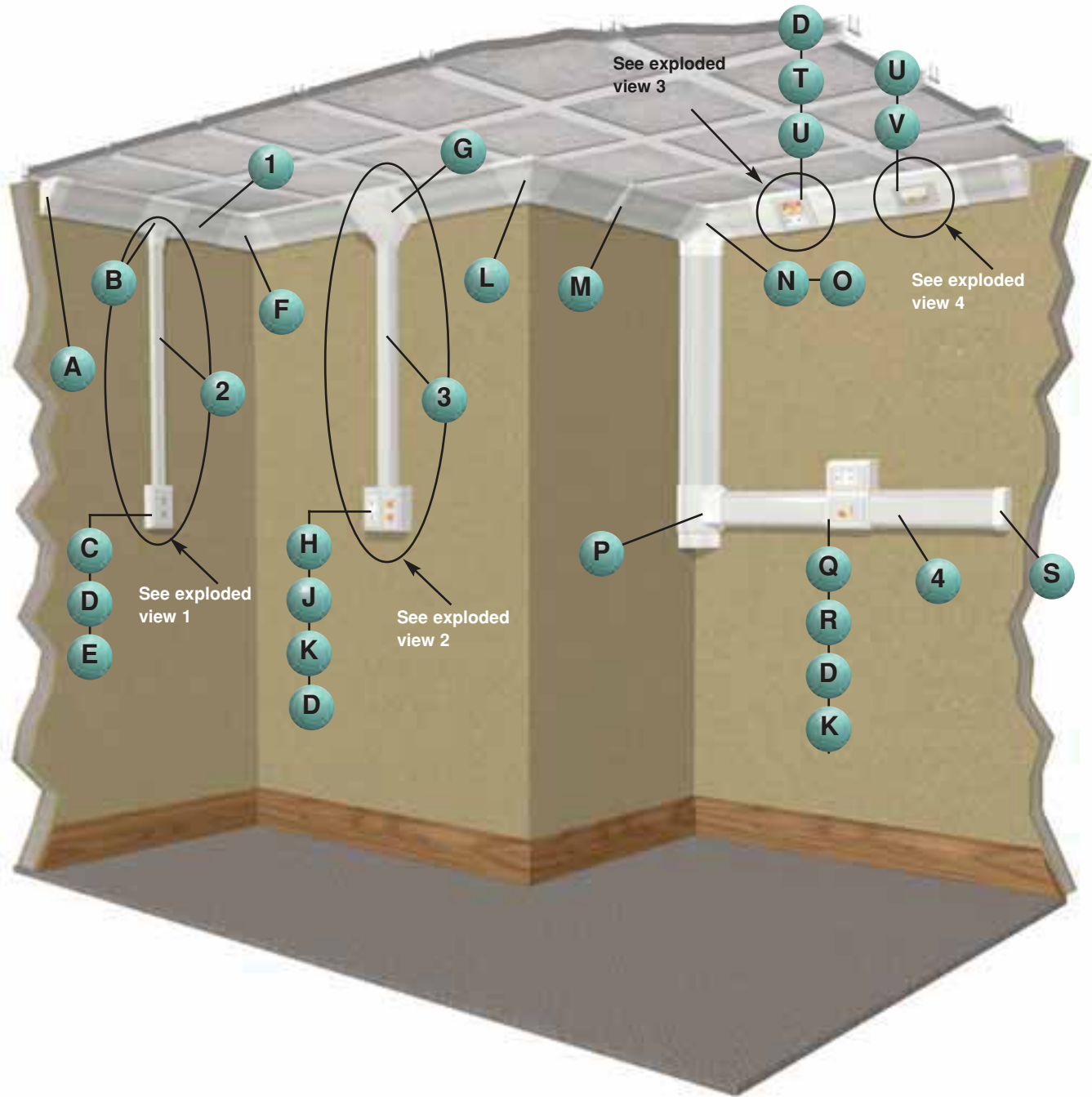
PAN-WAY™ Cove Raceway is a full line of NEC and TIA/EIA compliant raceway, which has the appearance of architectural moulding; that allows you to route, conceal, protect and terminate copper, voice, video, fibre optic or power cabling. This offering adds elegance to any room or work area by softening the horizontal angles between the wall and ceiling or the vertical angles between two walls.

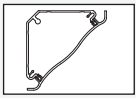


- **UL & CSA rated 600V**
- **Bend radius control is maintained throughout the entire system as required by TIA/EIA-568-B and 569-B**
- **Product mounts high out of reach for increased tamper resistance**
- **Divided channel system allows for routing and terminations of both power and data cabling**
- **Raceway and fitting covers may be painted to match any décor**

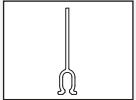
PAN-WAY™ Cove Raceway includes a full complement of fittings and transitions easily to other *PANDUIT™* raceway such as LD, LDP, LD2P10, T-45 and T-70.

Cove Raceway Roadmap





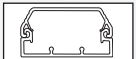
1 WCM35BIW, WCM35CIW – Cove Raceway Base and Cover



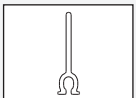
1 WCM35DW – Cove Raceway Divider Wall



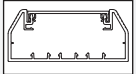
2 LDP10** – LDP10 Raceway



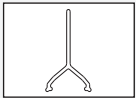
3 T45B**, T45C** – T-45 Raceway Base and Cover



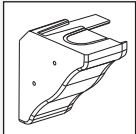
3 T45DW – T-45 Raceway Divider Wall



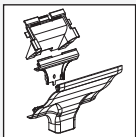
4 T70B**, T70C** – T-70 Raceway Base and Cover



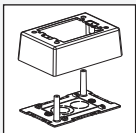
4 T70DW – T-70 Raceway Divider Wall



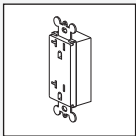
A WCM35ECIW – Cove Raceway End Cap



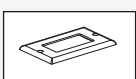
B WCM35TR10IW – Cove Raceway Low Profile Transition Fitting for LD/LDP10 Raceway



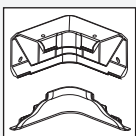
C JBP1** – Power Rated Single Gang Two-Piece Box



D ERU20** – 20A Rectangular Outlet



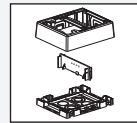
E CPG** – Single Gang Rectangular Electrical/Communication Screw-on Faceplate



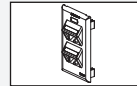
F WCM35ICIW – Cove Raceway Inside Corner Fitting



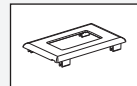
G WCM35TRIW – Cove Raceway Transition Fitting for T-45 and LD Series Raceways



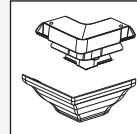
H JBP2FS** – FAST-SNAP™ Double Gang Power Rated Surface Mount Outlet Box



J UIT70FV4** – ULTIMATE ID™ Sloped Vertical Snap-on Faceplate



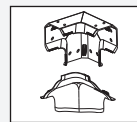
K T70PG** – Single Gang Rectangular Electrical/Communication Snap-on Faceplate



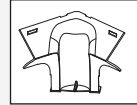
L WCM35OCIW – Cove Raceway Outside Corner Fitting



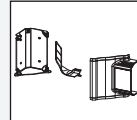
M WCM35CCIW – Cove Raceway Cover Coupler Fitting



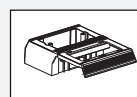
N WCM35TIW – Cove Raceway Tee Fitting



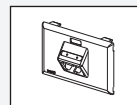
O WCM35TI – Cove Raceway Tee Fitting Insert



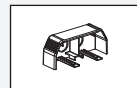
P WCM35TR70IW – Cove Raceway Low Profile Transition Fitting for T-70 Raceway



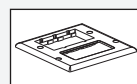
Q T70WC2** – T-70 WORKSTATION OUTLET CENTER™ Offset Box for Snap-on Faceplates



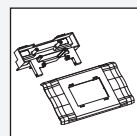
R UIT70FH2** – ULTIMATE ID™ Horizontal Snap-on Faceplate



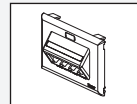
S T70EC** – T70 Raceway End Cap Fitting



T FP2RC – Double Gang Rectangular Electrical and Communication Faceplate



U WCM35DBFIW – Cove Raceway Device Box and Faceplate Adapter

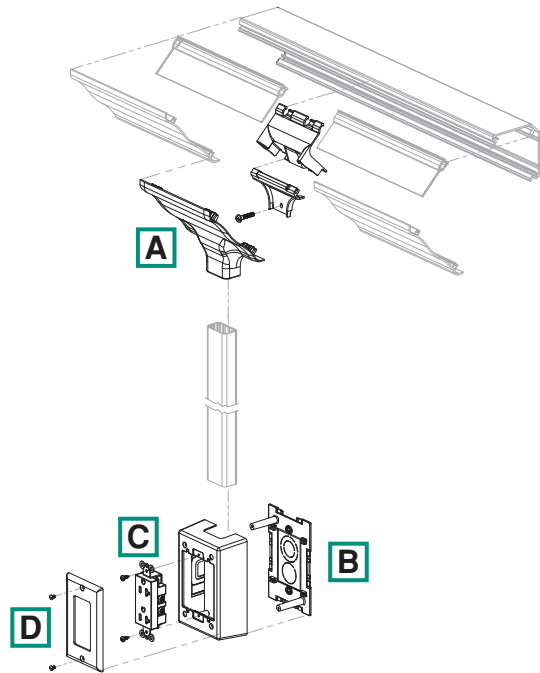


V UIT70FH4** – ULTIMATE ID™ Horizontal Snap-on Faceplate

Cove Configurations

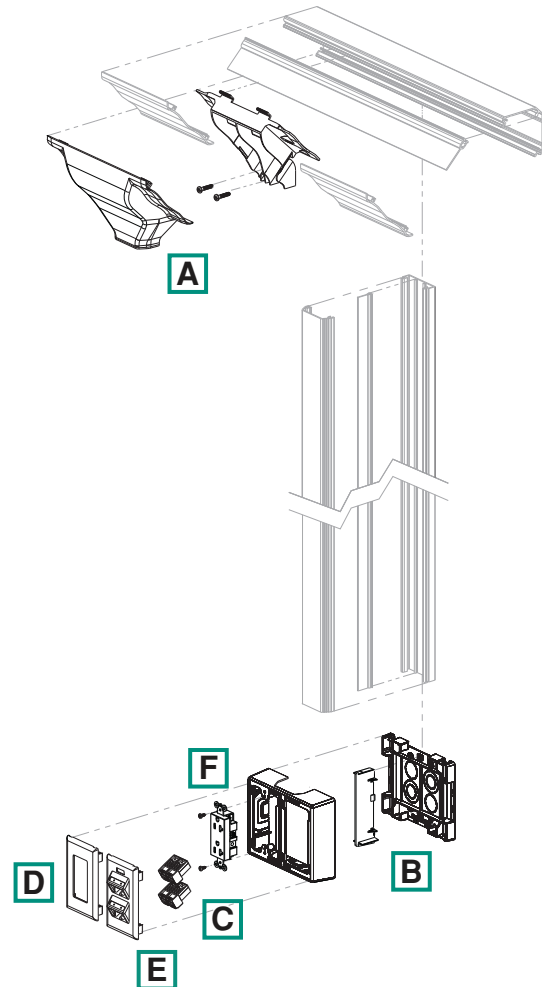
Exploded view 1

Components Required	
A.	WCM35TR10 = Cove Raceway Low Profile Transition Fitting for LD/LDP10 Raceway.
B.	JBP1 = Power Rated Single Gang Two-Piece Box.
C.	ERU20 = 20A Rectangular Electrical Outlet (screws included).
D.	CPG = Screw-on Single Gang Rectangular Faceplate.



Exploded view 2

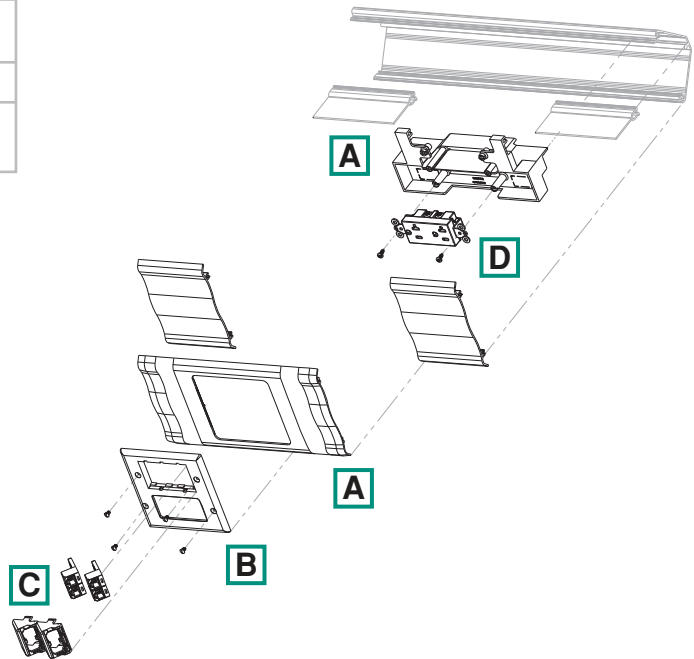
Components Required	
A.	WCM35TR = Cove Raceway Transition Fitting.
B.	JBP2FS = <i>FAST-SNAP™</i> Double Gang Power Rated Surface Mount Outlet Box.
C.	<i>MINI-COM™</i> Modules.
D.	T70PG = Single Gang Rectangular Electrical/Communication Snap-on Faceplate.
E.	UIT70FV4 = <i>ULTIMATE ID™</i> Sloped Vertical Snap-on Faceplate.
F.	ERU20 = 20A Rectangular Electrical Outlet (screws included).



Cove Configurations (continued)

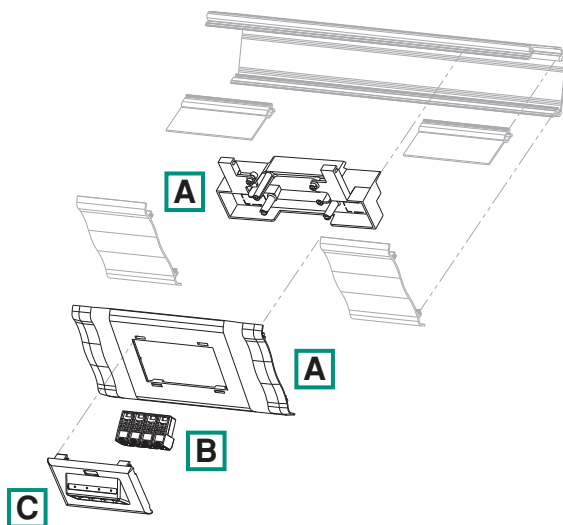
Exploded view 3

Components Required	
A.	WCM35DBF = Cove Raceway Device Box and Faceplate Adapter.
B.	FP2RC = PAN-WAY™ Classic Series Faceplates for Power and Communication.
C.	MINI-COM™ Modules.
D.	ERU20 = 20A Rectangular Electrical Outlet (screws included).



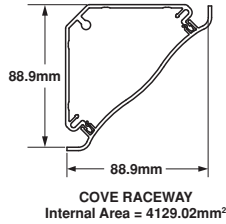
Exploded view 4

Components Required	
A.	WCM35DBF = Cove Raceway Device Box and Faceplate Adapter.
B.	MINI-COM™ Modules.
C.	UIT70FH4 = ULTIMATE ID™ Horizontal Snap-on Faceplate.



UL **SA LISTED** **SP** **PAN-WAY™ Cove Raceway System**

- UL & CSA rated 600V; meets UL5A and CSA C22.2 No. 62.1-03 standards
- Bend radius control is maintained throughout the entire Cove Raceway System as required by TIA/EIA-568-B and 569-B
- Tamper resistant
- Transitions to *PANDUIT™* T-70, T-45, and LD Profile Raceways
- Cove raceway and fittings may be painted to blend with any decor
- Supplied with pre-punched mounting holes



WCM35BIW8



WCM35CIW8



WCM35DW8















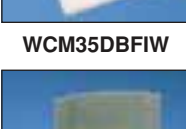
Part Number	Part Description	Raceway Size	Colour ‡	Length (ft)	Std. Ctn. Qty.
Cove Raceway Base					
WCM35BIW8	Cove Raceway Base is available in 203.2mm lengths and is used for mounting in the horizontal corner between the ceiling and wall or vertical corner between walls.	88.9 x 88.9mm	Off White	8	64
Cove Raceway Cover					
WCM35CIW8	Cove Raceway Cover available in 203.2mm lengths.	—	Off White	8	64
Cove Raceway Divider Wall					
WCM35DW8	Cove Raceway Divider Wall. Snaps onto rails in Cove Raceway Base to create separate channels. Must use wire retainers to ensure channel separation per UL/CSA. Available in 203.2mm lengths.	—	Grey	8	64

‡ All parts available in IW (Off White) only except for WCM35DW8 which is available in Grey only. Order number of feet required in multiples of standard carton quantity. Order raceway base and cover separately.



PAN-WAY™ Cove Raceway Fittings

- Cove raceway 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

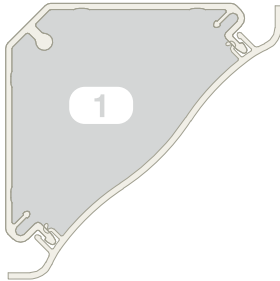
		Part Number	Part Description	Colour ‡	Std. Pkg. Qty.	Std. Ctn. Qty.
		WCM35CCIW-X	WCM35ICIW			
		WCM35CCIW-X	Cover Coupler Fittings. Used to join two pieces of Cove Raceway Cover together.	Off White	10	100
		WCM35ICIW	Inside Corner Fitting. Used to join Cove Raceway at inside corners. Maintains a minimum 25.4mm bend radius of cabling.	Off White	1	10
		WCM35OCIW	WCM35TIW			
		WCM35OCIW	Outside Corner Fitting. Used to join Cove Raceway at outside corners. Maintains a minimum 25.4mm bend radius of cabling.	Off White	1	10
		WCM35TIW	Tee Fitting. Used to join sections of Cove Raceway to form a "tee" junction. Maintains a minimum 25.4mm bend radius of cabling.	Off White	1	10
		WCM35TI	WCM35ECIW			
		WCM35TI	Tee Fitting Insert. Mounts inside Cove Raceway tee fitting to maintain channel separation at tee junctions. Maintains a minimum 25.4mm bend radius of cabling.	Grey	1	10
		WCM35ECIW	End Cap Fitting. Used to terminate or enter Cove Raceway. Includes breakouts for 12.70mm and 19.05mm conduit.	Off White	1	10
		WCM35TRIW	WCM35TR5IW			
		WCM35TRIW	Transition Fitting. Used to transition from Cove Raceway to PAN-WAY™ T-45 Raceway or LD Series Raceways.	Off White	1	10
		WCM35TR5IW	Low Profile Transition Fitting. Used to transition from Cove Raceway to LD/LDP5.	Off White	1	10
		WCM35TR10IW	WCM35TR70IW			
		WCM35TR10IW	Low Profile Transition Fitting. Used to transition from Cove Raceway to LD/LDP10.	Off White	1	10
		WCM35TR70IW	Low Profile Transition Fitting. Used to transition from Cove Raceway to T-70.	Off White	1	10
		WCM35DBFIW	WCM35BFIW			
		WCM35DBFIW	Device Box and Faceplate Adapter. Used in Cove Raceway to install single or double gang power and/or data devices in-line. Will accept snap-on or screw-on single gang faceplate or screw-on double gang faceplate. NOTE: Will accept GFCI or TVSS outlets in single gang configuration only.	Off White	1	10
		WCM35BFIW	Backfeed Fitting. Inserts allow cable entry and exit through the back of the raceway and conduit. Breakouts include 12.7mm, 19.05mm and 25.4mm.	Off White	1	10
		WCM35WR-X	WCM35WR-X			
		WCM35WR-X	Wire Retainer. Holds wires in place. Will not interfere with cover installation.	Grey	10	0

‡ All parts available in IW (Off White) only except WCM35WR-X and WCM35TI which are available in Grey only.

WCM35WR-X

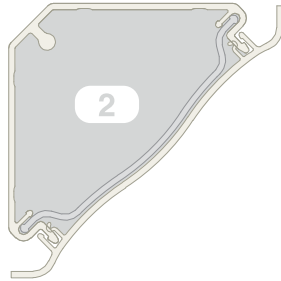
Cable Fill Capacities for Cove Raceway

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.



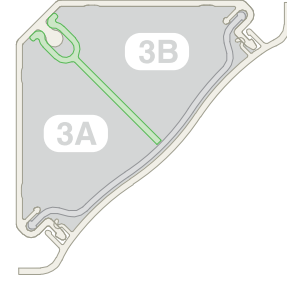
A = 3484mm²

Cable fill #1: Open channel without Devices.



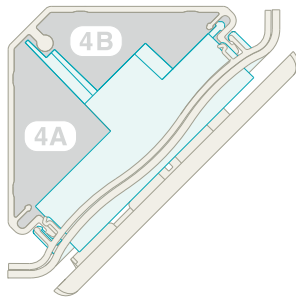
A = 3225.8mm²

Cable fill #2: Open channel with Wire Retainer.



3A = 1548mm² 3B = 1548mm²

Cable fill #3: Divided channel (power and data) with Wire Retainer and Divider Wall.



A = 1032.27mm² A = 903.22mm²

Cable fill #4: Divided Channel (power and data) with Device Box and Faceplate.



A = 1161.29 mm² A = 1548.38 mm²

Cable fill #5: Divided Channel (power and data) with Low Profile Transition Insert.

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.

MAX for Power cable fill — The maximum of electrical cables based on UL temperature rise test.

Raceway Type & Configuration	Fill Area mm ²	Electrical Cables			Data Grade Cable	Data Grade Cable	Audio/Video		Fibre Optic Cable			
		14 AWG	12 AWG	10 AWG	24 AWG/UTP CM	24 AWG/UTP CM	RG6		2 Strand			
		THHN/T90			Cat 5e (4pr)	Cat 6 (4pr)	DIA. = 7mm		DIA. = 4.4mm			
		2.7mm	3mm	3.9mm	DIA. = 5.5mm	DIA. = 6.35mm	DIA. = 7mm		DIA. = 4.4mm			
		FILL			FILL	FILL	FILL		FILL			
MAX (UL Temp Rise Test)	MAX (UL Temp Rise Test)	MAX (UL Temp Rise Test)	SPEC (40%)	MAX (60%)	SPEC (40%)	MAX (60%)	SPEC (40%)	MAX (60%)	SPEC (40%)	MAX (60%)		
1. WCM35: No Devices.	3484	50	40	30	58	87	44	66	29	43	89	134
2. WCM35: Using Wire Retainer – No Devices.	3225.8	50	40	30	54	81	41	61	26	40	83	124
3A. WCM35: Power and data using Wire Retainer and Divider Wall.	1548	—	—	—	25	38	19	28	13	19	39	58
	1548	30	25	20	—	—	—	—	13	19	22	—
4A. WCM35: Power and data using DBF.	1032.27	—	—	—	17	25	13	19	10	16	26	35
	903.22	25	25	20	—	—	—	—	—	—	—	—
5A. WCM35: Power and data using Low Profile Transition Insert.	1161.29	25	25	20	19	29	14	22	12	18	29	44
	1548.38	—	—	—	25	38	19	28	13	19	39	58

PAN-WAY™ TG-70 NON-METALLIC SURFACE RACEWAY



PAN-WAY™ TG-70 Non-Metallic Surface Raceway is a multi-channel raceway, which provides a solution for routing copper, fibre optic and/or power cabling when maximum cable capacity is required.

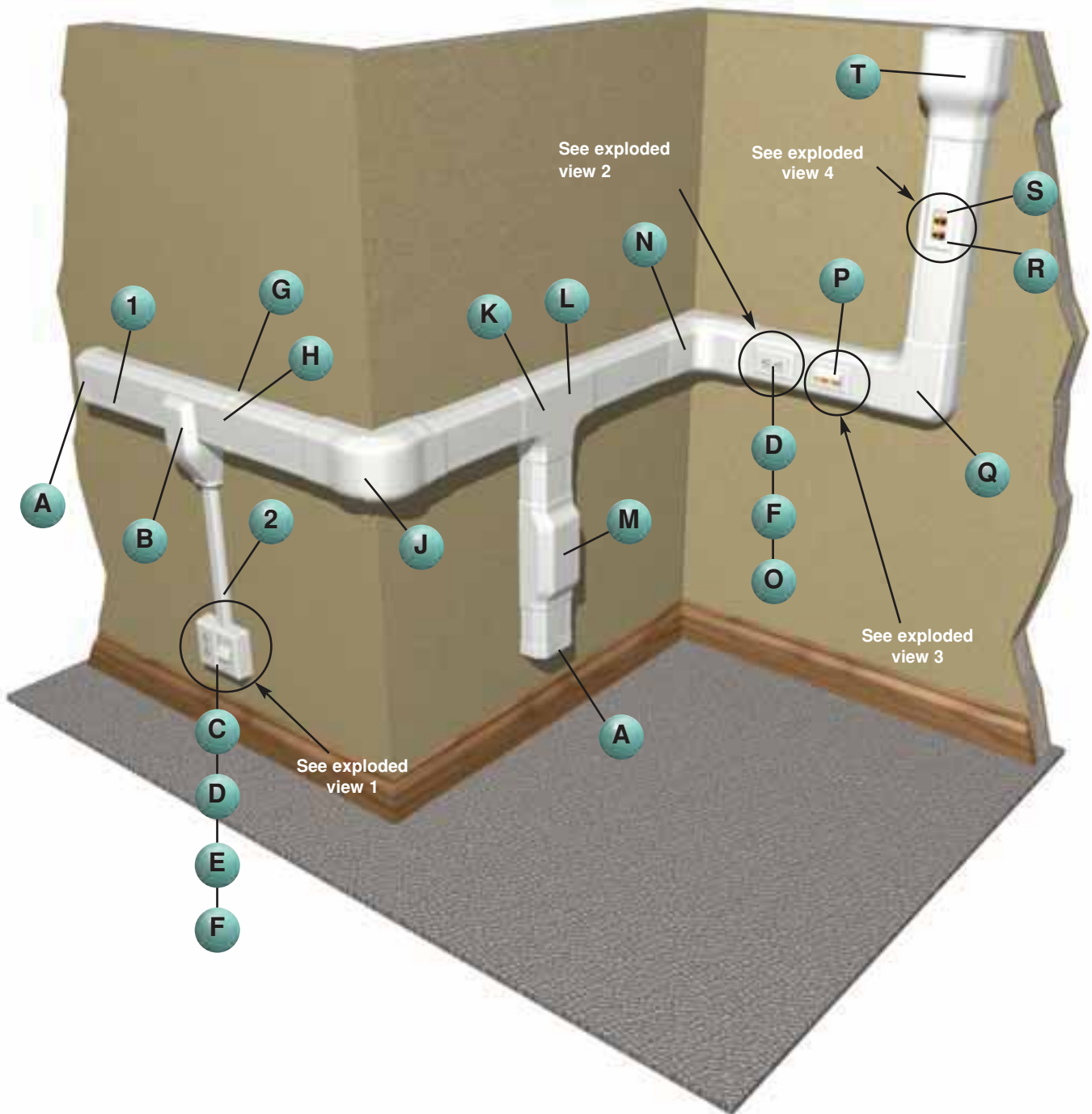


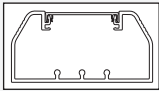
- Large raceway channel provides maximum capacity
- Fittings maintain 40mm bend radius control
- Multi-channel two-piece design
- Aesthetically pleasing
- Lightweight
- Tamper resistant



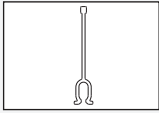
The TG-70 Raceway System consists of raceway base and cover, fittings, termination hardware and accessories. PAN-WAY™ TG-70 Raceway can mount NEMA standard screw-on faceplates or superior PAN-WAY™ Snap-On Faceplates directly to the channel. Fittings for TG-70 are available to transition to PAN-WAY™ T-45 and LD Raceway.

TG-70 Raceway Roadmap





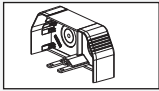
1 TG-70** — TG-70 Raceway Base and Cover



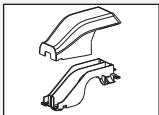
1 TGDW — TG-70 Raceway Divider Wall



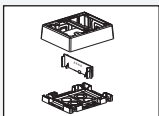
2 LD2P10** — Raceway



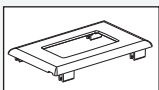
A TGEC** — TG-70 End Cap



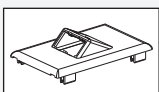
B TGTR** — TG-70 Transition Fitting



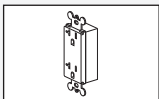
C JBP2FS** — *FAST-SNAP*™ Double Gang Power Rated Surface Mount Box



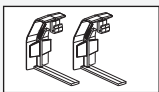
D T70PG** — Single Gang Rectangular Electrical/Communication Snap-on Faceplate



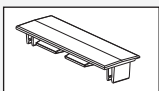
E T70FV2** — Vertical Sloped Communication Snap-on Faceplate



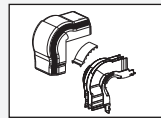
F ERU20** — 20A Rectangular Electrical Outlet



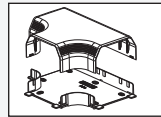
G TG70BC** — TG-70 Base Couplers



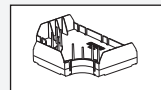
H T70CC** — T-70 Cover Couplers



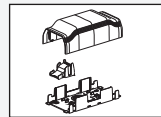
J TGOC** — TG-70 Outside Corner Fitting



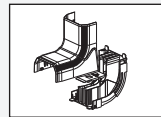
K TGT** — TG-70 Tee Fitting



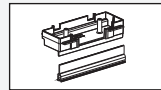
L TGTD — TG Tee Divider



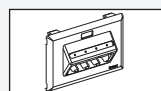
M TGBF** — TG-70 Backfeed Fitting



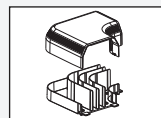
N TGIC** — TG-70 Inside Corner Fitting



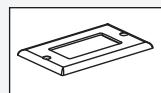
O TG70HB3-X — TG-70 Hanging Box with Divider Wall



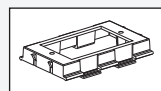
P UIT70FH4** — *ULTIMATE ID*™ Sloped Horizontal Snap-on Faceplate



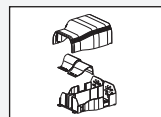
Q TGRA** — TG-70 Right Angle Fitting



R CPG** — Single Gang Rectangular Power and Communication Faceplate



S T70DB-X — T-70 Device Bracket

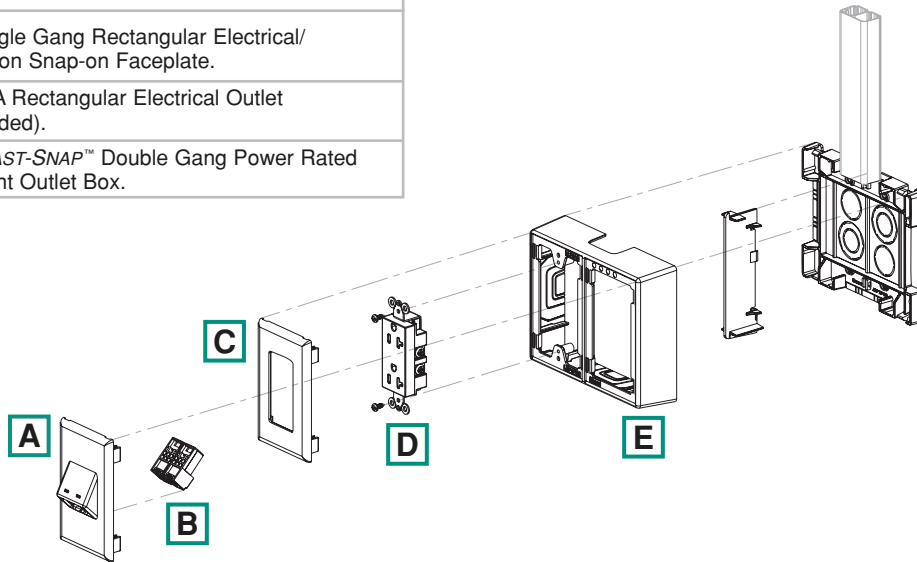


T TGEE** — TG-70 Entrance End Fitting

TG-70 Configurations

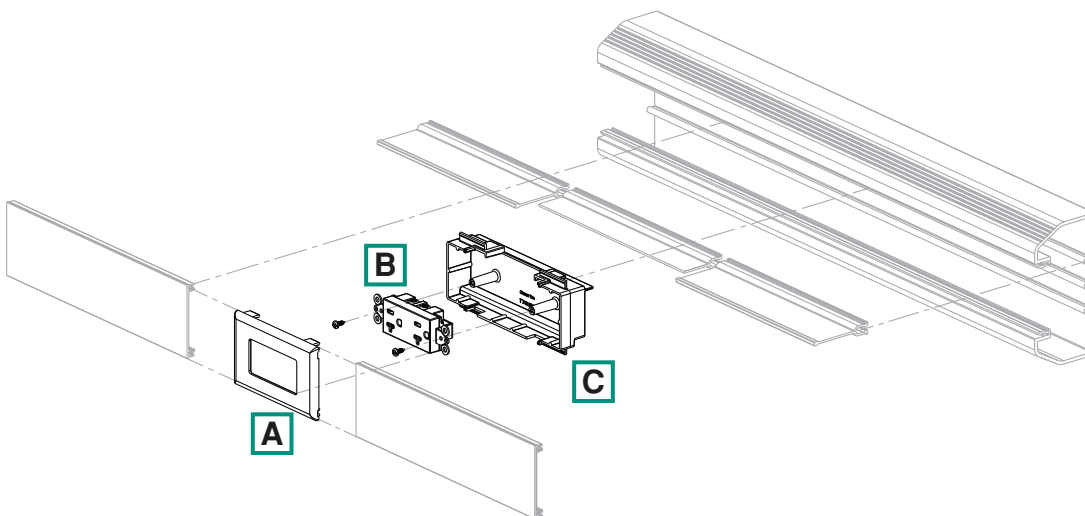
Exploded view 1

Components Required	
A.	T70FV2 = Vertical Sloped Communication Snap-on Faceplate.
B.	MINI-COM™ Modules.
C.	T70PG = Single Gang Rectangular Electrical/Communication Snap-on Faceplate.
D.	ERU20 = 20A Rectangular Electrical Outlet (screws included).
E.	JBP2FS = FAST-SNAP™ Double Gang Power Rated Surface Mount Outlet Box.



Exploded view 2

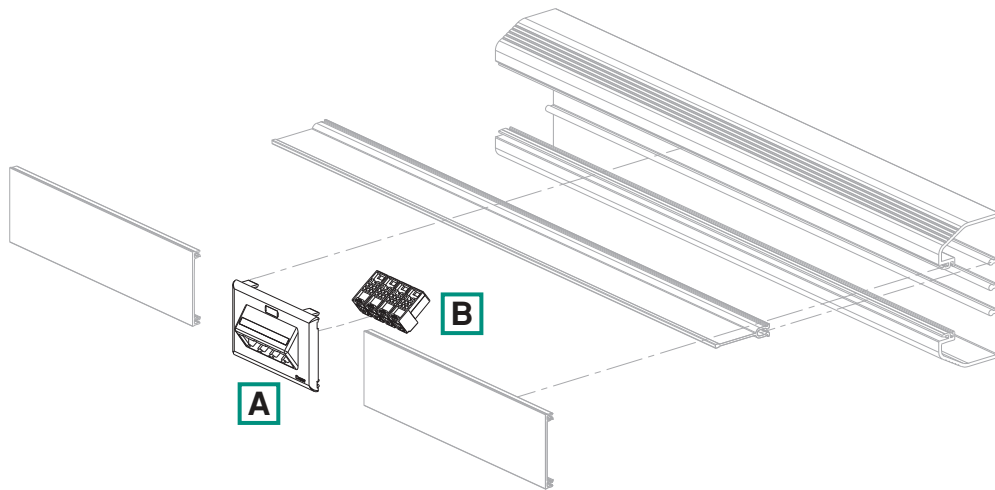
Components Required	
A.	T70PG = Single Gang Rectangular Electrical Communication Faceplate.
B.	ERU20 = 20A Rectangular Electrical Outlet (screws included).
C.	TG70HB3 = TG-70 3-Sided Hanging Box.



TG-70 Configurations (continued)

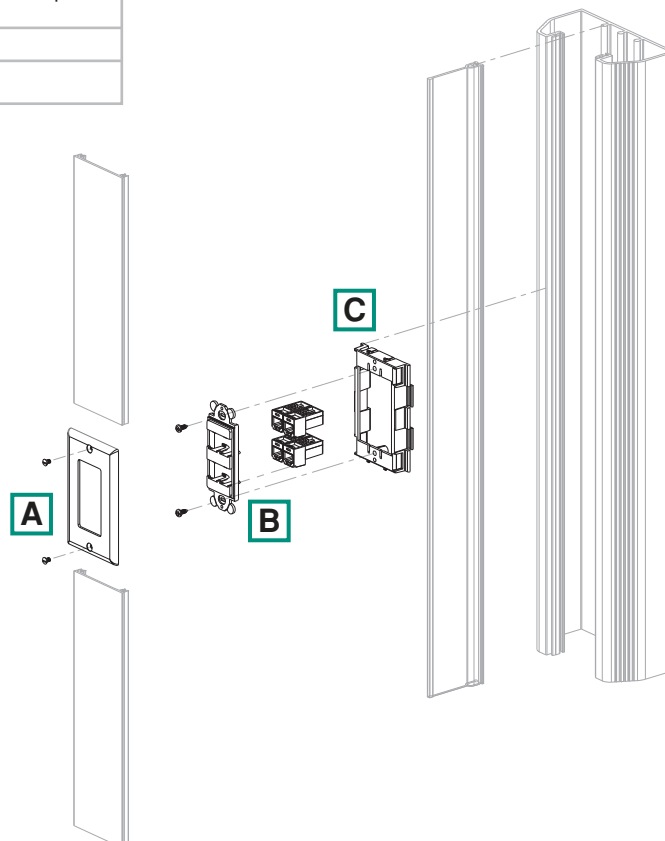
Exploded view 3

Components Required	
A.	UIT70FH4 = <i>ULTIMATE ID™</i> Sloped Horizontal Snap-on Faceplate — 4 Port.
B.	<i>MINI-COM™</i> Modules.



Exploded view 4

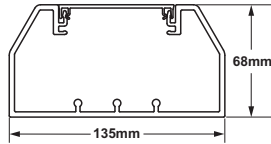
Components Required	
A.	CPG = Single Gang Rectangular Screw-on Faceplate (screws included).
B.	<i>MINI-COM™</i> Modules.
C.	T70DB = T70 Device Bracket.





PAN-WAY™ TG-70 Surface Raceway System

- UL & CSA rated 600V; meets UL5A and CSA C22.2 No. 62.1-03 standards
- Large cable capacity with aesthetically pleasing design
- Tamper resistant
- Compatible with NEMA standard faceplates or PAN-WAY™ Classic Series Snap-on Faceplates
- Transitions to PANDUIT™ T-45 and LD Profile Raceway
- Supplied with pre-punched mounting holes



TG-70
Internal Area = 6999.98mm²



TG70



T70C



TGDW

Part Number	Part Description	Raceway Size	Colour ‡	Length mm	Std. Ctn. Qty.
TG-70 Raceway Base and Cover — PACKAGED TOGETHER					
TG70IW8	TG-70 Raceway Base and Cover in 2438.4mm and 3048mm lengths. Supplied with pre-punched mounting holes.	135mm x 68mm	Off White	2438.4	32
TG70IW10				3048	40
T-70/TG-70/Twin-70 Raceway Cover					
T70CIW8	T-70, TG-70, TE-70 or Twin-70 Raceway Cover in 2438.4mm and 3048mm lengths.	—	Off White	2438.4	96
T70CIW10				3048	120
TG Raceway Divider Wall					
TGDW8	TG Raceway Divider Wall. Snaps onto rails in TG Raceway Base to create separate channels. Must use wire retainers to ensure channel separation per UL/CSA. Available in 2438.4mm and 3048mm lengths.	—	Grey	2438.4	64
TGDW10				3048	80

‡ For other colours replace IW (Off White) with EI (Electric Ivory).
Order number of feet required in multiples of standard carton quantity.

 **PAN-WAY™ TG-70 Raceway Fittings**

- TG-70 fittings are designed to exceed the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fibre optic cabling systems



T70CC

TG70BC



TGRA

TGIC



TGSIC

TGOIC



TGSOC

TGT



TGTD

TGEIC



TGEE

TGTR



TGBF

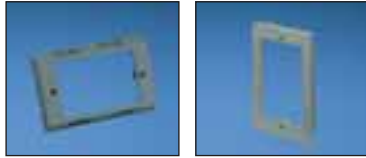
TGBFI

Part Number	Part Description	Colour ‡	Std. Pkg. Qty.	Std. Ctn. Qty.
T70CCIW-X	Cover Coupler Fitting. Used to join sections of cover together.	Off White	10	100
TG70BCIW-X	Base Coupler Fitting. Each piece includes 2 base coupler halves for joining sections of TG-70 Base together.	Off White	10	—
TGRAIW	Right Angle Fitting. Used to join sections of TG Raceway at 90° flat junctions.	Off White	1	10
TGICIW	Inside Corner Fitting. Used to join sections of TG Raceway at inside corners. Fittings adjust from 85° to 135° to adapt to non-square corners.	Off White	1	—
TGSICIW	Inside Corner Fitting – Non-adjustable. Used to join sections of TG Raceway at inside corners.	Off White	1	10
TGOCIW	Outside Corner Fitting. Used to join sections of TG Raceway at outside corners. Fittings adjust from 85° to 135° to adapt to non-square corners.	Off White	1	—
TGSOCIW	Outside Corner Fitting – Non-adjustable. Used to join sections of TG Raceway at outside corners.	Off White	1	10
TGTIW	Tee Fitting. Used to join sections of TG Raceway at tee intersections.	Off White	1	5
TGTD	Tee Divider Insert. Mounts inside TGT Tee Fitting to maintain channel separation in TG Raceway at tee intersections.	Grey	1	5
TGECIW	End Cap. Used to terminate or allow entry to TG Raceway. Two knockouts each for 16mm and 25.4mm conduit.	Off White	1	10
TGEEIW	Entrance End Fitting. Accepts large conduit, 50.8mm in line or at a right angle. Maintains a 40mm bend radius with a removable insert and channel separation.	Off White	1	10
TGTRIW	Transition Fitting from TG to T-45. Provides a tee transition from TG Raceway to T-45 and LD series size 5 and 10. Use with RF5X3 Reducer Fitting to transition to LD series size 3.	Off White	1	10
TGBFIW	Backfeed Fitting. Features breakouts to enter through the bottom of the fitting and maintains bend radius control with a removable, bend radius insert and channel separation.	Off White	1	10
TGBFI	Backfeed Fitting Insert. Removable and maintains bend radius control.	Off White	1	10

‡ For other colours replace IW (Off White) with EI (Electric Ivory).

UL **SP** **PAN-WAY™ TG-70 Raceway Accessories**

- TG-70 accessories consist of device mounting brackets, standard faceplate brackets for data, wire retainers, and fibre spool brackets. The three-sided hanging box is used to mount NEMA standard single gang outlet and communications devices



T70DB-X

T70SDB-X



TG70HB3-X

TG70HB3GFCI-X



TG70WR-X

TGFSB

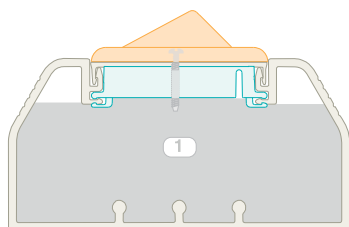


TGFSB installed in TG-70 Raceway

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
T70DB-X	Device Mounting Bracket. Used to mount NEMA standard single gang electrical outlets and communication devices with either screw-on or snap-on single gang faceplates. Can be used with T-70, Twin-70, and TG-70 Raceways.	Grey	10	—
T70SDB-X	Standard Faceplate Bracket. Used to mount NEMA standard 70mm single gang screw-on electrical/communication faceplates only.	Grey	10	—
TG70HB3-X	Three-sided Hanging Box. Mounts standard electrical outlets or communication devices with either NEMA standard single gang screw-on or <i>PANDUIT™</i> Snap-on Faceplates. When used with TGDW Divider Wall, box separates and fully encloses device to provide cabling separation.	Grey	10	—
TG70HB3GFCI-X	GFCI Three-sided Hanging Box. Accepts single gang U.S. GFCI (ground fault circuit interrupter) standard electrical devices. Provides increased internal area for connections and excess wire.	Grey	10	—
TG70WR-X	Wire Retainer. Holds wires in place during installation.	Grey	10	100
TGFSB	Fiber Spool Bracket. Each piece consists of two halves that snap into base of TG Raceway. Provides method to contain one meter or more of fibre slack and acts as a strain relief while maintaining a minimum 32mm bend radius. Bracket separation can be adjusted to fit the length of slack required.	Grey	1	10

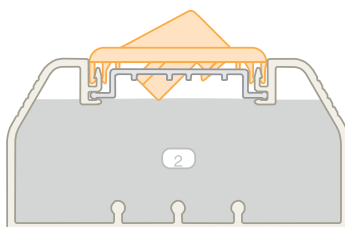
Cable Fill Capacities for TG-70 Raceway

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.



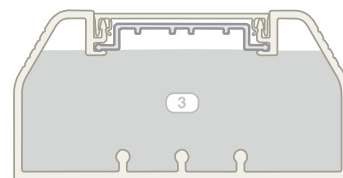
A = 6510mm²

Cable fill #1: With Data only using Screw-on Faceplates and devices.



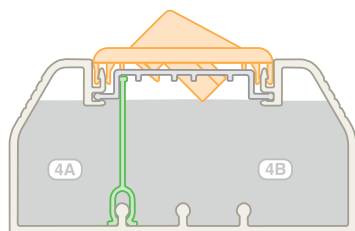
A = 6890.31mm²

Cable fill #2: With Data only using Snap-on Faceplates and Wire Retainer.



A = 7000mm²

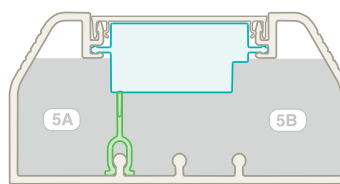
Cable fill #3: With Wire Retainer.



A = 2038.71mm²

A = 4645.15mm²

Cable fill #4: Divided (see 5A and 5B for power and data applications).



A = 1987.10mm²

A = 3600mm²

Cable fill #5: With Power and data using Snap-on Faceplates and 3-Sided Power Box.

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.

MAX for Power cable fill — The maximum number of electrical cables based on UL temperature rise test.

Raceway Type & Configuration	Fill Area mm ²	Electrical Cables			Data Grade Cable		Data Grade Cable		Audio/Video		Fibre Optic Cable	
		14 AWG	12 AWG	10 AWG	24 AWG/UTP CM		24 AWG/UTP CM		RG6		2 Strand	
		THHN/T90			Cat 5e (4pr)		Cat 6 (4pr)		DIA. = .275		DIA. = .175	
		.105	.122	.153	DIA. = .217		DIA. = .250		DIA. = .275		DIA. = .175	
		FILL			FILL		FILL		FILL		FILL	
MAX	MAX	MAX	SPEC	MAX	SPEC	MAX	SPEC	SPEC	MAX	SPEC	MAX	
(UL Temp Rise Test)			(40%)	(60%)	(40%)	(60%)	(40%)	(60%)	(40%)	(60%)	(40%)	(60%)
1. TG70: Data only using Screw-on Faceplates and Devices.	6510	—	—	—	92	138	82	123	53	80	164	247
2. TG70: Data only using Snap-on Faceplates and Wire Retainer.	6890.31	—	—	—	97	146	87	130	56	85	174	261
3. TG70: Wire Retainer without devices.	7000	40	40	38	99	148	88	132	57	86	177	265
4A. TG70: Divided power and data (A).	2038.71	28	28	26	28	43	25	38	17	25	51	77
4B. TG70: Divided power and data (B).	4645.15	—	—	—	65	98	58	88	38	57	117	176
5A. TG70: Power and data using Snap-on Faceplates and 3 Sided Power Box (A).	1987.10	28	28	26	28	42	25	37	16	24	50	75
5B. TG70: Power and data using Snap-on Faceplates and 3 Sided Power Box (B).	3600	—	—	—	51	76	45	68	30	44	91	136

Notes

PAN-WAY™ T-70 & TWIN-70 NON-METALLIC SURFACE RACEWAY

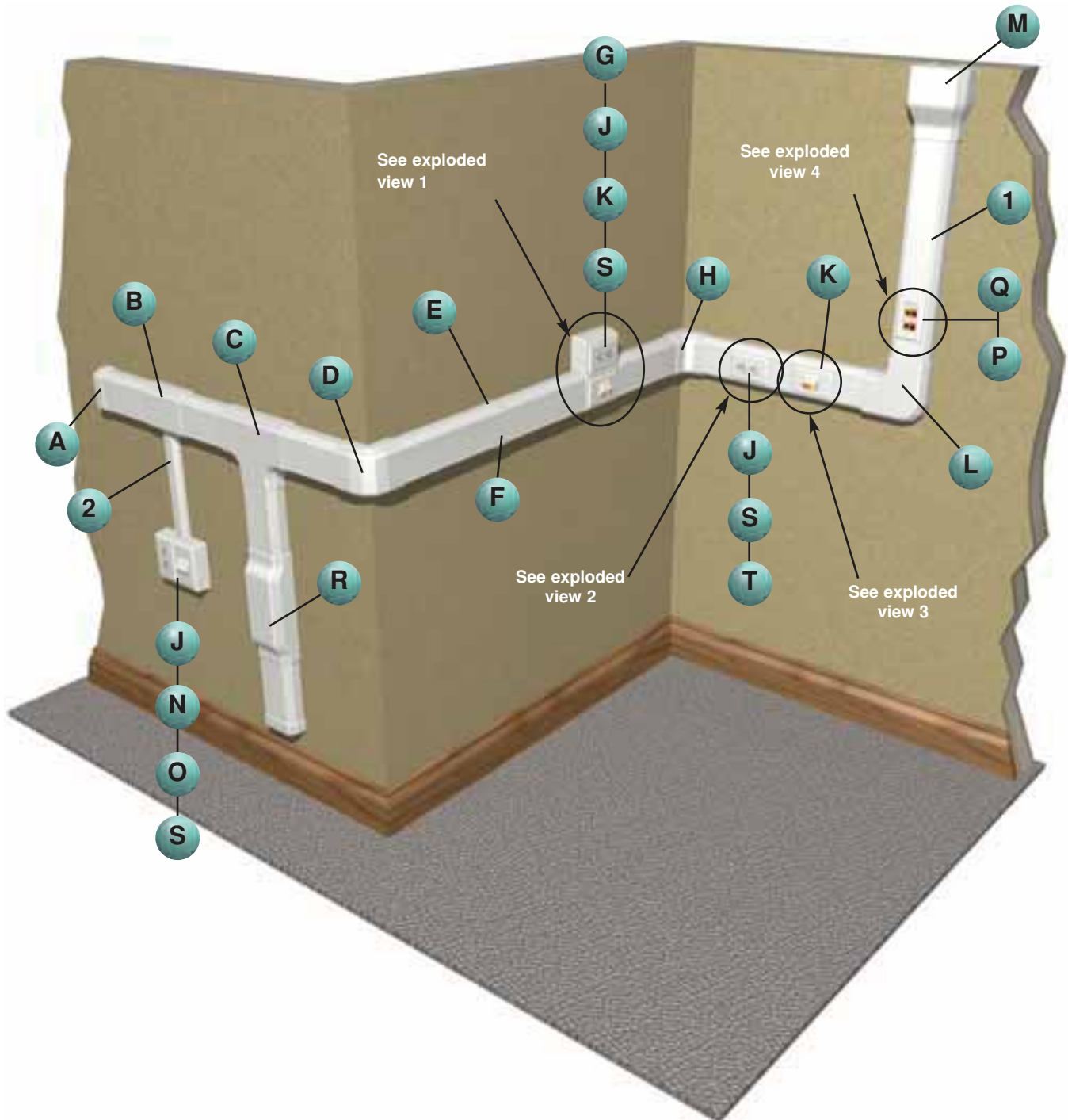
PAN-WAY™ T-70 and Twin-70 Non-Metallic Surface Raceways are multi-channel raceways which provide solutions for routing copper, fibre optic and/or power cabling along fixed perimeter walls. T-70 features the *WORKSTATION OUTLET CENTER™* Offset Box which provides an offset solution to maximise channel capacity and outlet density. Twin-70 offers two totally independent channels maintained throughout the system for independent access to power, copper and fibre optic cabling.

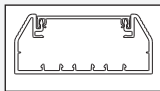


- Aesthetically pleasing
- Lightweight
- Tamper resistant
- Fittings maintain 25.4mm bend radius control
- T-70 utilises a single channel with snap-in divider wall to provide multi-channel capability
- Twin-70 utilises two independent channels and covers to provide multi-channel capability

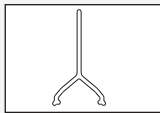
The T-70 and Twin-70 raceway systems consist of raceway base and cover, fittings, termination hardware and accessories. PAN-WAY™ T-70 and Twin-70 raceway can mount NEMA standard screw-on faceplates or superior PAN-WAY™ Snap-on Faceplates directly to the channel. Fittings for T-70 and Twin-70 are available to transition to T-70, Twin-70, T-45 and LD raceways.

T-70 Raceway Roadmap

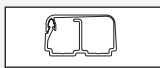




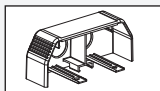
1 T70B**, T70C** — T-70 Base and Cover



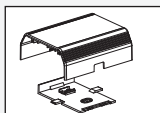
1 T70DW — T-70 Divider Wall



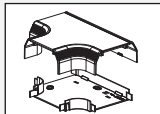
2 LD2P10** — LD2P10 Raceway



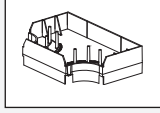
A T70EC** — T-70 End Cap Fitting



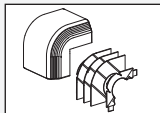
B T70TR** — T-70 Transition Fitting



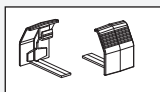
C T70T** — T-70 Tee Fitting



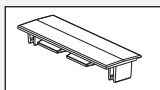
T70TD — T-70 Tee Divider



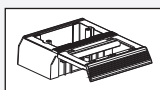
D T70OC** — T-70 Outside Corner Fitting



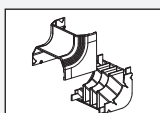
E T70BC** — T-70 Base Coupler Fitting



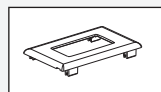
F T70CC** — T-70 Cover Coupler Fitting



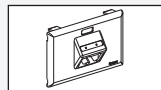
G T70WC2** — T-70 Workstation Outlet Center Offset box for Snap-On Faceplates



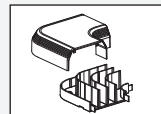
H T70IC** — T-70 Inside Corner Fitting



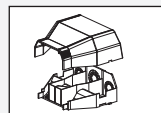
J T70PG** — Single Gang Rectangular Electrical Communication Snap-On Faceplate



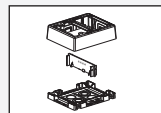
K UIT70FH2** — *ULTIMATE ID™* Sloped Horizontal Snap-On Faceplate



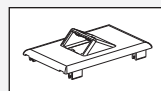
L T70RA** — T-70 Right Angle Fitting



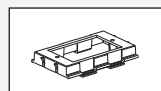
M T70EE** — T-70 Entrance End Fitting



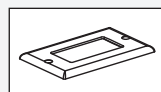
N JBP2FS** — *FAST-SNAP™* Double Gang Power Rated Surface Mount Outlet Box



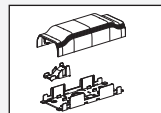
O T70FV2** — Vertical Sloped Communication Snap-On Faceplate



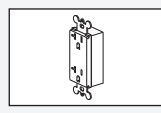
P T70DB-X — T-70 Device Bracket



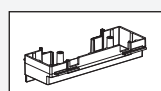
Q CPG** — Single Gang Rectangular Screw-On Faceplate



R T70BF** — T-70 Backfeed Fitting



S ERU20** — 20A Rectangular Electrical Outlet

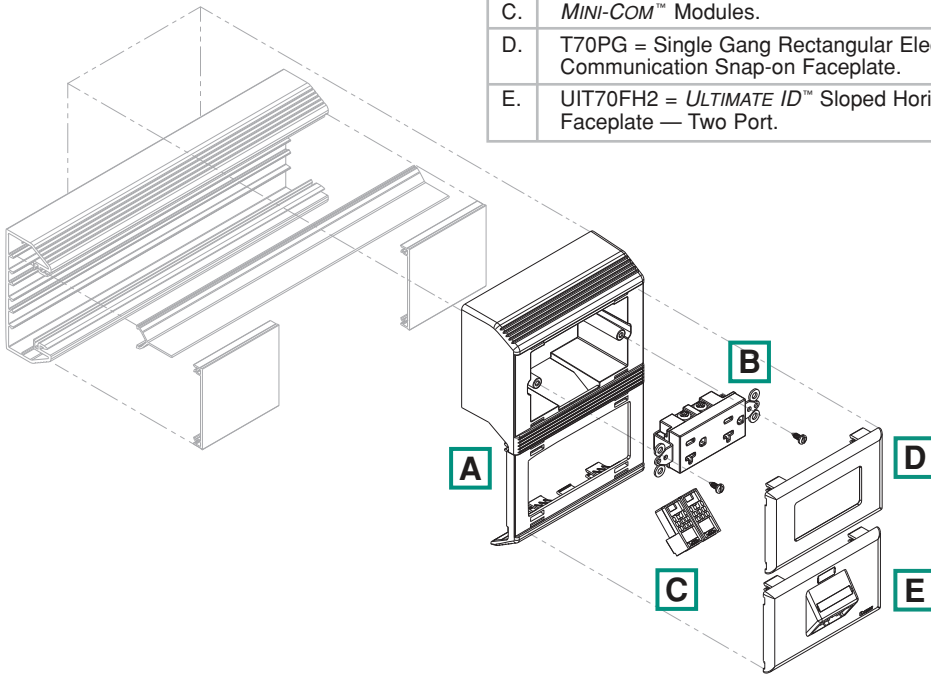


T T70HB3-X — Three Sided Hanging Box

T-70 Configurations

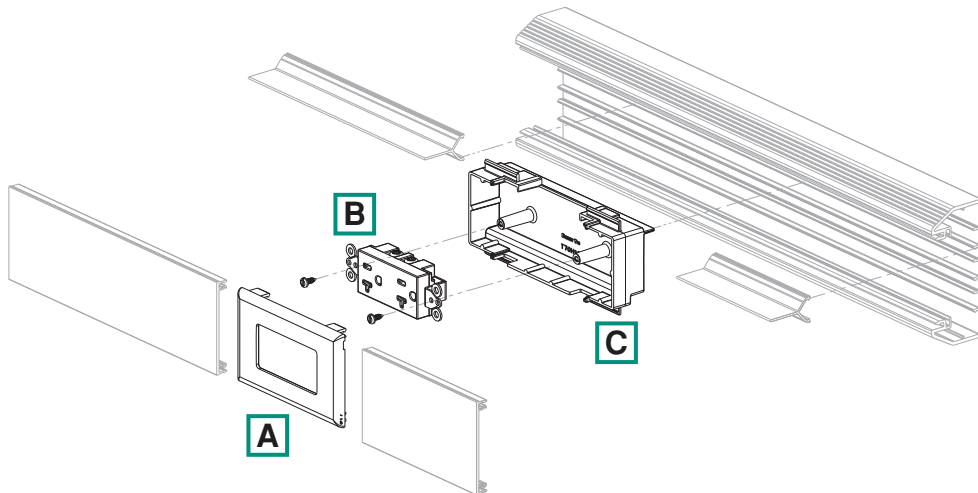
Exploded view 1

Components Required	
A.	T70WC2 = T-70 <i>WORKSTATION OUTLET CENTER™</i> Offset Box for Snap-on Faceplates.
B.	ERU20 = 20A Rectangular Electrical Outlet (screws included).
C.	<i>MINI-COM™</i> Modules.
D.	T70PG = Single Gang Rectangular Electrical/Communication Snap-on Faceplate.
E.	UIT70FH2 = <i>ULTIMATE ID™</i> Sloped Horizontal Snap-on Faceplate — Two Port.



Exploded view 2

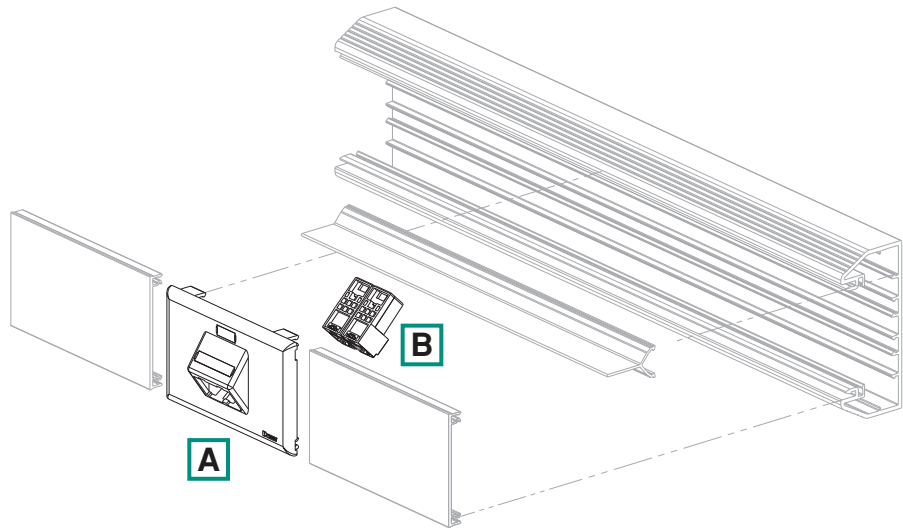
Components Required	
A.	T70PG = Single Gang Rectangular Electrical/Communication Snap-on Faceplate.
B.	ERU20 = 20A Rectangular Electrical Outlet (screws included).
C.	T70HB3-X = Three-Sided Hanging Box.



T-70 Configurations (continued)

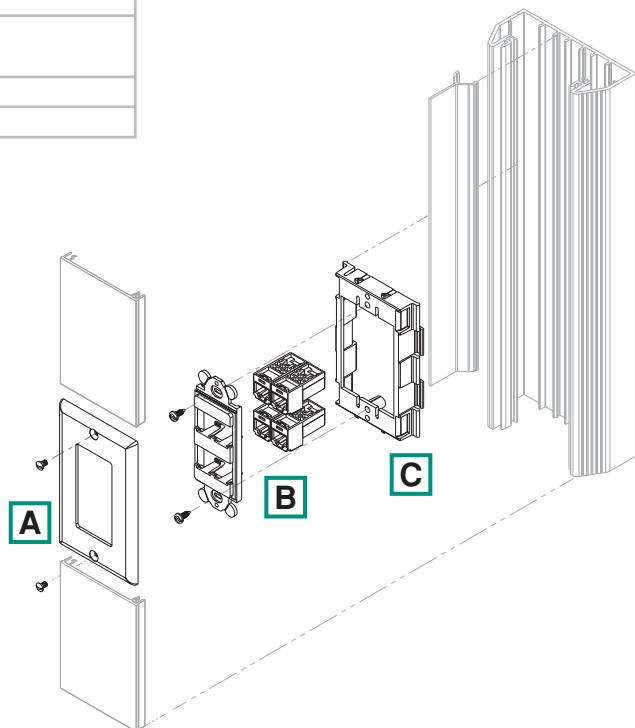
Exploded view 3

Components Required	
A.	UIT70FH2 = <i>ULTIMATE ID™</i> Sloped Horizontal Snap-on Faceplate — Two Port.
B.	<i>MINI-COM™</i> Modules.

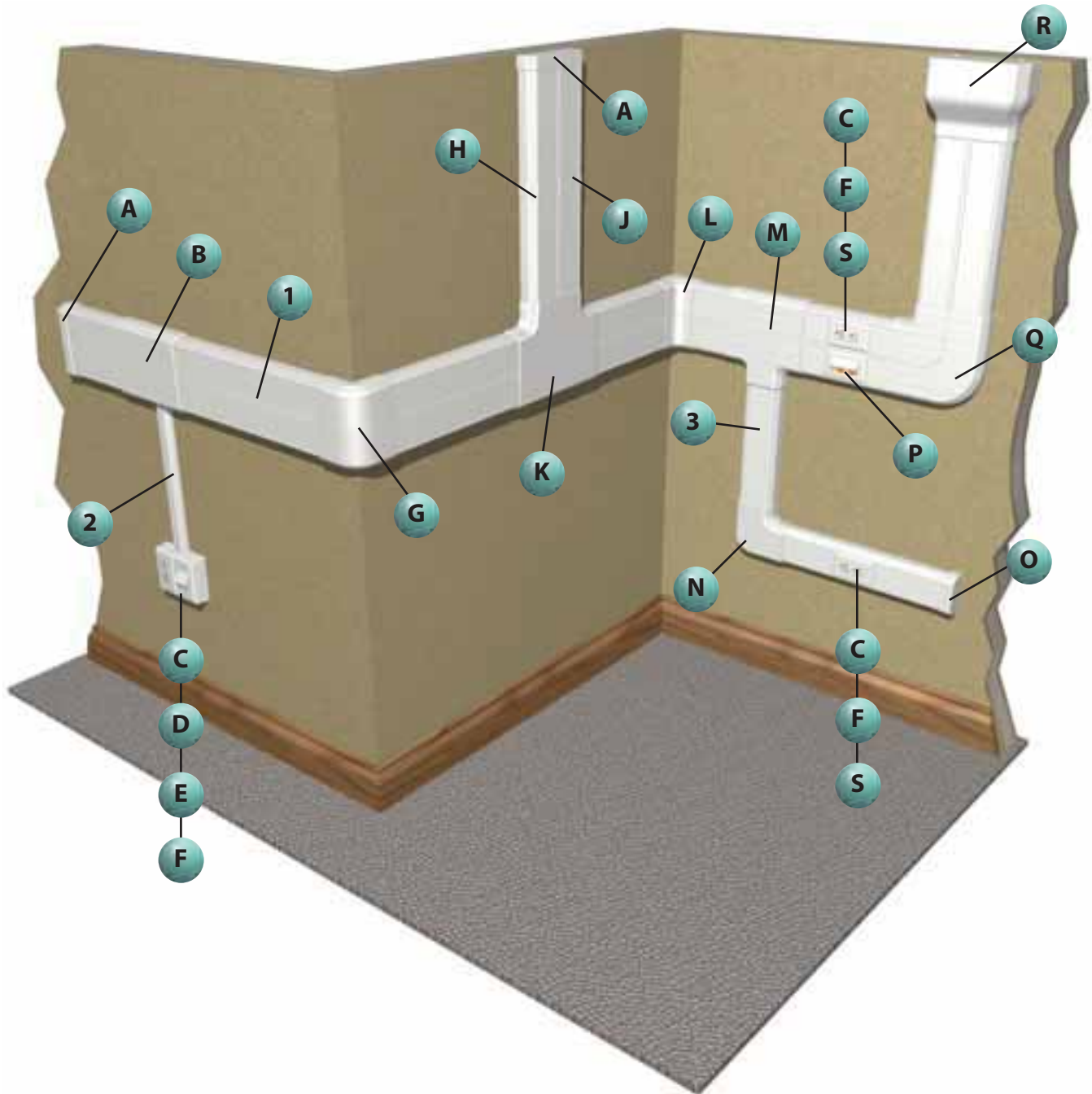


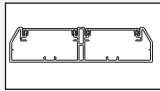
Exploded view 4

Components Required	
A.	CPG = Single Gang Rectangular Screw-on Faceplates (screws included).
B.	<i>MINI-COM™</i> Modules.
C.	T70DB-X = T-70 Device Bracket.

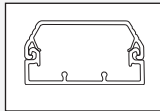


Twin-70 Raceway Roadmap

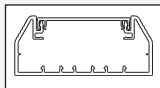




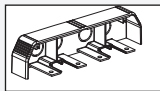
1 T702B**, T70C** — T702 Raceway Base and Cover



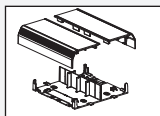
2 T45B**, T45C** — T-45 Raceway Base and Cover



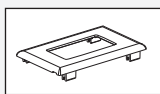
3 T70B**, T70C** — T-70 Raceway Base and Cover



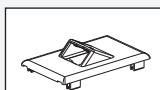
A T702EC** — Twin-70 End Cap Fitting



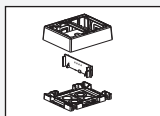
B T702TRL** — Twin-70 Transition Fitting



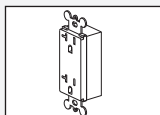
C T70PG** — Single Gang Rectangular Electrical/Communication Snap-On Faceplate



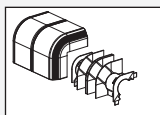
D T70FV2** — Vertical Sloped Communication Snap-On Faceplate



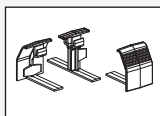
E JBP2FS** — FAST-SNAP™ Double Gang Power Rated Surface Mount Outlet Box



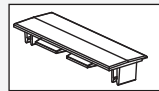
F ERU20** — 20A Rectangular Electrical Outlet



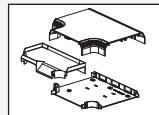
G T702OC** — Twin-70 Outside Corner Fitting



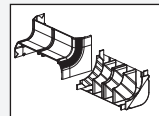
H T702BC** — Twin-70 Base Coupler Fitting



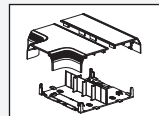
J T70CC** — T-70 Cover Coupler Fitting



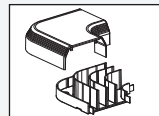
K T702T** — Twin-70 Tee Fitting



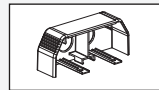
L T702IC** — Twin-70 Inside Corner Fitting



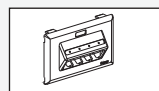
M T702TR** — Twin-70 Transition Fitting



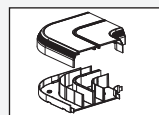
N T70RA** — T-70 Right Angle Fitting



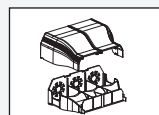
O T70EC** — T-70 End Cap Fitting



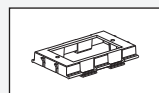
P UIT70FH4** — ULTIMATE ID™ Sloped Horizontal Snap-On Faceplate



Q T702RA** — Twin-70 Right Angle Fitting



R T702EE** — Twin-70 Entrance End Fitting

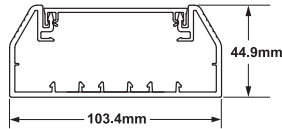


S T70DB-X** — T-70 Device Mounting Bracket

UL **SP** **PAN-WAY™ T-70 Surface Raceway System**

- UL & CSA rated 600V; meets UL5A and CSA C22.2 No. 62.1-03 standards
- Large cable capacity with aesthetically pleasing design
- Tamper resistant

- Compatible with NEMA standard 70mm faceplates or PAN-WAY™ Classic Series Snap-on Faceplates
- Transitions to PANDUIT™ T-45 and LD Profile Raceways
- Supplied with pre-punched mounting holes



T-70
Internal Area = 3322.57mm²



T70B



T70C



T70DW

Part Number	Part Description	Raceway Size	Colour ‡	Length mm	Std. Ctn. Qty.
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T-70 Raceway Base

T70BIW8	T-70 Raceway Base in 2438.4mm and 3048mm lengths. Supplied with pre-punched mounting holes.	103.4mm x 44.9mm	Off White	2438.4	48
T70BIW10				3048	60

T-70/TG-70/Twin-70 Raceway Cover

T70CIW8	T-70, TG-70, TE-70 or Twin-70 Raceway Cover in 2438.4mm and 3048mm lengths.	—	Off White	2438.4	96
T70CIW10				3048	120

T-70/Twin-70 Raceway Divider Wall

T70DW8	T-70/Twin-70 Raceway Divider Wall. Snaps onto rails in T-70/Twin-70 Raceway base to create separate channels. Must use wire retainers to ensure channel separation per UL/CSA. Available in 2438.4mm and 3048mm lengths.	—	Grey	2438.4	96
T70DW10				3048	120

‡ For other colours replace IW (Off White) with EI (Electric Ivory), WH (White) or IG (International Grey...in 2488.4mm. lengths ONLY).

Order raceway base and cover separately.

Order number of feet required in multiples of standard carton quantity.

UL **SP** **PAN-WAY™ T-70 Raceway Fittings**

- T-70 fittings are designed to maintain the TIA/EIA 568-B and 569-B required minimum bend radius for high performance copper and fibre optic cabling systems



T70CC



T70BC



T70RA















T70IC

Part Number	Part Description	Colour ‡	Std. Pkg. Qty.	Std. Ctn. Qty.
T70CCIW-X	Cover Coupler Fitting. Used to join sections of cover together.	Off White	10	100
T70BCIW-X	Base Coupler Fitting. Used to join sections of T-70 Raceway Base together.	Off White	10	—
T70RAIW	Right Angle Fitting. Used to join sections of T-70 Raceway at right angles.	Off White	1	10
T70ICIW	Inside Corner Fitting. Used to join sections of T-70 Raceway at inside corners.	Off White	1	10

‡ For other colours replace IW (Off White) with EI (Electric Ivory), IG (International Grey), WH (White) or IG (International Grey).



PAN-WAY™ T-70 Raceway Fittings (continued)

Part Number	Part Description	Colour ‡	Std. Pkg. Qty.	Std. Ctn. Qty.
 T70OC	 T70T			
 T70TD	 T70EC			
 T70EE	 T70TR T70TRC			
 T70TRI	 T70WM40TR			
 T70BF	 T70BFI			
 T70WC	 T70WC2			
T70OCIW	Outside Corner Fitting. Used to join sections of T-70 Raceway at outside corners.	Off White	1	10
T70TIW	Tee Fitting. Used to join sections of T-70 Raceway at tee intersections.	Off White	1	10
T70TD	Raceway Divider Inserts (power & data applications). Separates power and data within tee fitting when divider wall is placed in top position.	Grey	1	10
T70ECIW	End Cap Fitting. Used to terminate or allow entry to T-70 Raceway with conduit breakouts of 12.7mm	Off White	1	10
T70EEIW	Entrance End Fitting. Conduit breakouts of 12.7mm, 19.05mm, 25.4mm, and 31.75mm which allows entry from ceiling or wall.	Off White	1	10
T70TRIW	Transition Fitting. Used to transition to any LD Profile or T-45 Raceway while maintaining channel separation. Fitting includes bend radius insert.	Off White	1	10
T70TRCIW	Transition Fitting Cover. Used to transition to any LD Profile or T-45 Raceway.	Off White	1	10
T70TRI	Divided Insert for T-70 to LD2P10. Maintains channel separation within T70TR fitting.	Grey	1	10
T70WM40TRIW	Wiremold* to T-70 Transition Fitting. In-line transition fitting from Wiremold G4000 to T-70 Raceway.	Off White	1	10
T70BFIW	Backfeed Fitting. Allows cable entry through the back of the T-70 Raceway.	Off White	1	10
T70BFI	Backfeed Fitting Insert. Bend radius insert to be used with T70BF.	Grey	1	10
T70WCIW	WORKSTATION OUTLET CENTER™ Offset Box for Screw-on Faceplates. Two-piece box & bracket accept any NEMA standard screw-on faceplate.	Off White	1	10
T70WC2IW	WORKSTATION OUTLET CENTER™ Offset Box for PAN-WAY™ Snap-on Faceplates. Two-piece box & bracket accept any standard electrical outlet. Accepts any PAN-WAY™ Snap-on Electrical/Communication Faceplates.	Off White	1	10

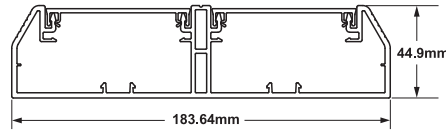
‡ For other colours replace IW (Off White) with EI (Electric Ivory), IG (International Grey), WH (White) or IG (International Grey).

* Wiremold is a registered trademark of the Wiremold Co.



PAN-WAY™ Twin-70 Surface Raceway System

- UL & CSA rated 600V; meets UL5A and CSA C22.2 No. 62.1-03 standards
- Separate channels allow independent access to power and communication cabling throughout the entire system
- Transitions to PANDUIT™ T-70, T-45 and LD Profile Raceways
- Compatible with NEMA standard 70mm faceplates or PAN-WAY™ Classic Series Snap-on Faceplates
- Tamper resistant
- Supplied with pre-punched mounting holes



TWIN-70
Left Internal Area = 2961.28mm²
Right Internal Area = 2961.28mm²



T702B



T70C



T70DW

Part Number	Part Description	Raceway Size	Colour ‡	Length mm	Std. Ctn. Qty.
Twin-70 Raceway Base					
T702BIW8	Twin-70 Raceway Base in 2438.4mm and 3048mm lengths. Supplied with pre-punched mounting holes.	183.64mm x 44.9mm	Off White	2438.4	24
T702BIW10				3048	30
T-70/TG-70/Twin-70 Raceway Cover					
T70CIW8	T-70, TG-70, TE-70 or Twin-70 Raceway Cover in 2438.4mm and 3048mm lengths.	—	Off White	2438.4	96
T70CIW10				3048	120
T-70 Raceway Divider Wall					
T70DW8	T-70/Twin-70 Raceway Divider Wall. Snaps onto rails in T-70/Twin-70 Raceway base to create separate channels. Must use wire retainers to ensure channel separation per UL/CSA. Available in 2438.4mm and 3048mm lengths.	—	Grey	2438.4	96
T70DW10				3048	120














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

600mm of cover needed for every 300mm of Twin-70 Base.

Order number of feet required in multiples of standard carton quantity.

 **PAN-WAY™ Twin-70 Raceway Fittings**

- Twin-70 fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fibre optic cabling systems

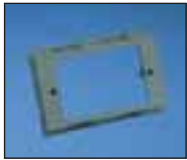
		Part Number	Part Description	Colour ‡	Std. Pkg. Qty.	Std. Ctn. Qty.
 T70CC	 T702BC	T70CCIW-X	Cover Coupler Fitting. Used to join sections of cover together.	Off White	10	100
 T702RA	 T702IC	T702BCIW-X	Base Coupler Fitting. Used for joining sections of Twin-70 Base together.	Off White	10	—
 T702OC	 T702T	T702RAIW	Right Angle Fitting. Used to join sections of Twin-70 Raceway at 90° flat junctions.	Off White	1	10
 T702EC	 T702EE	T702ICIW	Inside Corner Fitting. Used to join sections of Twin-70 Raceway at inside corners.	Off White	1	10
 T702TR	 T702TRL	T702OCIW	Outside Corner Fitting. Used to join sections of Twin-70 Raceway at outside corners.	Off White	1	10
 T702TRI		T702TIW	Tee Fitting. Used to join sections of Twin-70 Raceway at tee intersections.	Off White	1	5
		T702ECIW	End Cap Fitting. Conduit breakouts of 12.7mm for entry into raceway channel.	Off White	1	10
		T702EEIW	Entrance End Fitting. Conduit breakouts of 12.7mm, 25.4mm, and 38.1mm for entry from ceiling or wall.	Off White	1	5
		T702TRIW	Transition Fitting. Used to transition to T-70 Raceway.	Off White	1	5
		T702TRLIW	Transition Fitting. Used to transition to any LD Profile or T-45 Raceway.	Off White	1	5
		T702TRI	Transition Divider Insert for T702 to T-70 or T702 to LD Profile. Maintains channel separation within T702TR or T702TRL fittings.	Grey	1	10

‡ For other colours replace IW (Off White) with EI (Electric Ivory) or WH (White). T702TRI available in Grey only.



PAN-WAY™ T-70 & Twin-70 Raceway Accessories

- T-70 and Twin-70 accessories consist of device mounting brackets, snap-on device brackets, hanging boxes and three sided hanging boxes used to mount NEMA standard single gang electrical outlets and or communication devices



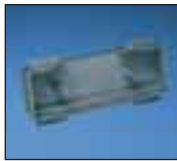
T70DB-X



T70SDB-X



T70HB-X



T70HB3-X



T70HB3GFCI-X



T70WR-X



T70S-X



T70FSB

Part Number	Part Description	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
T70DB-X	Device Mounting Bracket. Used to mount NEMA standard single gang electrical outlets and communication devices with either screw-on or snap-on single gang faceplates. Can be used with T-70, Twin-70 and TG-70 Raceways.	Grey	10	—
T70SDB-X	Standard Faceplate Bracket. Used to mount NEMA standard 70mm single gang screw-on electrical/communication faceplates only.	Grey	10	—
T70HB-X	Hanging Box. Used to mount NEMA standard single gang electrical outlets and devices with either screw-on or snap-on single gang faceplates when there are communications cables in the raceway. For use in T-70 and Twin-70 Raceway only.	Grey	10	—
T70HB3-X	Three-sided Hanging Box. Used to mount NEMA standard single gang electrical outlets and devices with either screw-on or snap-on single gang faceplates when there are communications cables in the raceway. Box is low profile for increased channel capacity and does not require breakout removal. For use with T-70 & Twin-70 Raceway only.	Grey	10	—
T70HB3GFCI-X	T70 GFCI Three-sided Hanging Box. Accepts single gang U.S. GFCI (ground fault circuit interrupter) standard electrical devices. Provides increased internal area for connections and excess wire.	Grey	10	—
T70WR-X	Wire Retainer. Holds wires in place during installation.	Grey	10	100
T70S-X	Spacer Plate. Used to mount the CBX4 Surface Mount Box onto the T70DB-X or T70HB-X / T70HB3-X.	—	10	—
T70FSB	Fibre Spool Bracket. Each piece consists of two halves that snap into base of T-70 or Twin-70 Raceway. Provides method to contain one meter or more of fibre slack and acts as a strain relief while maintaining a minimum 30mm bend radius. Bracket separation can be adjusted to fit the length of slack required.	Grey	1	10



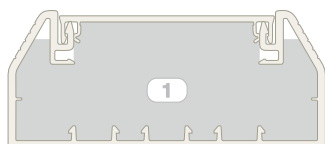
Use the T70FSB with T-70 or Twin-70 Raceway to contain 1m or more of fibre slack while maintaining a 30mm cable bend radius. Brackets are adjustable for slack length.



Use T70S-X Spacer Plate for mounting the CBX4 Surface Mount Box on T-70 or T702.

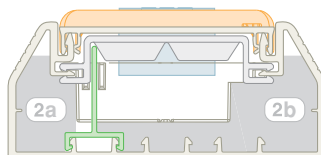
Cable Fill Capacities for T-70 Raceway

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.



A = 3322mm²

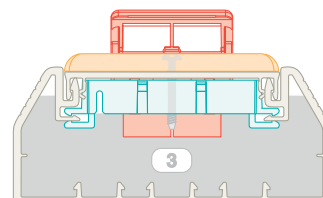
Cable fill #1: Raceway with no devices.



A = 554.84mm²

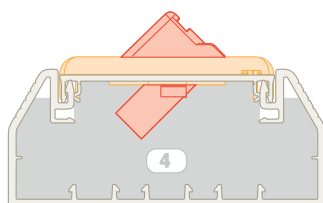
A = 1110mm²

Cable fill #2: Power and data using Three-Sided Hanging Box and Device Bracket.



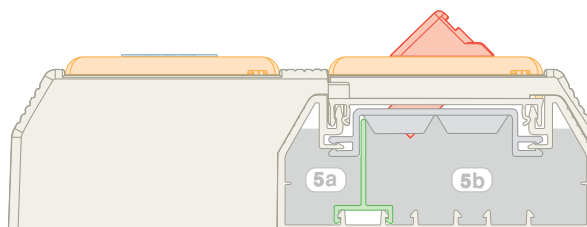
A = 2367.74mm²

Cable fill #3: Data only using Vertical Sloped Screw-on Communication Faceplates.



A = 3038.70mm²

Cable fill #4: Data only using Horizontal Sloped Snap-on Communication Faceplates.



A = 587.10mm²

A = 2070.96mm²

Cable fill #5: Power and data using the *WORKSTATION OUTLET CENTER™* Offset Box.

SPEC = 40% cable fill — The recommended design in cable capacity, leaves room for future moves, adds and changes.

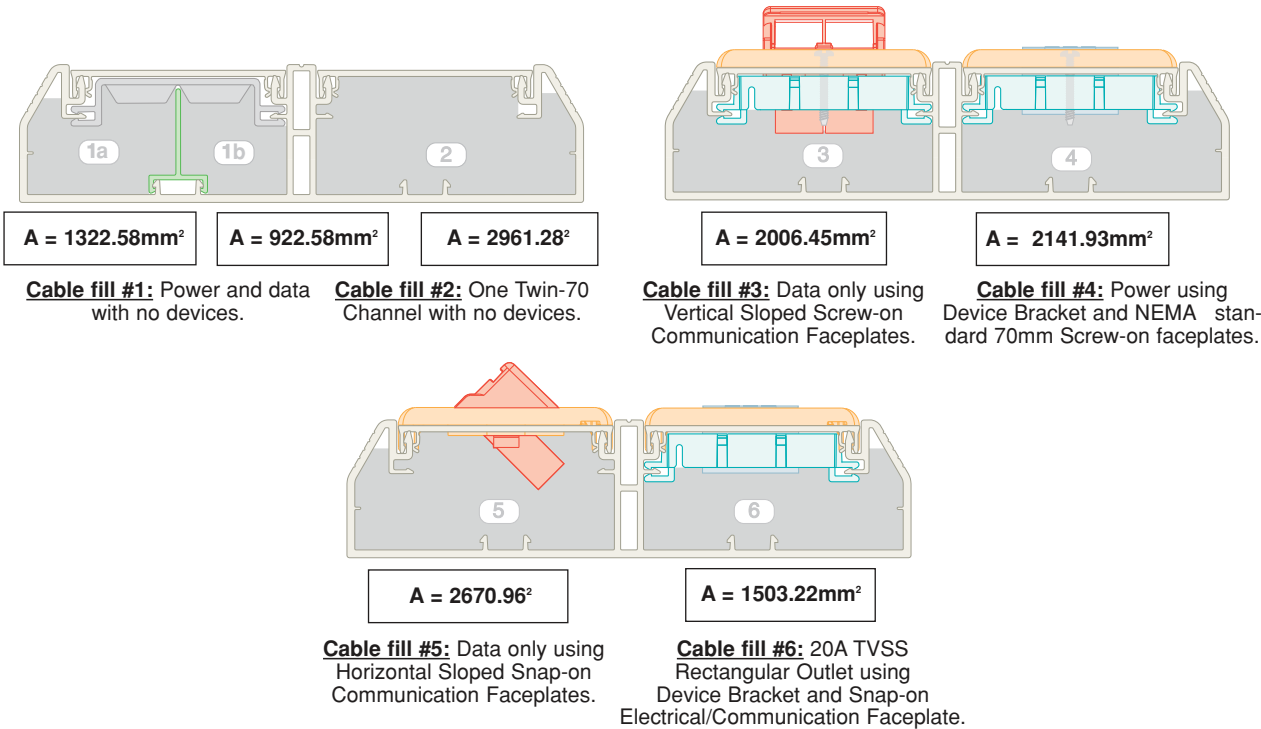
MAX for Data = 60% cable fill — The maximum cable quantity based on cable interweaving and packing factors.

MAX for Power cable fill — The maximum of electrical cables based on UL temperature rise test.

Raceway Type & Configuration	Fill Area mm ²	Electrical Cables			Data Grade Cable		Data Grade Cable		Audio/Video		Fibre Optic Cable	
		14 AWG	12 AWG	10 AWG	24 AWG/UTP CM		24 AWG/UTP CM		RG6		2 Strand	
		THHN/T90			Cat 5e (4pr)		Cat 6 (4pr)		DIA. = 6.9mm		DIA. = 4.4mm	
		2.7mm	3.0mm	3.8mm	DIA. = 5.5mm		DIA. = 6.35mm		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%)	(40%)	(60%)
1. T-70: No devices.	3322	24	20	15	55	83	41	62	27	41	86	129
2a. T-70: Power and data using the Three-Sided Hanging Box and Device Bracket.	554.84	14	11	7	9	14	7	10	5	7	14	21
2b.	1110	—	—	—	19	28	14	21	9	14	29	43
3. T-70: Data only (Screw-on Faceplates).	2367.74	—	—	—	39	59	29	44	19	29	67	101
4. T-70: Data only (Snap-on Faceplates).	3038.70	—	—	—	50	76	38	57	25	37	83	125
5a. T-70: Power and data using the <i>WORKSTATION OUTLET CENTER™</i> Offset Box.	587.10	14	11	7	9	14	7	11	5	7	15	23
5b.	2070.96	—	—	—	33	50	25	38	17	25	52	78

Cable Fill Capacities for Twin-70 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.



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.

MAX for Power cable fill — The maximum of electrical cables based on UL temperature rise test.

Raceway Type & Configuration		Fill Area mm ²	Electrical Cables			Data Grade Cable		Data Grade Cable		Audio/Video		Fibre Optic Cable	
			14 AWG	12 AWG	10 AWG	24 AWG/UTP CM	24 AWG/UTP CM	RG6		2 Strand			
			THHN/T90			Cat 5e (4pr)		Cat 6 (4pr)		DIA. = 6.9mm		DIA. = 4.4mm	
			2.7mm	3.0mm	3.8mm	DIA. = 5.5mm		DIA. = 6.35mm		FILL		FILL	
			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%)
1a.	Twin-70: Power and data, without devices.	1322.58	—	—	—	22	33	16	25	18	27	34	51
1b.		922.58	—	—	—	15	23	11	17	12	19	24	36
2.	Twin-70: One channel (no devices).	2961.28	—	—	—	49	74	37	56	24	36	76	115
3.	Twin-70: Data only (Screw-on Faceplate).	2006.45	—	—	—	33	50	25	38	16	25	52	78
4.	Twin-70: Power only (Screw-on Faceplate).	2141.93	15	13	13	35	53	27	40	18	26	55	83
5.	Twin-70: Data only (Snap-on Faceplate).	2670.96	—	—	—	44	67	33	50	22	33	69	103
6.	Twin-70: TVSS Power (Snap-on Faceplate).	1503.22	16	16	14	25	37	18	28	12	18	39	58

PAN-WAY™ T-45 NON-METALLIC SURFACE RACEWAY

PAN-WAY™ T-45 Non-Metallic Surface Raceway is a multi-channel raceway, which provides a solution for routing copper, fibre optic and/or power cabling along fixed perimeter walls. T-45 Surface Raceway terminates using the T-45 Hinged Data and Power Brackets, T-45 Offset Box and select PAN-WAY™ Surface Mount Outlet Boxes.

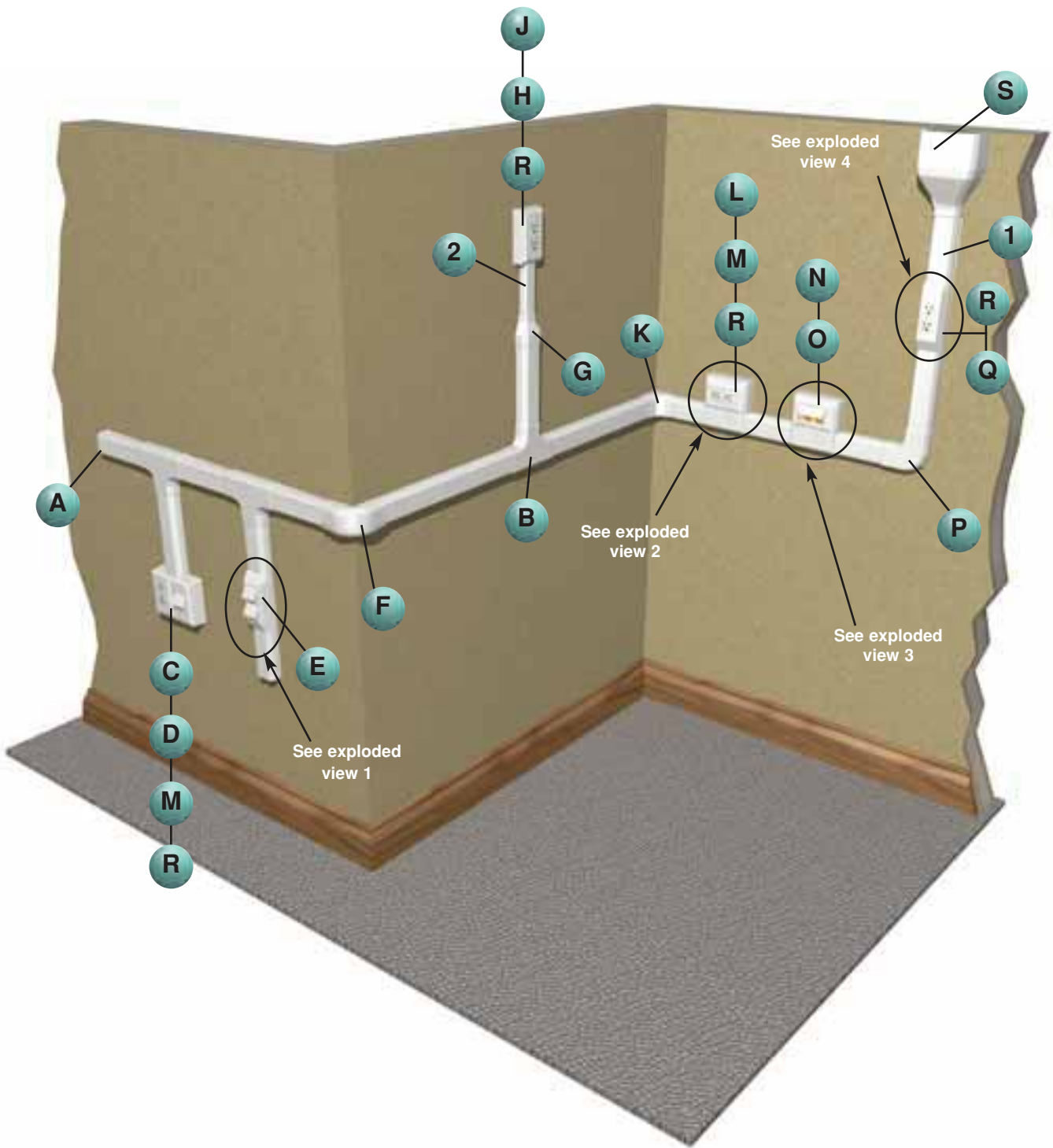


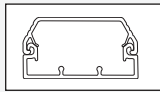
- Multi-directional cover hinge allows cable installation from either side
- Hinged data and power brackets provide easy access for terminating outlets
- Aesthetically pleasing
- Lightweight
- Tamper resistant
- Fittings maintain 25.4mm bend radius control



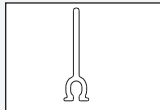
PAN-WAY™ T-45 Surface Raceway accepts NEMA standard screw-on faceplates for superior PAN-WAY™ Snap-on Faceplates when terminating with the T-45 Offset Box and Surface Mount Outlet Boxes. Fittings for T-45 are available to transition to PAN-WAY™ LD Series Raceways.

T-45 Raceway Roadmap

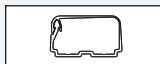




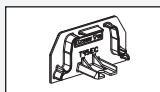
1 T45B**, T45C** — T-45 Raceway



1 T45DW** — T-45 Divider Wall



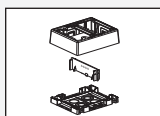
2 LDP10** — LDP Raceway



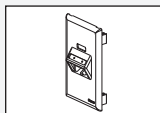
A T45EC** — T-45 End Cap Fitting



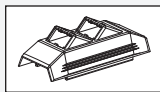
B T45T** and T45TD — T-45 Tee Fitting and Divider



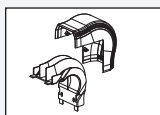
C JBP2FS** — *FAST-SNAP™* Double Gang Power Rated Surface Mount Outlet Box



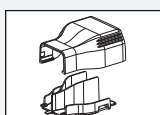
D UIT70FV2** — *ULTIMATE ID™* Sloped Vertical Snap-On Faceplate



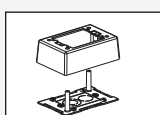
E T45HDB** — T-45 Snap-On Hinged Data Bracket



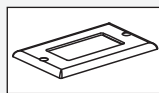
F T45OC** — T-45 Outside Corner Fitting



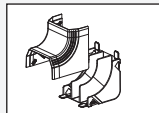
G T45RLD** — T-45 Reducer Fitting



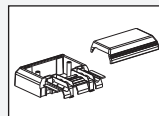
H JBP1** — Power Rated Single Gang Two-Piece Box



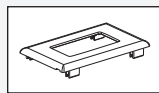
J CPG** — Single Gang Rectangular Electrical/Communication Screw-on Faceplate



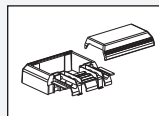
K T45IC** — T-45 Inside Corner Fitting



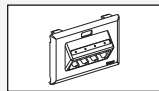
L T45WC** — T-45 Offset Box for Screw-On Faceplates/Receptacles



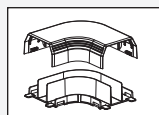
M T70PG** — Single Gang Rectangular Electrical/Communication Snap-On Faceplate



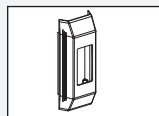
N T45WC2** — T-45 Offset Box for Snap-On Faceplates



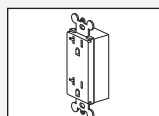
O UIT70FH4** — *ULTIMATE ID™* Sloped Horizontal Snap-On Faceplate



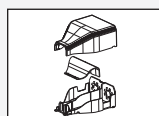
P T45RA** — T-45 Right Angle Fitting



Q T45HEGB** — T-45 Electrical Bracket



R ERU20** — 20A Rectangular Electrical Outlet

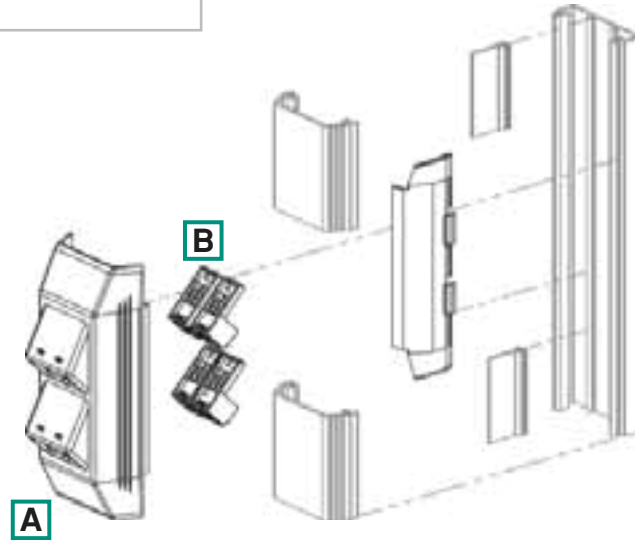


S T45EE** — T-45 Entrance End Fitting

T-45 Configurations

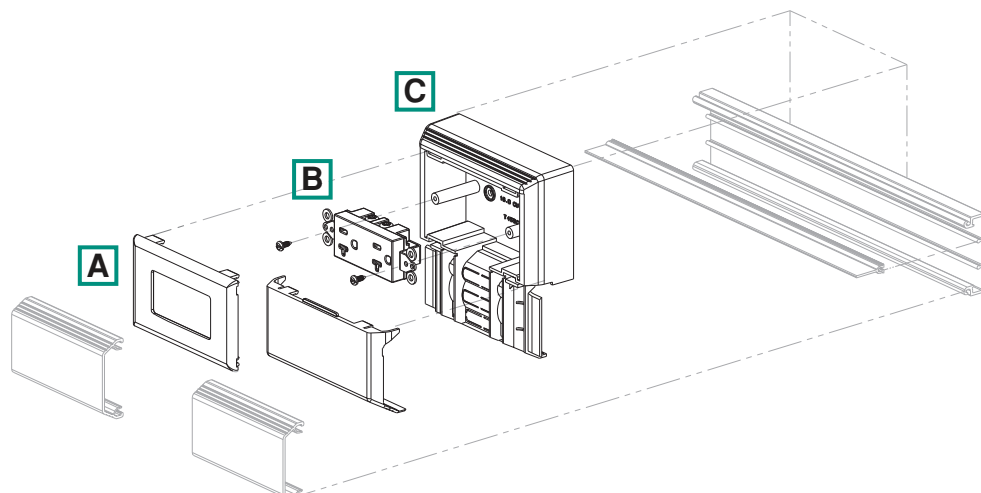
Exploded view 1

Components Required	
A.	T45HDB = T-45 Snap-on Hinged Data Bracket.
B.	MINI-COM™ Modules.



Exploded view 2

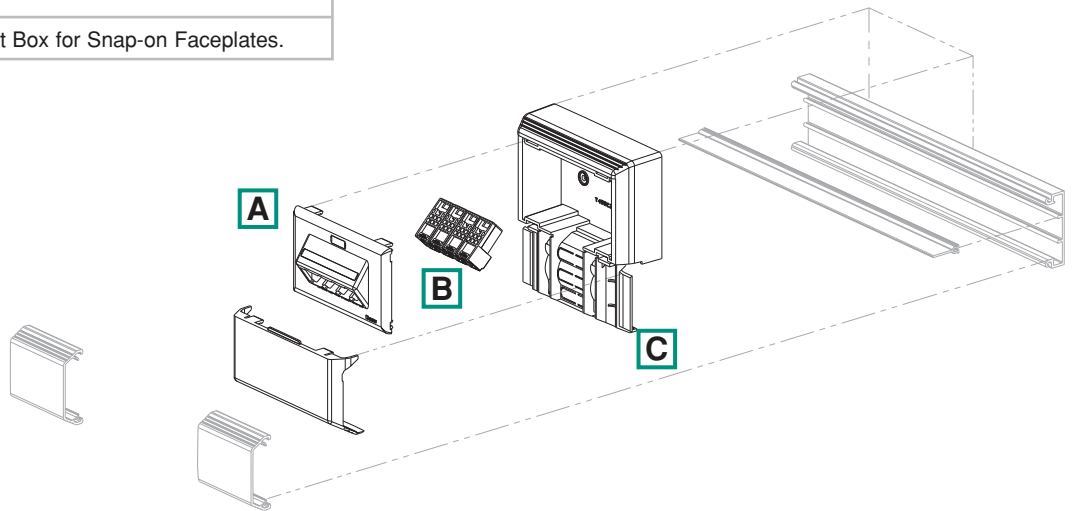
Components Required	
A.	T70PG = Single Gang Rectangular Electrical/Communication Snap-on Faceplate.
B.	ERU20 = 20A Rectangular Electrical Outlet (screws included).
C.	T45WC = T-45 Offset Box for Screw-on Faceplates/Receptacles.



T-45 Configurations (continued)

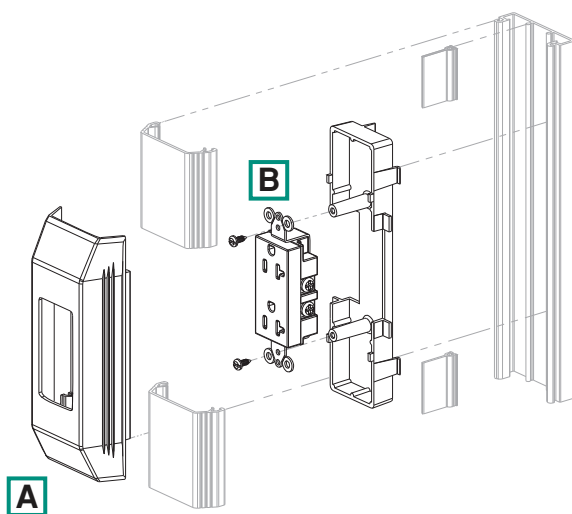
Exploded view 3

Components Required	
A.	UIT70FH4 = <i>ULTIMATE ID™</i> Sloped Horizontal Faceplates — 4 Port.
B.	<i>MINI-COM™</i> Modules.
C.	T45WC2 = T-45 Offset Box for Snap-on Faceplates.



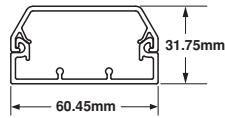
Exploded view 4

Components Required	
A.	T45HEGB = T-45 Electrical Bracket for Rectangular Outlet.
B.	ERU20 = 20A Rectangular Electrical Outlet (screws included).



UL **SP** **PAN-WAY™ T-45 Surface Raceway System**

- UL & CSA rated 600V; meets UL5A and CSA C22.2 No. 62.1-03 standards
- Hinged cover allows easy access from either side
- Optional factory applied adhesive backing speeds installation
- Supplied with pre-punched mounting holes
- Tamper resistant
- Terminates using the T-45 Hinged Data and Power Brackets, Offset Box, or Surface Mount Outlet Box solutions



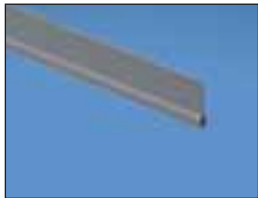
T-45
Internal Area = 1367.74mm²



T45B



T45C



















T45DW

Part Number	Part Description	Raceway Size	Colour ‡	Length mm	Std. Ctn. Qty.
T-45 Raceway Base with adhesive					
T45BIW8-A	T-45 Raceway Base in 2438.4mm and 3048mm lengths with adhesive. Supplied with pre-punched mounting holes.	60.45 x 31.75	Off White	2438.4	160
T45BIW10-A		60.45 x 31.75		3048	200
T-45 Raceway Base without Adhesive					
T45BIW8	T-45 Raceway Base in 2438.4mm and 3048mm lengths. Supplied with pre-punched mounting holes.	—	Off White	2438.4	160
T45BIW10				3048	200
T-45 Raceway Cover					
T45CIW8	T-45 Raceway Cover in 2438.4mm and 3048mm lengths. Can be hinged open on either side of T-45 Base.	—	Off White	2438.4	160
T45CIW10				3048	200
T-45 Raceway Divider Wall					
T45DW8	T-45 Divider Wall. Snaps onto rails in T-45 Raceway Base to create separate channels. Must use wire retainers to ensure channel separation per UL/CSA. Available in 2438.4mm and 3048mm lengths.	—	Grey	2438.4	160
T45DW10				3048	200

‡ For other colours replace IW (Off White) with EI (Electric Ivory).
Order base and cover separately
Order number of feet required in multiples of standard carton quantity.

 **PAN-WAY™ Type T-45 Raceway Fittings**

- T-45 fittings are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fibre optic cabling systems

		Part Number	Part Description	Colour ‡	Std. Pkg. Qty.	Std. Ctn. Qty.
T45CC	T45RA	T45CCIW-X	Cover Coupler Fitting. Used to join two pieces of T-45 Cover together.	Off White	10	100
		T45RAIW	Right Angle Fitting. Used to join sections of T-45 Raceway at 90° flat junction.	Off White	1	10
T45IC	T45OC	T45ICIW	Inside Corner Fitting. Used to join T-45 Raceway at inside corner.	Off White	1	10
		T45OCIW	Outside Corner Fitting. Used to join T-45 Raceway at 90° outside corner.	Off White	1	10
T45T	T45TD	T45TIW	Tee Fitting. Used to join T-45 Raceway at tee intersections.	Off White	1	10
		T45TD	Divided Insert. Used to separate power and data within the T45T.	Grey	1	10
T45EC	T45EE	T45ECIW	End Cap Fitting. Used to terminate T-45 Raceway.	Off White	1	10
		T45EEIW	Entrance End Fitting. With knockouts for 12.7mm, 19.05mm 25.4mm and 31.75mm conduit which allows entry from ceiling or wall.	Off White	1	10
T45RLD	T45TRI	T45RLDIW	Reducer Fitting. Reduces from T-45 to LD10 Profile Raceway.	Off White	1	10
		T45TRI	Provides bend radius control at transition from T-70 to T-45 when used with T70TR.	Grey	1	10
T45HDB	T45HEB	T45HDBIW	Snap-on Hinged Data Bracket. Used for mounting <i>MINI-COM™</i> and <i>FJ™</i> Modules vertically inline within T-45 Raceway and can be hinged opened on either side of T-45 Base.	Off White	1	10
		T45HEBIW	Electrical Bracket and Box. Used for mounting standard duplex electrical outlets.	Off White	1	10
T45HEGB	T45WR-X	T45HEGBIW	Electrical Bracket and Box. Used for mounting standard rectangular style electrical outlets.	Off White	1	10
		T45WR-X	Wire Retainers. Used to hold wires in place during installation.	Grey	10	100
T45WC	T45WC2	T45WCIW	Offset Box. Allows for the mounting of any standard electrical or communication outlet offset from the raceway channel. Box accepts any NEMA standard screw-on faceplate or <i>PAN-WAY™</i> Electrical Snap-on Faceplates.	Off White	1	10
		T45WC2IW	Offset Box. Box accepts any <i>PAN-WAY™</i> Communication Snap-on Faceplates.	Off White	1	10

‡ For other colours replace IW (Off White) with EI (Electric Ivory). T45TD, T45TRI, and T45WR-X available in Grey only.

Cable Fill Capacities for T-45 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.



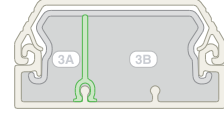
A = 1374.19mm²

Cable fill #1: T-45 with no devices.



A = 1109.68mm²

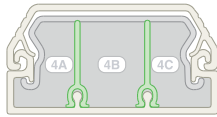
Cable fill #2: T-45 with wire retainer.



A = 283.87mm²

B = 774.19mm²

Cable fill #3: Power and data using a Wire Retainer and Divider Wall.

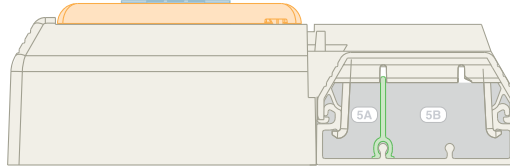


A = 283.87mm²

B = 438.71mm²

C = 283.87mm²

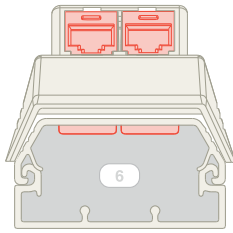
Cable fill #4: Power and data using a Wire Retainer and Divider Walls.



A = 264.52mm²

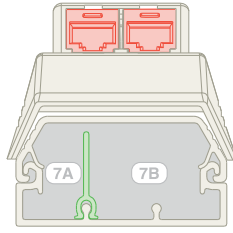
B = 683.87mm²

Cable fill #5: Power and data using the Offset Box.



A = 1290.32mm²

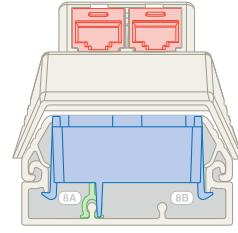
Cable fill #6: Data only using Hinged Data Bracket.



A = 335.48mm²

B = 774.19mm²

Cable fill #7: Power and data using Hinged Data Bracket with Divider Insert.



A = 141.93mm²

B = 322.58mm²

Cable fill #8: Power and data Using Electrical Bracket/Box and Hinged Data Bracket.

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.

MAX for Power cable fill — The maximum of electrical cables based on UL temperature rise test.

Raceway Type & Configuration		Fill Area mm ²	Electrical Cables			Data Grade Cable		Data Grade Cable		Audio/Video		Fibre Optic Cable		
			14 AWG	12 AWG	10 AWG	24 AWG/UTP CM	24 AWG/UTP CM	RG6		2 Strand				
			THHN/T90			Cat 5e (4pr)		Cat 6 (4pr)		DIA. = 6.9mm		DIA. = 4.4mm		
			2.7mm	3.0mm	3.8mm	DIA. = 5.5mm		DIA. = 6.35mm						
			FILL			FILL		FILL		FILL		FILL		
MAX	MAX	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX		
(UL Temp Rise Test)			(40%)		(60%)		(40%)		(60%)		(40%)		(60%)	
1.	T-45: No devices.	1374.19	36	27	25	22	34	17	26	11	17	35	53	
2.	T-45: No devices with wire retainer.	1109.68	36	27	25	18	27	14	21	9	14	28	42	
3A.	T-45: Power and data with wire retainer & divider wall (2 channels).	283.87	12	11	8	4	7	3	5	2	3	7	10	
3B.		774.19	—	—	—	12	19	9	14	6	10	16	29	
4A.	T-45: Power and data with wire retainer & two divider walls (3 channels).	283.87	12	11	8	4	7	3	5	2	3	7	10	
4B.		438.71	—	—	—	7	11	5	8	4	5	11	16	
4C.		283.87	—	—	—	4	7	3	5	2	3	7	10	
5A.	T-45: Power and data using the WORKSTATION OUTLET CENTER™ Offset Box.	264.52	12	11	8	4	6	3	5	2	3	6	10	
5B.		683.87	—	—	—	11	17	8	12	6	8	17	26	
6.	T-45: Data only using data bracket.	1290.32	—	—	—	21	32	16	24	11	16	33	49	
7A.	T-45 Power and data using Hinged Data Bracket with Divider Insert.	335.48	12	11	8	—	—	—	—	3	4	—	—	
7B.		774.19	—	—	—	12	18	9	14	6	10	16	24	
8A.	T-45: Power and data using Electrical Bracket and Box.	141.93	9	7	4	—	—	—	—	1	2	—	—	
8B.		332.58	—	—	—	5	8	4	6	3	4	8	12	

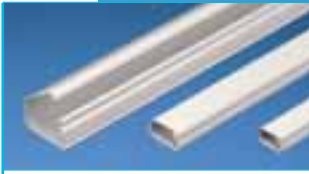
PAN-WAY™ LD PROFILE NON-METALLIC SURFACE RACEWAY



PAN-WAY™ LD Profile Raceway is available in single and multi-channel styles to provide a solution for routing copper, fibre optic and power cabling along fixed perimeter walls.

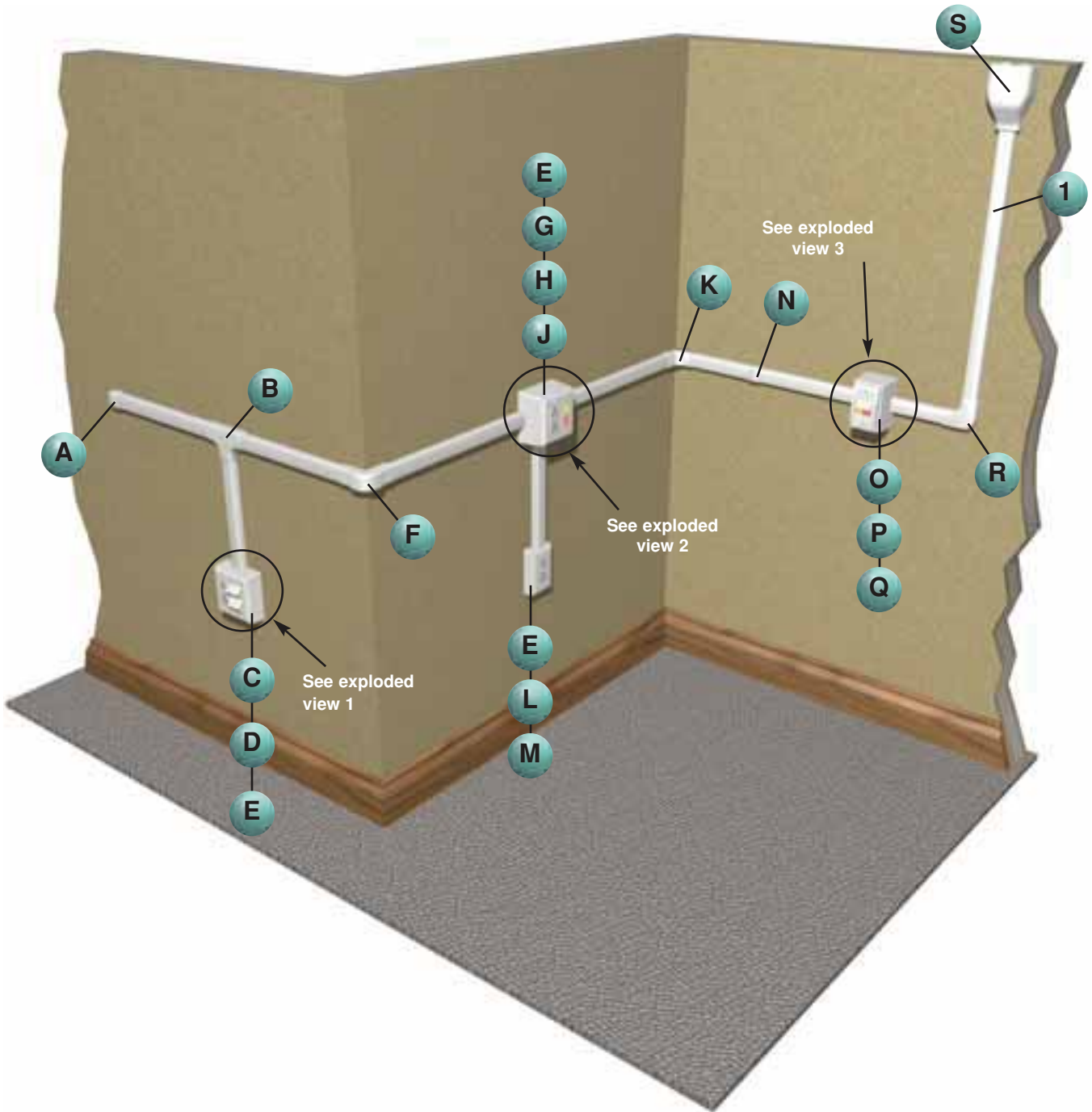


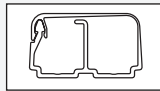
- LD2P10 features one-piece multi-channel design for both power and data applications
- LDP features one-piece single channel design and a tamper resistant latch for power OR data applications
- LD features one-piece single channel design for data routing
- LDS features one-piece single channel tamper resistant design with maximum security for power OR data applications



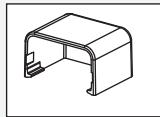
PAN-WAY™ LD Profile Raceways include a full complement of fittings for standard, bend radius control, power rated and multi-channel use, and transition easily to other PANDUIT™ raceway such as Cove, TG-70, T-70, Twin-70 and T-45.

LD2P10 Profile Raceway Roadmap

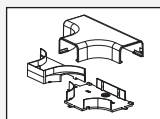




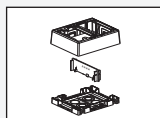
1 LD2P10 Raceway



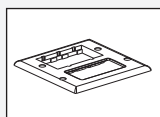
A ECFX10** — Power Rated End Cap Fitting



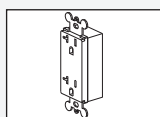
B TFXD10** — 1" Bend Radius Tee Fitting



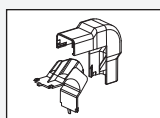
C JBP2S** — Power Rated Double Gang Three-Piece Divided Box



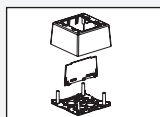
D FP2RC** — Double Gang Rectangular Electrical & 2 Communication Insert Faceplate



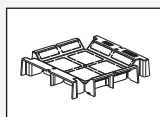
E ERU20** — 20 A Rectangular Electrical Outlet



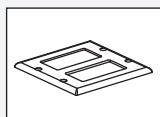
F OCFX10** — 1" Bend Radius Outside Corner Fitting



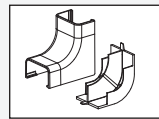
G JBP2D** — Power Rated Double Gang Two-Piece Deep Box



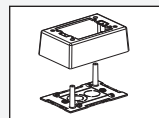
H JBD2 — Double Gang Pass Through and Divider for LD2P10 Raceway



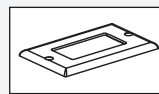
J CPG** - 2G — Double Gang Rectangular Screw-On Faceplate



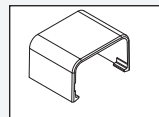
K ICFX10** — Power Rated Inside Corner Fitting



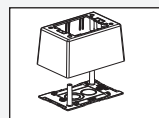
L JBP1** — Power Rated Single Gang Two-Piece Box



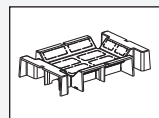
M CPG** — Single Gang Rectangular Screw-On Faceplate



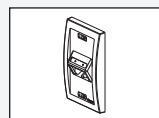
N CFX10** — Power Rated Coupler Fitting



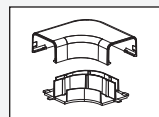
O JBP1D** — Single Gang Two-Piece Deep Box



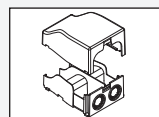
P JBD1 — Single Gang Pass Through Divider for LD2P10 Raceway



Q UICFPSE2** — *ULTIMATE ID™* 2 Position Executive Sloped Faceplate



R RAFX10** — Power Rated Right Angle Fitting

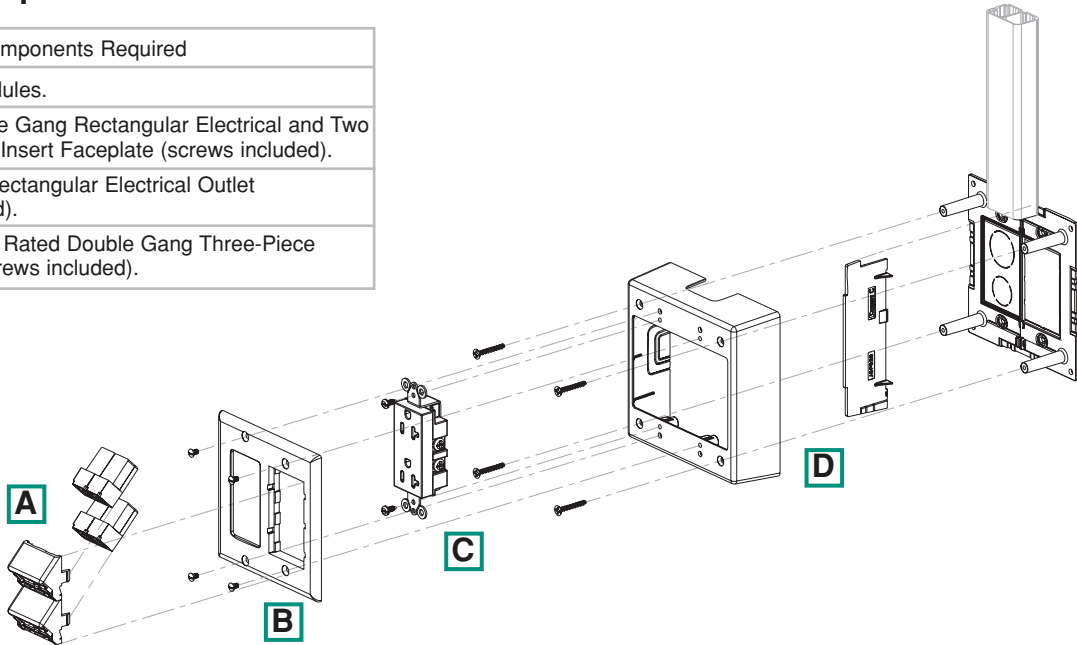


S EEFX** — Power Rated/1" Bend Radius Entrance End Fitting

LD2P10 Configurations

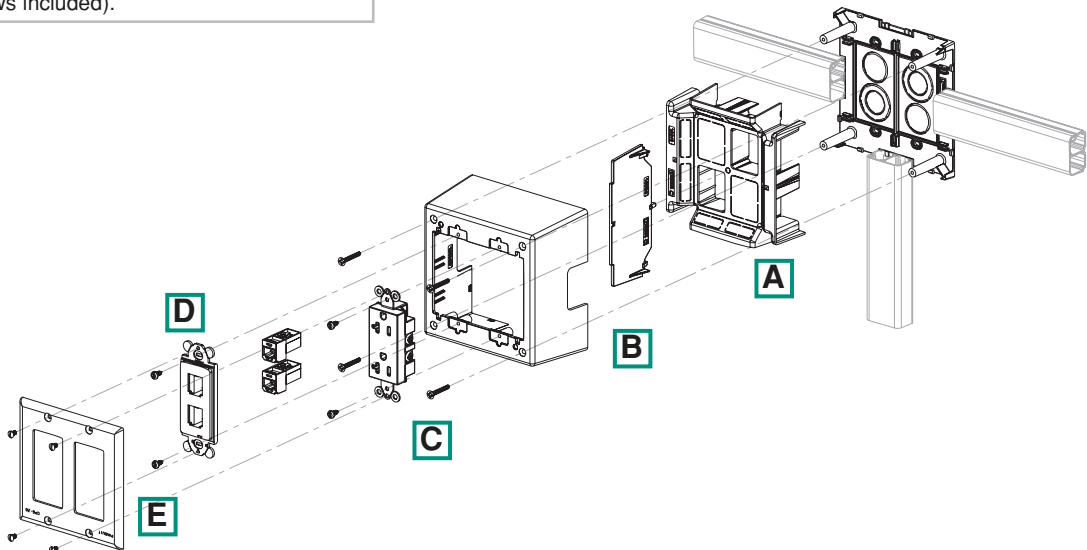
Exploded view 1

	Components Required
A.	MINI-COM™ Modules.
B.	FP2RC = Double Gang Rectangular Electrical and Two Communication Insert Faceplate (screws included).
C.	ERU20 = 20A Rectangular Electrical Outlet (screws included).
D.	JBP2S = Power Rated Double Gang Three-Piece Divided Box (screws included).



Exploded view 2

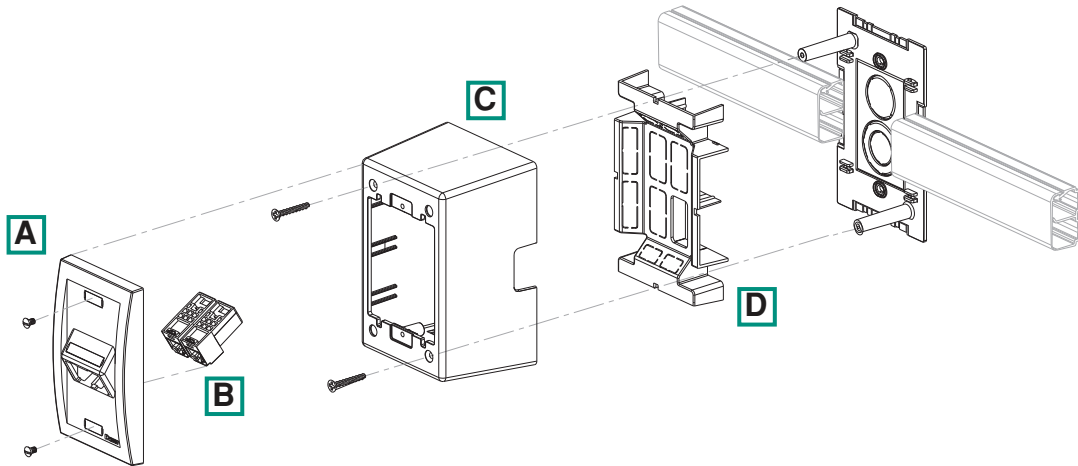
	Components Required
A.	JBD2 = Double Gang Pass Through Divider for LD2P10 Raceway.
B.	JBP2D = Power Rated Double Gang Two-Piece Deep Box.
C.	ERU20 = 20A Rectangular Electrical Outlet (screws included).
D.	MINI-COM™ Connectivity.
E.	CPG2G = Double Gang Rectangular Screw-On Faceplate (screws included).



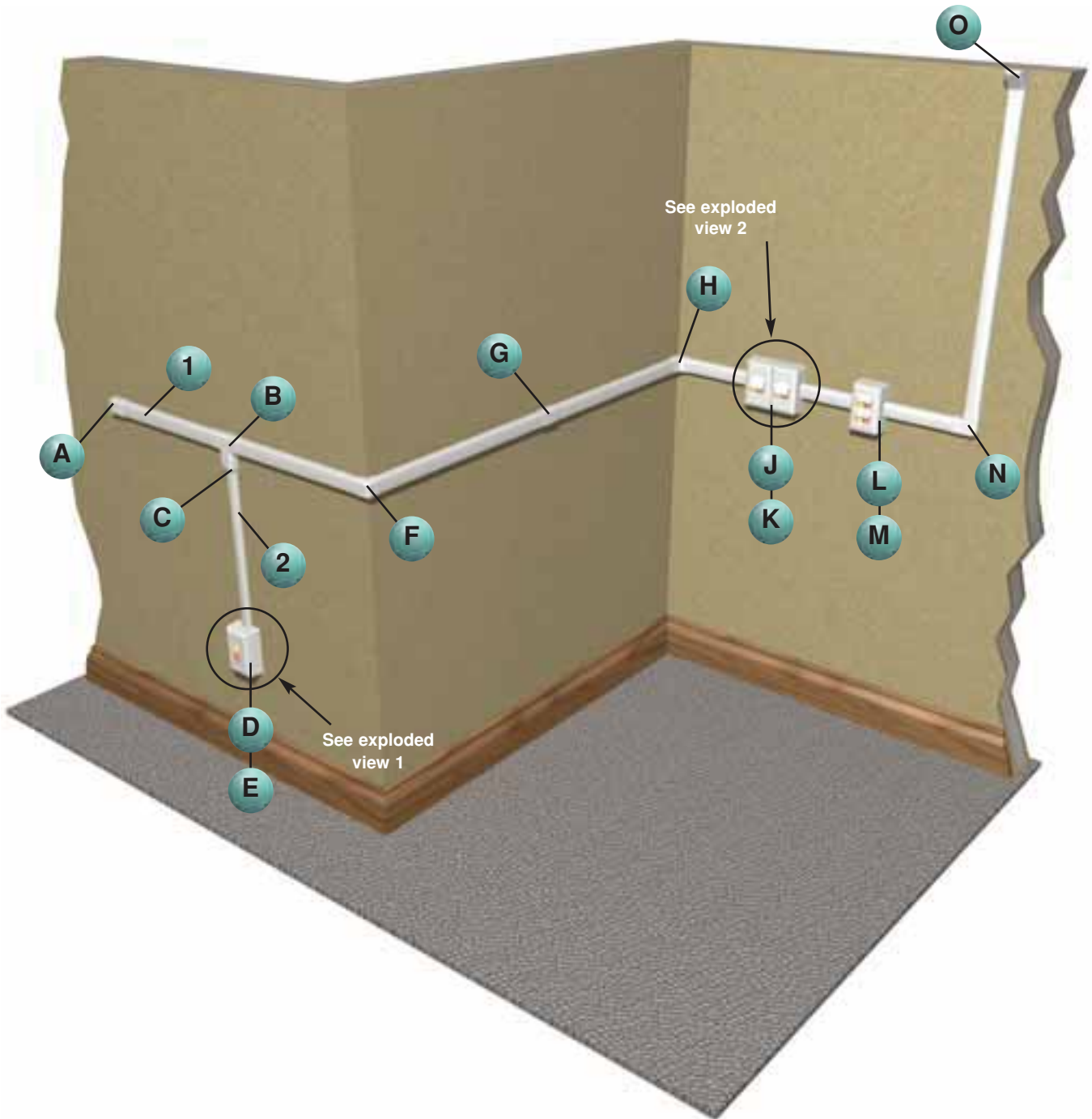
LD2P10 Configurations (continued)

Exploded view 3

Components Required	
A.	UICFPSE2 = <i>ULTIMATE ID™</i> Two-Position Executive Sloped Faceplate.
B.	<i>MINI-COM™</i> Modules.
C.	JBP1D = Power Rated Single Gang Two-Piece Deep Box (screws included).
D.	JBD1 = Single Gang Pass Through Divider for LD2P10 Raceway.

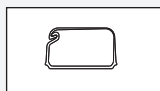


LD Profile Raceway Roadmap

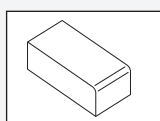




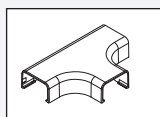
1 LD10 Raceway



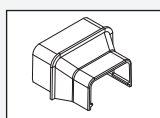
2 LD5 Raceway



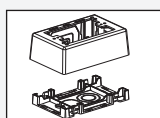
A ECF10** — End Cap Fitting



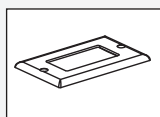
B TF10** — Tee Fitting



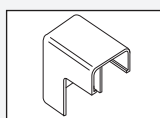
C RF10X5** — Reducer Fitting



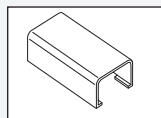
D JBX3510** — Single Gang Two-Piece Snap-Together Box



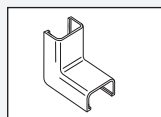
E CPG** — Single Gang Rectangular Screw-On Faceplate



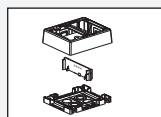
F OCF10** — Outside Corner Fitting



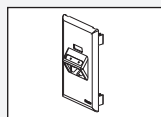
G CF10** — Coupler Fitting



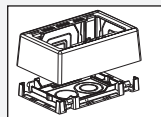
H ICF10** — Inside Corner Fitting



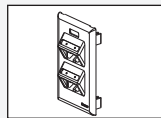
J JBP2FS** — *FAST-SNAP™* Double Gang Power Rated Surface Mount Outlet Box



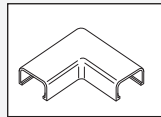
K UIT70FV2** — *ULTIMATE ID™* Sloped Vertical Snap-On Faceplates 2 Position



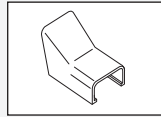
L JB1FS** — *FAST-SNAP™* Single Gang Surface Mount Outlet Box



M UIT70FV4** — *ULTIMATE ID™* Sloped Vertical Snap-On Faceplates 4 Position



N RAF10** — Right Angle Fitting

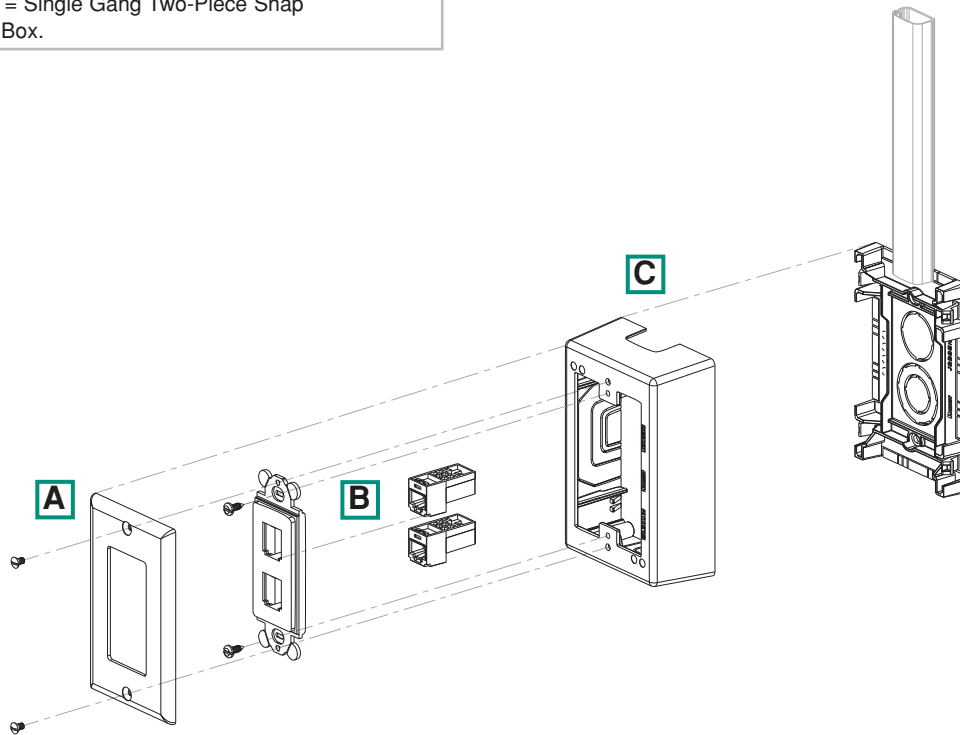


O DCF10** — Drop Ceiling/Entrance End Fitting

LD Configurations

Exploded view 1

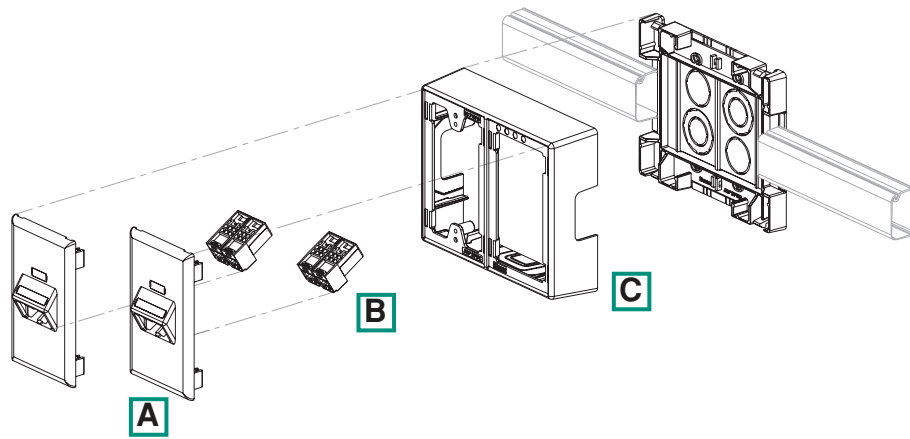
Components Required	
A.	CPG = Single Gang Rectangular Screw-on Faceplate (screws included).
B.	MINI-COM™ Modules.
C.	JBX3510 = Single Gang Two-Piece Snap Together Box.



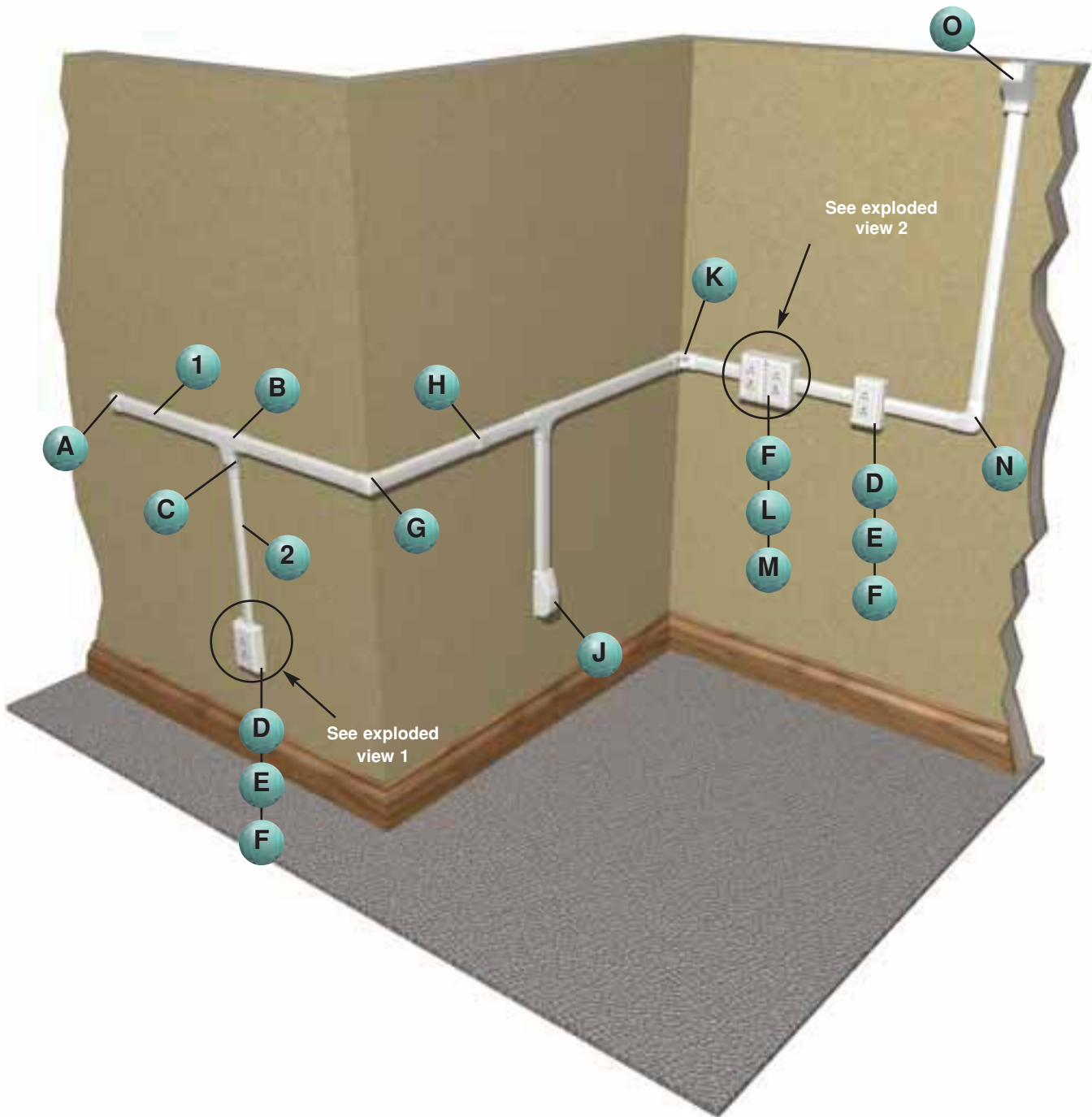
LD Configurations (continued)

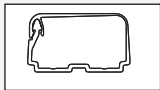
Exploded view 2

Components Required	
A.	UIT70FV2 = <i>ULTIMATE ID™</i> Sloped Vertical Snap-on Faceplate — Two Port.
B.	<i>MINI-COM™</i> Modules.
C.	JBP2FS = <i>FAST-SNAP™</i> Double Gang Power Rated Surface Mount Outlet Box.



LDP Profile Raceway Roadmap

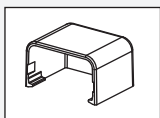




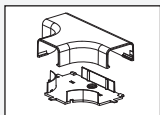
1 LDP10 Raceway



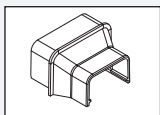
2 LDP5 Raceway



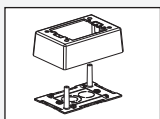
A ECFX10** — Power Rated/1" Bend Radius End Cap Fitting



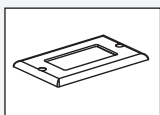
B TFX10** — Power Rated/1" Bend Radius Tee Fitting



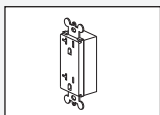
C RFX105** — Power Rated/1" Bend Radius Reducer Fitting



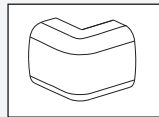
D JBP1** — Power Rated Single Gang Two-Piece Box



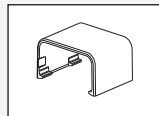
E CPG** — Single Gang Rectangular Screw-On Faceplate



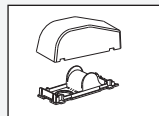
F ERU20** — 20 A Rectangular Electrical Outlet



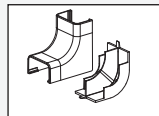
G OCFC10** — Power Rated Outside Corner Fitting



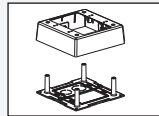
H CFX10** — Power Rated/1" Bend Radius Coupler Fitting



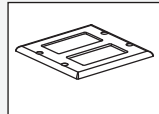
J RAEFX** — Power Rated/1" Bend Radius Right Angle Entrance End Fitting



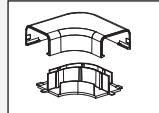
K ICFX10** — Power Rated Inside Corner Fitting



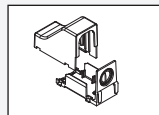
L JBP2** — Power Rated Double Gang Two-Piece Box



M CPG**-2G — Double Gang Rectangular Screw-On Faceplates



N RAFX10** — Power Rated Right Angle Fitting

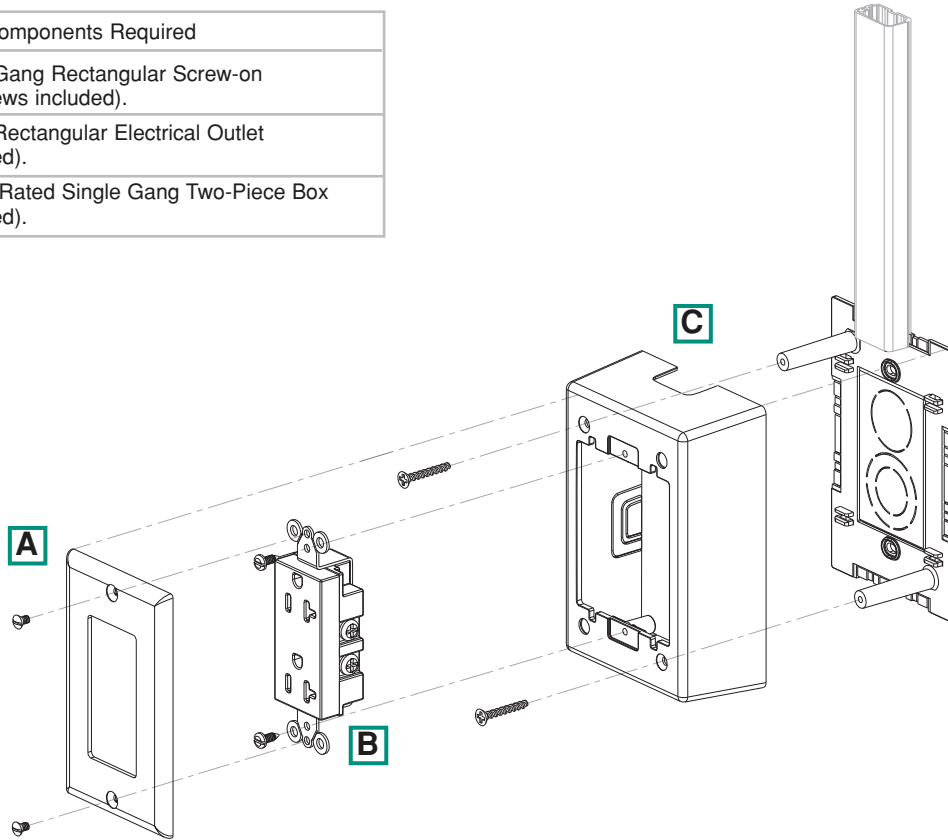


O DCEFX** — Power Rated/1" Bend Radius Drop Ceiling Entrance End Fitting

LDP Configurations

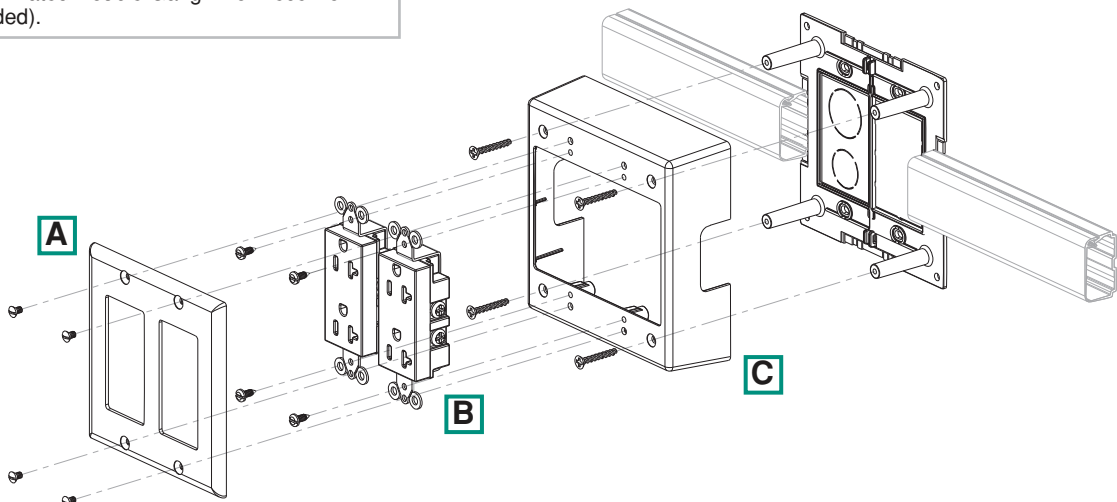
Exploded view 1

Components Required	
A.	CPG = Single Gang Rectangular Screw-on Faceplate (screws included).
B.	ERU20 = 20A Rectangular Electrical Outlet (screws included).
C.	JBP1 = Power Rated Single Gang Two-Piece Box (screws included).



Exploded view 2

Components Required	
A.	CPG**2G = Double Gang Rectangular Screw-on Faceplate (screws included).
B.	ERU20 = 20A Rectangular Electrical Outlet (screws included).
C.	JBP2 = Power Rated Double Gang Two-Piece Box (screws included).

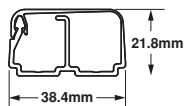




PAN-WAY™ Type LD2P10 Multi-Channel Surface Raceway System

- UL & CSA rated 600V; meets UL5A and CSA C22.2 No. 62.1-03 standards
- Routes power & data together
- One-piece hinged design allows cables to be laid in
- Tamper resistant

- Factory applied adhesive backing speeds installation
- FT-4 Rated for Canada
- Terminates using JBP1D, JBP2D, JBP2FS, or JBP2S surface mount outlet box solutions



LD2P10
Left Internal Area = 277.41mm²
Right Internal Area = 258.06mm²



LD2P10

Part Number	Part Description	Raceway Size	Colour ‡	Length mm	Std. Ctn. Qty.
LD2P10IW8-A	Two channel tamper resistant one-piece latching surface raceway. Supplied with pre-applied adhesive backed tape. Available in 2438.4mm and 3048mm lengths.	38.4mm x 21.8mm	Off White	2438.4	160
LD2P10IW10-A				3048	200

‡ For other colours replace IW (Off White) with EI (Electric Ivory), IG (International Grey), or WH (White).
LD2P Raceway requires screw mounting if it is being used for power cabling applications.
Order number of feet required in multiples of standard length increments.



Multi-Channel Fittings for LD2P10

- Multi-channel fittings for LD2P10 are designed to maintain the TIA/EIA-568-B and 569-B required minimum bend radius for high performance copper and fibre optic cabling systems



CFX10



RAFX10



ICFX10



OCFX10



TFXD10



ECFX10



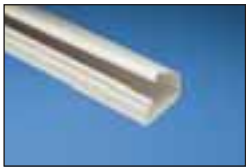
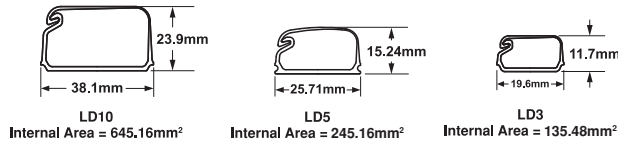
EEFX

Part Number	Part Description	Colour ‡	Std. Pkg. Qty.
CFX10IW-X	Coupler Fitting for use with LD10, LDP10 and LD2P10 Raceway.	Off White	10
RAFX10IW-X	Right Angle Fitting for use with LDP10 and LD2P10 Raceway.	Off White	10
ICFX10IW-X	Inside Corner Fitting for use with LDP10 and LD2P10 Raceway.	Off White	10
OCFX10IW-X	Outside Corner Fitting for use with LDP10 and LD2P10 Raceway.	Off White	10
TFXD10IW-X	Tee Fitting with divided insert to maintain separation of power and data cabling. For use with LD2P10 Raceway.	Off White	10
ECFX10IW-X	End Cap Fitting for use with LDP10 and LD2P10 Raceway.	Off White	10
EEFXIW	Entrance End Fitting for LD2P10 Raceway. Breakouts for 12.7mm, 19.05mm and 25.4mm diameter conduit.	Off White	1

‡ For other colours replace IW (Off White) with EI (Electric Ivory), IG (International Grey) or WH (White).

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
- FT-4 Rated for Canada
- Terminates using surface mount outlet box solutions or *MINI-COM™* Surface Mount Boxes



LD3



LD5



LD10

Part Number	Part Description	Raceway Size	Colour ‡	Length mm	Std. Ctn. Qty.
LD3 — Surface Raceway					
LD3IW6-A	One-piece latching surface raceway. Supplied with pre-applied adhesive backed tape. Available in 1828.8mm, 2438.4mm and 3048mm lengths.	19.6mm x 11.7mm	Off White	1828.8	120
LD3IW8-A				2438.4	160
LD3IW10-A				3048	200
LD5 — Surface Raceway					
LD5IW6-A	One-piece latching surface raceway. Supplied with pre-applied adhesive backed tape. Available in 1828.8mm, 2438.4mm and 3048mm lengths.	25.7mm x 15.24mm	Off White	1828.8	120
LD5IW8-A				2438.4	160
LD5IW10-A				3048	200
LD10 — Surface Raceway					
LD10IW6-A	One-piece latching surface raceway. Supplied with pre-applied adhesive backed tape. Available in 1828.8mm, 2438.4mm and 3048mm lengths.	38.1mm x 23.9mm	Off White	1828.8	120
LD10IW8-A				2438.4	160
LD10IW10-A				3048	200

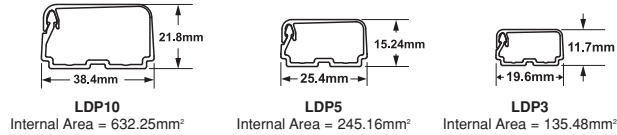
‡ For other colours replace IW (Off White) with EI (Electric Ivory), IG (International Grey) or WH (White).
Order number of feet required in multiples of standard length increments.



PAN-WAY™ LDP Surface Raceway System

- UL & CSA rated 600V; meets UL5A and CSA C22.2 No. 62.1-03 standards
- One-piece hinged design allows cables to be laid in
- Tamper resistant

- Factory applied adhesive backing speeds installation
- FT-4 Rated for Canada
- Terminates using surface mount outlet box solutions or *MINI-COM™* Surface Mount Boxes



LDP3



LDP5



LDP10

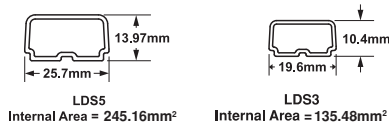
Part Number	Part Description	Raceway Size	Colour ‡	Length mm	Std. Ctn. Qty.
LDP3 — Surface Raceway					
LDP3IW8-A	Tamper resistant one-piece latching surface raceway. Supplied with pre-applied adhesive backed tape. Available in 2438.4mm and 3048mm lengths.	19.6mm x 11.7mm	Off White	2438.4	160
LDP3IW10-A				3048	200
LDP5 — Surface Raceway					
LDP5IW8-A	Tamper resistant one-piece latching surface raceway. Supplied with pre-applied adhesive backed tape. Available in 2438.4mm and 3048mm lengths.	25.4mm x 15.24mm	Off White	2438.4	160
LDP5IW10-A				3048	200
LDP10 — Surface Raceway					
LDP10IW8-A	Tamper resistant one-piece latching surface raceway. Supplied with pre-applied adhesive backed tape. Available in 2438.4mm and 3048mm lengths.	38.4mm x 21.8mm	Off White	2438.4	160
LDP10IW10-A				3048	200

‡ For other colours replace IW (Off White) with EI (Electric Ivory), IG (International Grey) or WH (White).
 LDP Raceway requires screw mounting for power cabling applications.
 Order number of feet required in multiples of standard length increments.

UL SA LISTED SP PAN-WAY™ LDS Surface Raceway System

- UL & CSA rated 600V; meets UL5A and CSA C22.2 No. 62.1-03 standards
- Tamper resistant non-hinged design
- Factory applied adhesive backing speeds installation
- FT-4 Rated for Canada

- Type LDS is **the only non-metallic raceway that is bendable** in low voltage applications to route around and over obstructions
- LDS Raceway requires screw mounting using the LMD mounting straps for power cabling installations
- Terminates using surface mount outlet box solutions or *MINI-COM™* Surface Mount Boxes



LDS3



LDS5



LMD3
LMD5

Part Number	Part Description	Raceway Size	Colour ‡	Length mm	Std. Ctn. Qty.
LDS3 — Surface Raceway					
LDS3IW10-A	Tamper resistant one-piece surface raceway. Supplied with pre-applied adhesive backed tape. Available in 3048mm lengths.	19.6mm x 10.4mm	Off White	3048	200
LDS5 — Surface Raceway					
LDS5IW10-A	Tamper resistant one-piece surface raceway. Supplied with pre-applied adhesive backed tape. Available in 3048mm lengths.	25.7mm x 13.97	Off White	3048	200
Mounting Straps					
LMD3IW-Q	For use with LDS3 Raceway.	Size 3	Off White	—	100
LMD5IW-Q	For use with LDS5 Raceway.	Size 5	Off White	—	100

‡ For other colours replace IW (Off White) with EI (Electric Ivory), IG (International Grey) or WH (White). Order number of feet required in multiples of standard length increments.

Method for Bending Type LDS Raceway (Low Voltage Applications)



STEP 1: Slide 457.2mm to 762mm section of LDS Raceway into PVC pipe heating blanket.
*(Recommended blanket designed for bending 12.7mm to 38.1mm PVC conduit.)



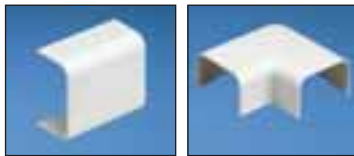
STEP 2: Allow section to heat approximately 2-3 minutes. Raceway will be soft and pliable, but should not stretch. (Time will vary with blanket temperature and raceway size.)



STEP 3: Remove raceway section from blanket and hold in desired position until the raceway cools. Install mounting straps immediately.

*Heating blanket not offered by PANDUIT™.

Standard Fittings for Low Voltage Applications



CF

RAF



ICF

OCF



TF

ECF



CRFC

DCF



FBA

RF

Part Number	Part Description	Colour ‡	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	—
ECF5IW-E	End Cap Fitting for use with LD5 Raceway.	Off White	—
ECF10IW-X	End Cap Fitting for use with LD10 Raceway.	Off White	—
CRFC5IW-X	Four Way Cross Fitting for use with LD5, LDP5 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/LDP5 and LD10/LDP10 Profile Raceway. <i>NOTE: For low voltage applications only.</i>	Off White	10
FBA10IW-X	Fire Box Adapter for use with LD5/LDP5 and LD10/LDP10 Profile Raceway. <i>NOTE: For low voltage applications only.</i>	Off White	10
RF5X3IW-E	Reducer Fitting for LD Raceway from size 5 to size 3. For use with LD5 and LD3 Raceway.	Off White	20
RF10X3IW-X	Reducer Fitting for LD Raceway from size 10 to size 3. For use with LD3 and LD10 Raceway.	Off White	10
RF10X5IW-X	Reducer Fitting for LD Raceway from size 10 to size 5. For use with LD5 and LD10 Raceway.	Off White	10

‡ For other colours replace IW (Off White) with EI (Electric Ivory), IG (International Grey), 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 fibre optic cabling systems



CFX



RAFC



ICFC



OCFX



TFC



CRFC5



ECFX



DCEFX



RAEFX



RFX

Part Number	Part Description	Colour ‡	Std. Pkg. Qty.
CFX3IW-X	Coupler Fitting for use with LD3, LDP3 and LDS3 Raceway.	Off White	10
CFX5IW-X	Coupler Fitting for use with LD5, LDP5 and LDS5 Raceway.	Off White	10
CFX10IW-X	Coupler Fitting for use with LD10, LDP10 and LD2P10 Raceway.	Off White	10
RAFC3IW-X	Right Angle Fitting for use with LD3, LDP3 and LDS3 Raceway.	Off White	10
RAFC5IW-X	Right Angle Fitting for use with LD5, LDP5 and LDS5 Raceway.	Off White	10
RAFC10IW-X	Right Angle Fitting for use with LD10 and LDP10 Raceway.	Off White	10
ICFC3IW-X	Inside Corner Fitting for use with LD3, LDP3 and LDS3 Raceway.	Off White	10
ICFC5IW-X	Inside Corner Fitting for use with LD5, LDP5 and LDS5 Raceway.	Off White	10
ICFC10IW-X	Inside Corner Fitting for use with LD10 and LDP10 Raceway.	Off White	10
OCFX3IW-X	Outside Corner Fitting for use with LDP3 and LDS3 Raceway.	Off White	10
OCFX5IW-X	Outside Corner Fitting for use with LDP5 and LDS5 Raceway.	Off White	10
OCFX10IW-X	Outside Corner Fitting for use with LDP10 and LD2P10 Raceway.	Off White	10
TFC3IW-X	Tee Fitting for use with LD3, LDP3 and LDS3 Raceway.	Off White	10
TFC5IW-X	Tee Fitting for use with LD5, LDP5 and LDS5 Raceway.	Off White	10
TFC10IW-X	Tee Fitting for use with LD10 and LDP10 Raceway.	Off White	10
CRFC5IW-X	Four Way Cross Fitting for use with LD5, LDP5 and LDS5 Raceway.	Off White	10
ECFX3IW-X	End Cap Fitting for use with LDP3 and LDS3 Raceway.	Off White	10
ECFX5IW-X	End Cap Fitting for use with LDP5 and LDS5 Raceway.	Off White	10
ECFX10IW-X	End Cap Fitting for use with LDP10 and LD2P10 Raceway.	Off White	10
DCEFXIW-X	Drop Ceiling/Entrance End Fitting for use with LD3, LDP3, LDS3, LD5, LDP5, LDS5, LD10 and LDP10 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, LDP3, LDS3, LD5, LDP5, LDS5, LD10 and LDP10 Raceways. CA3 or CA5 adapters for LD3 or LD5 Profile Raceway.	Off White	10
RFX53IW-X	Reducer Fitting for use with LD3, LDP3, LDS3, LD5, LDP5 and LDS5 Raceway.	Off White	10
RFX103IW-X	Reducer Fitting for use with LD3, LDP3, LDS3, LD10 and LDP10 Raceway.	Off White	10
RFX105IW-X	Reducer Fitting for use with LD5, LDP5, LDS5, LD10 and LDP10 Raceway.	Off White	10

‡ For other colours replace IW (Off White) with EI (Electric Ivory), IG (International Grey), or WH (White).



Power Rated Fittings for Power to 600V — LDP / LDS / LD2P Raceway Only



CFX



RAFX



ICFX



OCFC



TFX



CRFX



ECFX



DCEFX



RAEFX



RFX

Part Number	Part Description	Colour ‡	Std. Pkg. Qty.
CFX3IW-X	Coupler Fitting for use with LD3, LDP3 and LDS3 Raceway.	Off White	10
CFX5IW-X	Coupler Fitting for use with LD5, LDP5 and LDS5 Raceway.	Off White	10
CFX10IW-X	Coupler Fitting for use with LD10, LDP10 and LD2P10 Raceway.	Off White	10
RAFX3IW-X	Right Angle Fitting for use with LDP3 and LDS3 Raceway.	Off White	10
RAFX5IW-X	Right Angle Fitting for use with LDP5 and LDS5 Raceway.	Off White	10
RAFX10IW-X	Right Angle Fitting for use with LDP10 and LD2P10 Raceway.	Off White	10
ICFX3IW-X	Inside Corner Fitting for use with LDP3 and LDS3 Raceway.	Off White	10
ICFX5IW-X	Inside Corner Fitting for use with LDP5 and LDS5 Raceway.	Off White	10
ICFX10IW-X	Inside Corner Fitting for use with LDP10 and LD2P10 Raceway.	Off White	10
OCFC3IW-X	Outside Corner Fitting for use with LDP3 and LDS3 Raceway.	Off White	10
OCFC5IW-X	Outside Corner Fitting for use with LDP5 and LDS5 Raceway.	Off White	10
OCFC10IW-X	Outside Corner Fitting for use with LDP10 Raceway only.	Off White	10
TFX3IW-X	Tee Fitting for use with LDP3 and LDS3 Raceway.	Off White	10
TFX5IW-X	Tee Fitting for use with LDP5 and LDS5 Raceway.	Off White	10
TFX10IW-X	Tee Fitting for use with LDP10 Raceway only.	Off White	10
CRFX5IW-X	Four Way Cross Fitting for use with LD5, LDP5 and LDS5 Raceway.	Off White	10
ECFX3IW-X	End Cap Fitting for use with LDP3 and LDS3 Raceway.	Off White	10
ECFX5IW-X	End Cap Fitting for use with LDP5 and LDS5 Raceway.	Off White	10
ECFX10IW-X	End Cap Fitting for use with LDP10 and LD2P10 Raceway.	Off White	10
DCEFXIW-X	Drop Ceiling/Entrance End Fitting for use with LD3, LDP3, LDS3, LD5, LDP5, LDS5, LD10 and LDP10 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, LDP3, LDS3, LD5, LDP5, LDS5, LD10 and LDP10 Raceways. CA3 or CA5 adapters for LD3 or LD5 Profile Raceway.	Off White	10
RFX53IW-X	Reducer Fitting for use with LD3, LDP3, LDS3, LD5, LDP5 and LDS5 Raceway.	Off White	10
RFX103IW-X	Reducer Fitting for use with LD3, LDP3, LDS3, LD10 and LDP10 Raceway.	Off White	10
RFX105IW-X	Reducer Fitting for use with LD5, LDP5, LDS5, LD10 and LDP10 Raceway.	Off White	10

‡ For other colours replace IW (Off White) with EI (Electric Ivory), IG (International Grey), or WH (White).

Raceway Adapters for LD Raceway

- Fits into universal breakout of DCEFX or RAEFX fittings
- For use with Types LD3, LDP3 and LDS3 and LD5, LDP5 and LDS5 Raceways



CA3
CA5

Part Number	Part Description	Colour ‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CA3IW-X	Fits into universal breakout of DCEFX or RAEFX fittings. For use LD3, LDP3 and LDS3 Raceway.	Off White	10	50
CA5IW-X	Fits into universal breakout of DCEFX or RAEFX fittings. For use LD5, LDP5 and LDS5 Raceway.	Off White	10	50

‡ For other colours replace IW (Off White) with EI (Electric Ivory), IG (International Grey), or WH (White).

Cable Fill Capacities for LD Profile 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	LDP3	LDP5	LDP10	LD2P10 — Left	LD2P10 — Right	LDS3	LDS5
135.48mm ²	245.16mm ²	645.16mm ²	135.48mm ²	245.16mm ²	645.16mm ²	277.41mm ²	322.58mm ²	135.48mm ²	245.16mm 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.

MAX for Power cable fill — The maximum of electrical cables based on UL temperature rise test.

Raceway Type & Configuration	Fill Area mm ²	Electrical Cables			Data Grade Cable		Data Grade Cable		Audio/Video		Fibre Optic Cable	
		14 AWG	12 AWG	10 AWG	24 AWG/UTP CM	24 AWG/UTP CM	RG6		2 Strand			
		THHN/T90			Cat 5e (4pr)		Cat 6 (4pr)		DIA. = 6.9mm		DIA. = 4.4mm	
		2.7mm	3.0mm	3.8mm	DIA. = 5.5mm		DIA. = 6.35mm		DIA. = 6.9mm		DIA. = 4.4mm	
		FILL			FILL		FILL		FILL		FILL	
MAX	MAX	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	MAX	
(UL Temp Rise Test)			(40%)	(60%)	(40%)	(60%)	(40%)	(60%)	(40%)	(60%)	(40%)	(60%)
LD3	135.48	—	—	—	2	3	1	2	1	2	4	5
LD5	245.16	—	—	—	4	6	3	4	2	3	6	9
LD10	645.16	—	—	—	10	16	8	12	5	8	16	24
LDP3	135.48	9	7	4	2	3	1	2	1	2	3	5
LDP5	245.16	14	12	8	4	6	3	4	2	3	6	9
LDP10	645.16	18	18	16	10	15	7	11	5	8	16	16
LD2P10-Left Channel.	277.41	14	11	8	4	6	3	5	2	3	7	11
LD2P10-Right Channel.	322.58	—	—	—	5	8	4	6	3	4	8	12
LDS3	135.48	9	6	4	2	3	1	2	1	2	3	5
LDS5	245.16	10	8	5	4	6	3	4	2	3	6	9

CABLE TIES & ACCESSORIES

PANDUIT™ is a leading global producer of communication products, including cable ties and cable management accessories. We continually provide new cable tie and accessory designs to meet the application challenges encountered by our customers while providing the lowest installed cost.



- Hook & Loop cable ties are releasable and reusable; ideal for communications applications
- Parallel entry ties are designed to eliminate protrusion of cut-off tie
- Nylon cable ties offered in the largest selection of styles, sizes and colours
- Select cable tie sizes are available in HALAR[®], Tefzel[™], Acetal and Polypropylene to meet your application needs
- Full line of accessories specifically designed to route and secure communication cable
- Stainless steel cable ties withstand virtually any environment
- Complete line of abrasion protection and heat shrink products

PANDUIT offers unique products to meet customer needs:

TAK-TY™ Hook & Loop Cable Ties - prevent over-tensioning of high performance cables

CONTOUR-TY™ Cable Ties - low profile head and smooth, round edges

BELT-TY™ In-Line Cable Ties - head design prevents protrusion of cut-off tie

TAK-TY™ Hook & Loop Cable Tie Mounts - designed to secure bundles of communications wiring

J-MOD™ Cable Support System - versatile solution for communication cable management

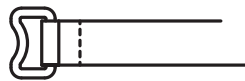
PAN-STEEL™ Self-Locking Stainless Steel Ties - feature the highest tensile strength, quickest lock up and lowest installation time, with fully rounded edges for added protection and safety

PAN-WRAP™ Split Harness Wrap - engineered for flexibility and maximum protection of wires and cables

Please refer to catalogue "Cable Tie and Wiring Accessories" for information on the complete PANDUIT line of cable ties and cable management accessories.

[®] HALAR is the registered trademark for Ausimont, Inc. Fluoropolymer
[™] Tefzel is the registered trademark for E.I. DuPont Co. Fluoropolymer

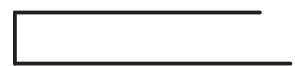
TAK-TY™ Hook & Loop Cable Ties



HLC



HLT / HLTP



HLS / HLSP / HLM

- Material has hooks on one side and loops on the other so it adheres to itself
- Releasable and reusable hundreds of times and no installation tool needed
- No risk of over-tensioning and damaging high performance cabling
- No waste since excess can be wrapped around bundle
- A variety of colours are available for HLM, HLS and HLT styles
- HLSP and HLTP (black and maroon) are unique Hook & Loop style ties that are UL Listed (File #E56854) for use in air handling spaces, per NEC, Section 300-22(c) and (d), and are UL94V-2 flame rated

- HLM series may be used with ABM3H, ABM4H and TMEH mounts (see pages 336 and 337)
- HLT series may be used with TMEH mount
- All styles may be used with ABMT mount (see page 336)

Note: Minimum 50mm overlap required to achieve loop tensile rating (HLC, HLT, HLS and HLM series); and UL Listed Rated Load (HLSP / HLTP series)



HLTP / HLSP Only

Part Number	Length mm	Width mm	Max. Bundle Dia. mm	Min. Loop Tensile Str. N	Std. Pkg. Qty.	Std. Ctn. Qty.
Cinch Ties - Provide extra strength and bundle tightness						
HLC3S-X0	305	19.1	76	222	10	100
HLC5S-X0	457	19.1	127	222	10	100
Loop Ties - Slot allows for pre-wrapping of bundles						
HLT2I-X0	203	12.7	49	178	10	100
HLT3I-X0	305	12.7	81	178	10	100
Strip Ties - Rolls perforated in convenient 152.4mm, 304.8mm, and 457.2mm strips						
HLTP2I-X12	203	12.7	49	178	10	100
HLTP3I-X12	305	12.7	81	178	10	100
Strip Ties - Rolls perforated in convenient 152.4mm, 304.8mm, and 457.2mm strips						
HLS1.5S-X0	152	19.1	38	222	10	100
HLS3S-X0	305	19.1	81	222	10	100
HLS5S-X0	457	19.1	127	222	10	100
UL Listed Loop Ties+						
HLSP1.5S-X12	152	19.1	38	222	10	100
HLSP3S-X12	305	19.1	81	222	10	100
HLSP5S-X12	457	19.1	127	222	10	100
15' & 75' Rolls - Can be cut to desired length, eliminating waste						
HLM-15R0	4,572	8.4	Various	80	1	10
HLS-15R0	4,572	19.1	Various	222	1	10
HLS-75R0	22,860	19.1	Various	222	1	10

+ Also available in Black (-X0), which has an 80N minimum loop tensile strength

NEW! **TAK-TAPE™ Hook & Loop Strips**



TTS-20R0

- Hook & Loop fastener for general purpose bundling
- Thin and flexible to quickly wrap around bundle
- Adjustable, releasable and reusable
- Large continuous roll you can cut to size with Telco snips, scissors or PANDUIT™ cutter (included with TTS-35RX0 only)
- Wide 19.05mm black strap spreads out bundling forces over large area
- May be used with ABMT mount (see page 336)
- Handy, reusable plastic case (TTS20) keeps material clean

Note: Minimum 50.8mm overlap required to achieve loop tensile rating

Part Number	Length	Width	Max. Bundle Dia.	Min. Loop Tensile Str.	Std. Pkg. Qty.	Std. Ctn. Qty.
	M	mm	mm	N		
TTS-20R0	6	19.1	Various	178	1	10
TTS-35RX0	11	19.1	Various	178	1	10

Std. Pkg. Qty. of TTS-35RX0 denotes 1 package of ten 35' rolls

NEW!



CONTOUR-TY™ Cable Ties

- Low profile head and smooth, round edges, prevent cable damage
- Unique design avoids abrasion to cables
- Parallel entry limits exposure to sharp edges to protect adjacent cables and workers' arms and hands
- Reliable locking mechanism provides consistent strength and lasting performance
- Outside serrations on strap prevent pinching the cable jacket
- Five cross sections available including the new Heavy-Standard size
- All cable tie cross sections have a curved tip that is easier to pick up from flat surfaces, allows faster initial threading and speeds installation
- Material: Nylon 6.6 (see Material Selection Guide for additional sizes, materials and colours available)



Part Number	Length	Width	Max. Bundle Dia.	Min. Loop Tensile Str.	Tool	Bulk Pkg. Qty.	Bulk Ctn. Qty.
	mm	mm	mm	N			
Miniature Cross Section							
CBR1M-M	104	2.5	25	80	GTS, GS2B, PTS, PPTS, STS2	1000	50000
CBR1.5M-M	142	2.5	38	80		1000	50000
CBR2M-M	183	2.5	51	80		1000	25000
Intermediate Cross Section							
CBR1.5I-M	150	3.6	38	178	GTS, GS2B, PTS, PPTS, STS2	1000	25000
CBR3I-M	264	3.6	76	178		1000	10000
CBR4I-M	345	3.6	102	178		1000	10000
Standard Cross Section							
CBR2S-M	193	4.8	51	222	GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2, STH2	1000	10000
CBR3S-M	274	4.8	76	222		1000	5000
CBR4S-M	356	4.8	102	222		1000	5000
Heavy-Standard Cross Section							
CBR2HS-D	203	6.4	51	378	GTH, GS4H, GS4EH, STH2, ST2EH	500	5000
Light-Heavy Cross Section							
CBR4LH-TL	371	7.6	102	534	GTH, GS4H, GS4EH, PPTEH, STH2, ST2EH	250	2500
CBR6LH-C	531	7.6	152	534		100	2000

UL™ **UL**™ **LISTED** **BELT-TY™ In-Line Cable Tie**

Parallel-entry cable tie that threads like a belt (180° entry)

- Head design prevents protrusion of cut-off to protect adjacent cables and workers' arms and hands
- Low profile head prevents snags and reduces overall bundle size
- Fully rounded edges on head and strap prevent sharp edges from coming in contact with cable insulation
- Exclusively designed tip assures positive grip during threading of tie
- All cable tie cross sections smaller than Light-Heavy have a curved tip that is easier to pick up from flat surfaces, allows faster initial threading and speeds installation
- Material: Nylon 6.6 (see Material Selection Guide for additional sizes, materials and colours available)



Part Number	Length mm	Width mm	Max. Bundle Dia. mm	Min. Loop Tensile Str. N	Tool	Bulk Pkg. Qty.	Bulk Ctn. Qty.
Miniature Cross Section							
ILT1M-M	122	2.5	28	80	GTS, GS2B, PTS, PPTS, STS2	1000	50000
Intermediate Cross Section							
ILT1.5I-M	137	3.6	35	133	GTS, GS2B, PTS, PPTS, STS2	1000	25000
Standard Cross Section							
ILT2S-M	211	4.8	48	222	GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2, STH2	1000	10000
ILT3S-M	292	4.8	76	222		1000	5000
ILT4S-M	373	4.8	102	222		1000	5000
Light-Heavy Cross Section							
ILT4LH-TL	376	7.6	102	534	GTH, GS4H, GS4EH, PPTEH, STH2, ST2EH	250	2500
ILT6LH-C	538	7.6	152	534		100	2000



PAN-TY™ Cable Ties

- Versatile cable ties that can be used in countless applications
- One piece construction for consistent performance and reliability
- Tie bundle diameters up to (330mm) or join together for larger diameters
- All cable tie cross sections smaller than Light-Heavy have a curved tip that is easier to pick up from flat surfaces, allows faster initial threading and speeds installation
- High strength and low thread force
- Material: Nylon 6.6 (see Material Selection Guide for additional sizes, materials and colours available)



Part Number	Length mm	Width mm	Max. Bundle Dia. mm	Min. Loop Tensile Str. N	Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section							
PLT1M-C	99	2.5	22	80	GTS, GS2B, PTS, PPTS, STS2	100	1000
PLT1.5M-C	142	2.5	32	80		100	1000
PLT2M-C	203	2.5	51	80		100	1000
Intermediate Cross Section							
PLT1.5I-C	142	3.6	35	178	GTS, GS2B, PTS, PPTS, STS2	100	1000
PLT2I-C	203	3.6	51	178		100	1000
PLT2.5I-C	246	3.7	64	178		100	1000
PLT3I-C	290	3.7	76	178		100	1000
PLT4I-C	368	3.7	102	178		100	1000
Standard Cross Section							
PLT1S-C	122	4.8	25	222	GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2, STH2	100	1000
PLT1.5S-C	157	4.8	38	222		100	1000
PLT2S-C	188	4.8	48	222		100	1000
PLT2.5S-C	249	4.8	64	222		100	1000
PLT3S-C	292	4.8	76	222		100	1000
PLT4S-C	368	4.8	102	222		100	1000
PLT4.5S-C	394	4.8	114	222		100	1000
PLT5S-C	445	4.8	127	222		100	500
Light-Heavy Cross Section							
PLT6LH-L	556	7.6	152	534	GTH, GS4H, GS4EH, PPTEH, STH2, ST2EH	50	500
PLT7LH-L	627	7.6	178	534		50	500
PLT9LH-L	775	7.6	229	534		50	500
PLT10LH-L	871	7.6	262	534		50	1000
Heavy Cross Section							
PLT2H-L	206	7.6	51	534	GTH, GS4H, GS4EH, PPTEH, STH2, ST2EH	50	500
PLT2.5H-L	251	7.6	64	534		50	500
PLT3H-L	290	7.6	76	534		50	500
PLT4H-L	368	7.6	102	534		50	500
PLT5H-L	450	8.9	127	778		50	500
PLT6H-L	530	8.9	152	778		50	500
PLT8H-L	779	8.9	229	778		50	500
PLT13H-Q	1100	8.9	330	778		25	500
Extra-Heavy Cross Section							
PLT5EH-Q	511	12.7	127	1112	GS4EH, PPTEH, ST2EH	25	250
PLT6EH-Q	564	12.7	152	1112		25	250



PAN-TY™ HALAR[®] Cable Ties

HALAR cable ties are UL Listed and UL Recognized as: *Suitable For Use In Air Handling Spaces per NEC, Section 300-22 (c) and (d)*

- Commonly accepted solution for bundling qualified cable without conduit in air handling space applications
- Applications include nuclear plants, chemical environments, telecommunications equipment, aerospace, and high and low temperature environments
- Low smoke density rating and an excellent flammability rating of UL94V-0
- Distinctive maroon colour identifies material

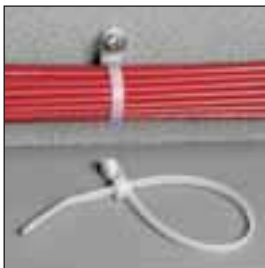


Part Number	Length mm	Width mm	Max. Bundle Dia. mm	Min. Loop Tensile Str. N	Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section							
PLT1M-C702	102	2.5	22	80	GTS, GS2B, PTS, PPTS, STS2	100	1000
Standard Cross Section							
PLT2S-C702	188	4.8	48	222	GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2, STH2	100	1000
PLT3S-C702	295	4.8	76	222		100	1000

*HALAR is the registered trademark for Ausimont Inc. Fluoropolymer



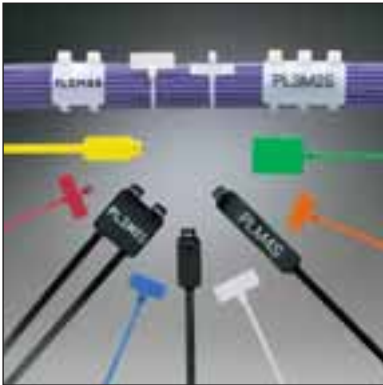
PAN-TY™ Clamp Ties



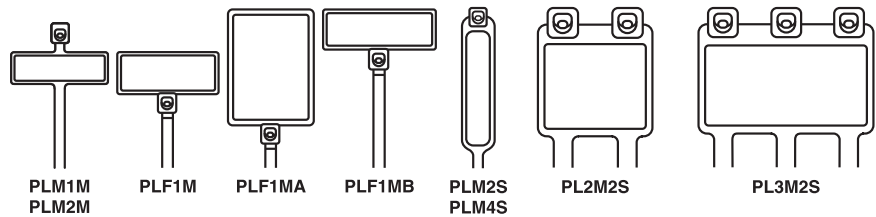
- Used to secure a wire bundle to another surface such as a control panel, wall or ceiling
- Design allows for bundling before or after screwing clamp in place
- All cable tie cross sections have a curved tip that is easier to pick up from flat surfaces, allows faster initial threading and speeds installation
- Material: Nylon 6.6 (see Material Selection Guide for additional sizes, materials and colours available)

Part Number	Length mm	Width mm	Max. Bundle Dia. mm	Min. Loop Tensile Str. N	Metric Screw Size	Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
Miniature Cross Section								
PLC1M-S4-C	110	2.5	20	80	M2.5	GTS, GS2B, PTS, PPTS, STS2	100	1000
Intermediate Cross Section								
PLC1.5I-S8-C	156	3.4	32	178	M4	GTS, GS2B, PTS, PPTS, STS2	100	1000
Standard Cross Section								
PLC2S-S6-C	201	4.8	47	222	M3	GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2, STH2	100	1000
PLC2S-S10-C	201	4.8	47	222	M5		100	1000
PLC3S-S10-C	305	4.8	76	222	M5		100	1000
PLC4S-S10-C	381	4.8	102	222	M5		100	1000
Heavy Cross Section								
PLC2H-S25-L	228	7.6	51	534	M6	GTH, GS4H, GS4EH, PPTEH, STH2, ST2EH	50	500
PLC4H-S25-L	384	7.6	102	534	M6		50	500

PAN-TY™ Marker & Flag Cable Ties



- Used to fasten and identify bundles at the same time
- May be marked with *PANDUIT™* Marker Pens or Computer Printable Labels
- Custom imprinting with text, symbols or trademarks available using *PANDUIT* Custom Hot Stamping Service
- All cable tie cross sections have a curved tip that is easier to pick up from flat surfaces, allows faster initial threading and speeds installation
- Material: Nylon 6.6 (see Material Selection Guide for additional sizes, materials and colours available)



Part Number	Length mm	Width mm	Max. Bundle Dia. mm	Min. Loop Tensile Str. N	Write-On Area mm	Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
PLF1M-C	109	2.5	22	80	7.9 x 19.1	GTS, GS2B, PTS, PPTS, STS2	100	1000
PLF1MA-C	130	2.5	22	80	19.1 x 26.4		100	1000
PLF1MB-C	101	2.5	19	80	7.9 x 23.4		100	1000
PLM1M-C	99	2.5	19	80	6.6 x 24.1		100	1000
PLM2M-C	203	2.5	51	80	6.6 x 24.1		100	1000
Standard Cross Section								
PLM2S-C	188	4.7	45	222	11.1 x 22.1	GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2, STH2	100	1000
PLM4S-C	371	4.7	102	222	11.1 x 50.8		100	1000
PL2M2S-L	188	4.7	45	222	22.1 x 27.2		50	500
PL3M2S-L	188	4.7	45	222	22.1 x 45.5		50	500

HOT STAMPING — Custom Printed Cable Ties



PANDUIT offers a custom service to suit your unique application requirements. A wide variety of information can be imprinted on *PANDUIT* cable ties, marker ties and marker plates.

Printing is done utilising a durable “Hot Stamping” process that is an economical and convenient way to permanently mark cable ties.

Customize with a wide variety of choices:

- Seven basic text colours
- Special logos can be imprinted with camera-ready artwork supplied by the customer
- Alphanumeric and sequential numbering for serialisation
- Minimum Order: 5,000 pcs. per Part Number / Message



DOME-TOP™ Barb Ty Cable Ties

- DOME-TOP™ head features unique patented design with round, smooth edges
- Stainless steel locking barb provides consistent performance, reliability and infinite adjustability through its entire bundle range
- High strength and low thread force
- All cable tie cross sections smaller than Light-Heavy have a curved tip that is easier to pick up from flat surfaces, allows faster initial threading and speeds installation
- Material: Nylon 6.6 (see Material Selection Guide for additional sizes, materials and colours available)



Part Number	Length	Width	Max. Bundle Dia.	Min. Loop Tensile Str.	Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm	mm	mm	N			

Miniature Cross Section

BT1M-C	102	2.4	23	80	GTS, GS2B, PTS, PPTS, STS2	100	1000
BT1.5M-C	160	2.4	38	80		100	1000
BT2M-C	201	2.4	51	80		100	1000
BT4M-C	361	2.4	102	80		100	1000

Intermediate Cross Section

BT1.5I-C	155	3.6	38	178	GTS, GS2B, PTS, PPTS, STS2	100	1000
BT2I-C	203	3.6	51	178		100	1000
BT3I-C	288	3.6	76	178		100	1000
BT4I-C	363	3.6	102	178		100	1000

Standard Cross Section

BT2S-C	203	4.7	51	222	GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2, STH2	100	1000
BT3S-C	305	4.7	76	222		100	1000
BT4S-C	384	4.7	102	222		100	1000

Light-Heavy Cross Section

BT2LH-L	221	7.0	51	534	GTH, GS4H, GS4EH, PPTEH, STH2, ST2EH	50	500
BT3LH-L	300	7.0	76	534		50	500
BT4LH-L	378	7.0	102	534		50	500
BT6LH-L	538	7.0	152	534		50	500
BT7LH-L	620	7.0	178	534		50	500
BT8LH-L	699	7.0	203	534		50	500
BT9LH-L	780	7.0	229	534		50	500



DOME-TOP™ Barb Ty Clamp Cable Ties



- Used to secure a wire bundle to another surface such as a control panel, wall or ceiling
- Design allows for bundling before or after screwing clamp in place
- All cable tie cross sections smaller than Light-Heavy have a curved tip that is easier to pick up from flat surfaces, allows faster initial threading and speeds installation
- Material: Nylon 6.6 (see Material Selection Guide for additional sizes, materials and colours available)

Part Number	Length	Width	Max. Bundle Dia.	Min. Loop Tensile Str.	Metric Screw Size	Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm	mm	mm	N				

Miniature Cross Section

BC1M-S4-M	117	2.4	23	80	M2.5	GTS, GS2B, PTS, PPTS, STS2	1000	50000
BC2M-S4-M	211	2.4	51	80	M2.5		1000	25000

Intermediate Cross Section

BC1.5I-S8-M	168	3.6	38	178	M4	GTS, GS2B, PTS, PPTS, STS2	1000	25000
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Standard Cross Section

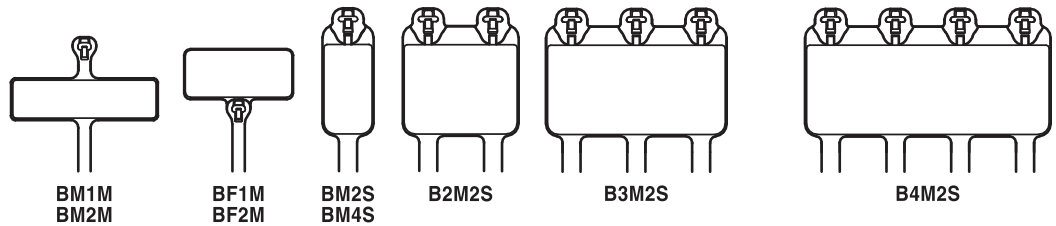
BC2S-S10-D	216	4.7	51	222	M5	GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2, STH2	500	10000
BC4S-S10-C	396	4.7	102	222	M5		100	1000

Light-Heavy Cross Section

BC4LH-S25-L	394	7.0	102	534	M6	GTH, GS4H, GS4EH, PPTEH, STH2, ST2EH	50	500
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RATM US DOME-TOP™ Barb Ty Marker & Flag Ties

- Used to fasten and identify bundles at the same time
- May be marked with PANDUIT™ Marker Pens or Computer Printable Labels
- Custom imprinting with text, symbols or trademarks available using PANDUIT Custom Hot Stamping Service
- All cable tie cross sections have a curved tip that is easier to pick up from flat surfaces, allows faster initial threading and speeds installation
- Material: Nylon 6.6 (see Material Selection Guide for additional sizes, materials and colours available)



Part Number	Length	Width	Max. Bundle Dia.	Min. Loop Tensile Str.	Write-On Area	Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm	mm	mm	N	mm			
Miniature Cross Section								
BM1M-C	107	2.4	23	80	7.4 x 27.7	GTS, GS2B, PTS, PPTS, STS2	100	1000
BM2M-C	201	2.4	51	80	7.4 x 27.7		100	1000
BF1M-C	116	2.4	23	80	9.1 x 20.6		100	1000
BF2M-C	211	2.4	51	80	9.1 x 20.6		100	1000
Standard Cross Section								
BM2S-C	203	4.7	51	222	12.4 x 23.1	GTS, GS2B, GTH, GS4H, PTS, PPTS, STS2, STH2	100	1000
BM4S-C	384	4.7	102	222	12.7 x 54.1		100	1000
B2M2S-D	203	4.7	51	222	29.2 x 23.1		500	2500
B3M2S-TL	203	4.7	51	222	46.0 x 23.1		250	2500
B4M2S-TL	203	4.7	51	222	62.7 x 23.1		250	2500

DURA-TY™ Cable Ties

- Ideal for all outdoor messenger strand applications including telephone, cable TV, traffic signals and outside plant power services
- Double stainless steel, type 302, locking barb
- High tensile strength and high impact resistance
- Excellent chemical and moisture resistance
- Meets Telcordia TR-TSY-000789
- May be used with Stackable Cable Spacer, SACS50-T100, shown below (see page 330 for part information)
- Material: Weather Resistant Acetal strap body and head



Part Number	Length	Strap Width	Max. Bundle Dia.	Min. Loop Tensile Str.	Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm	mm	mm	N			
Extra-Heavy Cross Section							
DT4EH-L0	343	12.7	98	1112	GTH, GS4EH, ST2EH	50	1000
DT8EH-Q0	686	12.7	203	1112		25	500



Part Number	Description	Length	Strap Width	Min. Loop Tensile Str.	Tool	Std. Pkg. Qty.	Std. Ctn. Qty.
		M	mm	N			
Strapping, Heads and Kit							
DTREH-LR0	50' reel of strapping	15	12.7	1112	GTH, GS4EH, ST2EH	1	20
DTHEH-Q0	Bag of 25 cable tie heads	—	—	—	—	25	500
DTKEH-0	Kit containing 50' reel of strapping and 25 cable tie heads	15	12.7	1112	GTH, GS4EH, ST2EH	1	20

Stackable Cable Spacer



- Manufactured from Black Weather Resistant Polypropylene
- For use with *DURA-TY™* Cable Ties (see page 9) or *PAN-STEEL™* Metal Locking Ties (see page 23)
- For indoor/outdoor use
- Each spacer snaps into another to increase spacer heights by 1/2" increments
- Designed to be used in parallel and perpendicular applications

Part Number	Length	Width	Bulk Pkg. Qty.	Bulk Ctn. Qty.
	mm	mm		
SACS50-T100	52.8	29.5	200	2000

NEW! Ergonomic Cable Tie Installation Tools



PANDUIT™ ergonomic cable tie installation tools reduce worker fatigue, increase productivity and provide the lowest total installed cost. These tools automatically and consistently control tension and cut-off of the cable tie during installation.

- Lightweight, ergonomic design is comfortable to use and reduces operator fatigue
- Exceeds industry standards for tool operation to provide high reliability for maximum tool life
- Narrow nose improves visibility and access to bundles in confined areas
- Flush cut-off protects adjacent cables and workers' arms and hands
- Tension adjustment conveniently located at the rear of the tool to help quickly and easily change and confirm tension settings to improve installer productivity



Part Number	Description	Std. Pkg. Qty.
GTS	Installs Subminiature, Miniature, Intermediate and Standard cross section cable ties. Qualified Product Listed per Mil. Std. MS90387-1 and Mil. Spec. MIL-T-81306A. Colour identification: black trigger handle Body: grey plastic housing with black selector knob Weight: 8.8 oz. (249g)	1
GTH	Installs Standard, Heavy-Standard, Light-Heavy and Heavy cross section cable ties. Colour identification: red trigger handle Body: grey plastic housing with red selector knob Weight: 11.2 oz. (318g)	1

PAN-TY™ Cable Ties

Part Number System (Example of PLT2S-C)

PLT	2	S	C	
Part Description	Size	Cross Section	Screw Hole Size	Package Size
PLT = Locking Tie	Approx.	SM = Subminiature	(Clamp Ties Only)	Q = 25
PRT = Releasable Tie	Maximum	M = Miniature	-S4 = #4 (M2.5)	L = 50
PLC = Locking Clamp	Bundle	I = Intermediate	-S6 = #6 (M3)	C = 100
PLF = Locking Flag	Dia. (In)	S = Standard	-S8 = #8 (M4)	TL = 250
PLM = Locking Marker		LH = Light-Heavy	-S10 = #10 (M5)	D = 500
		H = Heavy	-S25 = 1/4 (M6)	M = 1000
		EH = Extra-Heavy		
				Colour
				See chart below for colours and materials available

Material / Colour Chart					
Material - Colour	PANDUIT™ Suffix*	Mil Spec Suffix**	Material - Colour	PANDUIT™ Suffix*	Mil Spec Suffix**
Nylon 6.6 - Natural (See Note)	.3	.9	Heat Stabilized Nylon 6.6 - Black	.30	.N/A
Weather Resistant Nylon 6.6 - Black	.0	.N/A	Heat Stabilized Nylon 6.6 - Natural	.39	.N/A
WR Nylon 6.6 - Black (Meets Mil. Spec.)	.00	.0	Nylon 6.6 - Fluorescent Orange	.53	.N/A
Nylon 6.6 - Brown	.1	.1	Nylon 6.6 - Fluorescent Yellow	.54	.N/A
Nylon 6.6 - Red	.2	.2	Nylon 6.6 - Fluorescent Green	.55	.N/A
Nylon 6.6 - Orange	.3	.3	Nylon 6.6 - Fluorescent Pink	.59	.N/A
Nylon 6.6 - Yellow	.4	.4	Flame Retardant Nylon 6.6 - Ivory	.69	.N/A
Nylon 6.6 - Green	.5	.5	TEFZEL™ - Aqua Blue	.76	.N/A
Nylon 6.6 - Blue	.6	.6	Weather Resistant Polypropylene - Black	.100	.N/A
Nylon 6.6 - Purple	.7	.7	Natural Polypropylene - Green	.109	.N/A
Nylon 6.6 - Grey	.8	.8	Nylon 12 - Black	.120	.N/A
Nylon 6.6 - White	.10	.N/A	Heat Stabilized WR Nylon 6.6 - Black	.300	.N/A
Nylon 6.6 - Telephone Grey	.14	.N/A	HALAR™ - Maroon	.702	.N/A
Nylon 6.6 - Black	.20	.N/A			

* Note: 3 denotes PANDUIT standard Natural Nylon 6.6 (no suffix required in part number)

** Note: Mil. Spec. colour suffix per SAE AS33671 and AS33681 (formerly MS3367 and MS3368)

Part Number Availability List

Standard Packaging			Bulk Packaging		
Part Number	Natural Nylon 6.6	Colour / Material Suffix	Part Number	Natural Nylon 6.6	Colour / Material Suffix
PLC1M-S4-C	3	0	PLC1M-S4-M	3	0,30
PLC1.5I-S8-C	3	0	PLC1.5I-S8-M	3	0,30
PLC2S-S6-C	3	0	PLC2S-S6-M	3	0
PLC2S-S10-C	3	0,14	PLC2S-S10-M	3	0,20,30
PLC3S-S10-C	3	0	PLC3S-S10-M	3	0
PLC4S-S10-C	3	0	PLC4S-S10-M	3	0,30
PLC2H-S25-L	3		PLC2H-S25-TL	3	0
PLC4H-S25-L	3	0	PLC4H-S25-TL	3	0,30
PLF1M-C	3	0	PLF1M-M	3	0,2,3,4,6,10,69
PLF1MA-C	3	3,4	PLF1MA-M	3	0,2,3,4,5,6,10
PLF1MB-C	3		PLF1MB-M	3	
PLM1M-C	3	0	PLM1M-M	3	0,1,2,3,4,5,6,7,8,10,69
PLM2M-C	3		PLM2M-M	3	0,4,6
PLM2S-C	3	0	PLM2S-D	3	0,2,3,4,5,6,8
PLM4S-C	3		PLM4S-D	3	0,2,4,6

PAN-TY™ Cable Ties (continued)

Part Number Availability List

Standard Packaging			Bulk Packaging		
Part Number	Natural Nylon 6.6	Colour / Material Suffix	Part Number	Natural Nylon 6.6	Colour / Material Suffix
PL2M2S-L	3		PL2M2S-D	3	0,4,10
PL3M2S-L	3		PL3M2S-D	3	0,4
PLP1.5I-C	3		PLP1.5I-M	3	0,30
			PLP1S-M	3	0,30
			PLP1.5S-M	3	
PLP2S-C	3		PLP2S-M	3	0,30
PLT.6SM-C	3	0	PLT.6SM-M	3	0,30
PLT.7M-C	3		PLT.7M-M	3	0,30
PLT1M-C	3	0,00,1,2,3,4,5,6,7,8,10,14,30,76,702	PLT1M-M	3	0,00,1,2,3,4,5,6,7,8,10,14,20,30,53,54,55,59,69,76,100,109,120,300,702
			PLT1M-XMR	3	0,1,2,3,4,5,6,7,8,10,30
PLT1.5M-C	3	0	PLT1.5M-M	3	0,00,2,4,5,6,8,10,14,20,30
			PLT1.5M-XMR	3	0,30
PLT2M-C	3	0	PLT2M-M	3	0,1,2,3,4,5,6,7,8,10,20,30,69
PLT1.5I-C	3	0,1,2,3,4,5,6,7,8,10,20,30	PLT1.5I-M	3	0,00,1,2,3,4,5,6,7,8,10,20,30,69,100,109,120,300
PLT2I-C	3	0,14,30,76	PLT2I-M	3	0,00,1,2,3,4,5,6,7,8,10,14,20,30,53,54,55,59,69,76,300
PLT2.5I-C	3	0	PLT2.5I-M	3	0,20
PLT3I-C	3	0,14	PLT3I-M	3	0,2,3,4,5,6,8,10,14,20,30
PLT4I-C	3	0,14	PLT4I-M	3	0,2,5,6,14,20,30
PLT1S-C	3	0	PLT1S-M	3	0,30,38,300
PLT1.5S-C	3	0	PLT1.5S-M	3	0,30
PLT2S-C	3	0,00,1,2,3,4,5,6,7,8,10,20,30,76,102	PLT2S-M	3	0,00,1,2,3,4,5,6,7,8,10,20,30,38,39,53,54,55,59,69,76,100,109,120,300,702
PLT2.5S-C	3	0	PLT2.5S-M	3	0,30
PLT3S-C	3	0,00,2,30,76,702	PLT3S-M	3	0,00,1,2,3,4,5,6,7,8,10,20,30,53,54,55,59,76,100,109,702
PLT4S-C	3	0,00,2,3,4,5,6,8,20,30,76	PLT4S-M	3	0,00,1,2,3,4,5,6,7,8,10,14,20,30,69,76,100,109,120,300
PLT4.5S-C	3	0	PLT4.5S-M	3	0
PLT5S-C	3	0	PLT5S-M	3	0,2,3,4,5,6,8,30
PLT6LH-L	3	0	PLT6LH-C	3	0
PLT7LH-L	3	0	PLT7LH-C	3	0,30
PLT8LH-L	3	0	PLT8LH-C	3	0,120
PLT8LH-Q		0			
PLT9LH-L	3	0	PLT9LH-C	3	0,30
PLT10LH-L	3		PLT10LH-C	3	
PLT2H-L	3	0	PLT2H-TL	3	0,2,4,6,30,100,109,300
PLT2.5H-L	3	0	PLT2.5H-TL	3	0
PLT3H-L	3	0,76	PLT3H-TL	3	0,30,76,100,109
PLT4H-L	3	0,00,76	PLT4H-TL	3	0,00,2,3,4,5,6,10,20,30,69,76,100,109,120,300
PLT4H-C	3	0			
PLT5H-L	3	0	PLT5H-C	3	0,30
PLT6H-L	3	0	PLT6H-C	3	0,30
PLT8H-Q		0	PLT8H-C	3	0,00,30
PLT8H-L	3	0			
PLT13H-Q	3	0	PLT13H-C	3	0,3
PLT2EH-Q		0	PLT2EH-C	3	0
			PLT3EH-NB-C		0
PLT5EH-Q	3	0	PLT5EH-C	3	0
			PLT5EH-NB-C		0
PLT6EH-Q	3	0	PLT6EH-C	3	0
			PLT6EH-NB-C		0
PLT8EH-Q		0	PLT8EH-C	3	0

DOME-TOP™ Barb Ty Cable Ties

Part Number System (Example of BT1M-C)

BT	1	M	C
Part Description	Size	Cross Section	Package Size
BT = Barb Ty	Approx.	M = Miniature	Q = 25
BC = Barb Ty Clamp	Maximum	I = Intermediate	L = 50
BF = Barb Ty Flag	Bundle	S = Standard	C = 100
BM = Barb Ty Marker	Dia. (In)	LH = Light-Heavy	TL = 250
DT = DURA-TY™		EH = Extra-Heavy	D = 500
			M = 1000
			LR = 50' Reel
			0 = DT Kit
			Colour
			See chart
			below for
			colours and
			materials
			available

Material / Colour Chart

Material - Colour	PANDUIT™ Suffix*	Mil Spec Suffix**	Material - Colour	PANDUIT™ Suffix*	Mil Spec Suffix**
Nylon 6.6 - Natural (See Note)	.3	.9	Nylon 6.6 - Blue	.6	.6
Weather Resistant Nylon 6.6 - Black	.0	.N/A	Nylon 6.6 - Purple	.7	.7
Nylon 6.6 - Brown	.1	.1	Nylon 6.6 - Grey	.8	.8
Nylon 6.6 - Red	.2	.2	Nylon 6.6 - White	.10	.N/A
Nylon 6.6 - Orange	.3	.3	Nylon 6.6 - Telephone Grey	.14	.N/A
Nylon 6.6 - Yellow	.4	.4	Nylon 6.6 - Black	.20	.N/A
Nylon 6.6 - Green	.5	.5	Heat Stabilized Nylon 6.6 - Black	.30	.N/A
N/A = Not applicable to military specified parts			Heat Stabilized Nylon 6.6 - Natural	.39	.N/A

* Note: 3 denotes PANDUIT standard Natural Nylon 6.6 (no suffix required in part number)

**Note: Mil. Spec. colour suffix per SAE AS33671 and AS33681(formerly MS3367 and MS3368)

Standard Packaging			Bulk Packaging		
Part Number	Natural Nylon 6.6	Colour / Material Suffix	Part Number	Natural Nylon 6.6	Colour / Material Suffix
			BC1M-S4-M	3	0
			BC2M-S4-M	3	0
			BC1.5I-S8-M	3	0
BC2S-S10-C	3	0	BC2S-S10-D	3	0
			BC3S-S10-D	3	0
BC4S-S10-C	3	0	BC4S-S10-D	3	0,30
BC4LH-S25-L	3	0	BC4LH-S25-TL	3	0
BF1M-C	3		BF1M-M	3	0
BF2M-C	3		BF2M-M	3	0
BM1M-C	3		BM1M-M	3	0
BM2M-C	3		BM2M-M	3	0
BM2S-C	3		BM2S-D	3	0
BM4S-C	3		BM4S-D	3	0
BT1M-C	3	0,30	BT1M-M	3	0,1,2,3,4,5,6,7,8,10,30,39
BT1.5M-C	3	0	BT1.5M-M	3	0,30
BT2M-C	3	0	BT2M-M	3	0,2,3,4,5,6,8,30
BT4M-C	3	0	BT4M-M	3	0
BT1.5I-C	3	0	BT1.5I-M	3	0,1,2,3,4,5,6,7,8,10,30,39
BT2I-C	3	0	BT2I-M	3	0,30
BT3I-C	3	0	BT3I-M	3	0,14,30
BT4I-C	3	0	BT4I-M	3	0,14
BT2S-C	3	0	BT2S-M	3	0,1,2,3,4,5,6,7,8,10,20,30,39
BT3S-C	3	0,2	BT3S-M	3	0,30,39
BT4S-C	3	0	BT4S-M	3	0,2,3,4,5,6,7,8,10,30,39
BT2LH-L	3	0	BT2LH-TL	3	0
BT3LH-L	3	0	BT3LH-TL	3	0
BT4LH-L	3	0	BT4LH-TL	3	0,30,39
BT5LH-L	3	0	BT5LH-C	3	0
BT6LH-L	3	0	BT6LH-C	3	0
BT7LH-L	3	0	BT7LH-C	3	0
BT8LH-L	3	0	BT8LH-C	3	0
BT9LH-L	3	0	BT9LH-C	3	0
			BW1.5I-D	3	
			BW2S-D	3	0
			B2M2S-D	3	0
			B3M2S-TL	3	0
			B4M2S-TL	3	0
^DTHEH-Q	0				
^DTKEH-0	0				
^DTREH-LR	0				
^DT4EH-L	0				
^DT8EH-Q	0				

^ DURA-TY™ Weather Resistant Acetal strap body and head

Parallel Entry Cable Ties

Part Number System (Example of ILT1M-M)

ILT	1	M	M	Colour
Part Description CBR = <i>CONTOUR-TY™</i> ILT = <i>BELT-TY™</i> In-Line Tie	Size Approx. Maximum Bundle Dia. (In)	Cross Section M = Miniature I = Intermediate S = Standard HS = Heavy-Standard LH = Light-Heavy	Package Size C = 100 TL = 250 D = 500 M = 1000	See chart below for colours and materials available

Material / Colour Chart		
Material - Colour	PANDUIT™ Suffix*	Mil Spec Suffix**
Nylon 6.6 - Natural (See Note)	.3	.9
Weather Resistant Nylon 6.6 - Black	.0	.N/A

* Note: 3 denotes PANDUIT standard Natural Nylon 6.6 (no suffix required in part number)

**Note: Mil. Spec. colour suffix per SAE AS33671 and AS33681(formerly MS3367 and MS3368)

Standard Packaging			Bulk Packaging		
Part Number	Natural Nylon 6.6	Colour / Material Suffix	Part Number	Natural Nylon 6.6	Colour / Material Suffix
			CBR1M-M	3	0
			CBR1.5M-M	3	0
			CBR2M-M	3	0
			CBR1.5I-M	3	0
			CBR3I-M	3	0
			CBR4I-M	3	0
			CBR2S-M	3	0
			CBR3S-M	3	0
			CBR4S-M	3	0
			CBR2HS-D	3	0
			CBR4LH-TL	3	0
			CBR6LH-C	3	0
			ILT1M-M	3	0
			ILT1.5I-M	3	0
ILT2S-C	3	0	ILT2S-M	3	0
ILT3S-C	3	0	ILT3S-M	3	0
ILT4S-C	3	0	ILT4S-M	3	0
			ILT4LH-TL	3	0
			ILT6LH-C	3	0

Hook & Loop Cable Ties

Part Number System (Example of HLC3S-X0)

HLC	3	S	X	0
<u>Part Description</u>	<u>Size</u>	<u>Cross Section</u>	<u>Package Size</u>	<u>Colour</u>
HL = Hook & Loop	Approx.	I = Intermediate	X = 3048mm	See chart
HLC = H & L Cinch Tie	Maximum	S = Standard	15R = 4572mm Roll	below for
HLT = H & L Tie	Bundle		20R = 6096mm Roll	colours and
HLTP = H & L Tie Plenum	Dia. (In)		35RX = 10668mm Roll	materials
HLS = H & L Strip			75R = 22860mm Roll	available
HLSP = H & L Strip Plenum				
HLM = H & L Roll Miniature				
GCTC = Grommet Cinch Tie - Centre Mount				
GCTE = Grommet Cinch Tie - End Mount				
TTS = <i>TAK-TAPE™</i> Standard				

Material / Colour Chart			
Colour	Suffix	Colour	Suffix
Black .....	.0	Blue .....	.6
Red .....	.2	Grey .....	.8
Orange .....	.3	White .....	.10
Yellow .....	.4	Maroon .....	.12
Green .....	.5		

Part Number Availability List

Standard Packaging	
Part Number	Colour / Material Suffix
HLC3S-X	0
HLC5S-X	0
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
HLT2I-X	0,2,3,4,5,6,8,10
HLT3I-X	0,2,3,4,5,6,8,10
HLSP1.5S-X	0,12
HLSP3S-X	0,12
HLSP5S-X	0,12
HLTP2I-X	0,12
HLTP3I-X	0,12
TTS-20R	0
TTS-35R	0

HLSP and HLTP are unique Hook & Loop style ties that are UL Listed for use in air handling spaces, per NEC, Section 300-22 (c) and (d) and are UL94V-2 flame rated. Available in Black (-X0) and Maroon (-X12)

NEW! **TAK-TY™ Hook & Loop Cable Tie Mounts**

- For use with *TAK-TY™* Hook & Loop Cable Ties (see page 332)
- For indoor use only
- Dimensions are 27.9mm x 27.9mm x 8.6mm
- Unique cradle design provides maximum stability for cable bundle



Part Number	Material	Colour	Mounting Method	Max. Static Load g	Std. Pkg. Qty.	Std. Ctn. Qty.
Adhesive Backed						
ABMT-A-C	Nylon 6.6	Natural	Rubber Adhesive	174	100	1000
ABMT-A-C20	Nylon 6.6	Black		174	100	1000
Screw Mount						
ABMT-S6-C	Nylon 6.6	Natural	#6 (M3) Screw	—	100	1000
ABMT-S6-C20	Nylon 6.6	Black	#6 (M3) Screw	—	100	1000
ABMT-S6-C60*	Flame Retardant Nylon 6.6	Black	#6 (M3) Screw	—	100	1000
ABMT-S6-C69*	Flame Retardant Nylon 6.6	Natural	#6 (M3) Screw	—	100	1000

* Flame retardant products are manufactured from a material that is rated UL94V-0.

us 4-Way Adhesive Backed Mounts

- Allows cable tie entry from all four sides
- Available in multiple sizes and colours to match application requirements
- Does not require secondary fastener
- Produced 2-up, 4-up, or with tear tabs for fast and easy liner removal to speed installation



Part Number	Used With Cable Ties‡	Length mm	Width mm	Material	Colour	Max. Static Load g	Std. Pkg. Qty.	Std. Ctn. Qty.
Rubber Adhesive – For indoor use only								
ABM1M-A-C	M	12.7	12.7	Nylon 6.6	White	59	100	500
ABMM-A-C	M, I	19.1	19.1	ABS	White	136	100	500
ABM2S-A-C	M, I, S	25.4	25.4	ABS	White	227	100	500
ABM2S-A-C14	M, I, S	25.4	25.4	ABS	Grey	227	100	500
ABM2S-A-C15	M, I, S	25.4	25.4	ABS	Ivory	227	100	500
ABM100-A-C	M, I, S	25.4	25.4	Nylon 6.6	White	227	100	1000
ABM100-A-C15	M, I, S	25.4	25.4	Nylon 6.6	Ivory	227	100	1000
ABM3H-A-L	M, I, S, HS, LH, H, & HLM	38.1	38.1	Nylon 6.6	White	508	50	500
ABM4H-A-L	M, I, S, HS, LH, H, & HLM	50.8	50.8	Nylon 6.6	White	907	50	500
Acrylic Adhesive – For indoor/outdoor and high temperature applications								
ABM100-AT-C0	M, I, S	25.4	25.4	Weather Resistant Nylon 6.6	Black	227	100	1000

‡Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy-Standard, LH = Light-Heavy, H = Heavy, HLM = Miniature *TAK-TY* Hook & Loop Ties.

c **PANDUIT**™ US Tie Mounts

- Manufactured from Natural Nylon 6.6
- For indoor use only
- Unique cradle design provides maximum stability for cable bundle
- Installed with screw or rivet



Part Number	Used With Cable Ties‡	Length mm	Width mm	Height mm	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TM1S4-C	M	13.0	8.0	5.8	#4 (M2.5) Screw	100	500
TM1S6-C	M	13.0	8.0	5.8	#6 (M3) Screw	100	500
TM2S6-C	M, I, S	16.1	10.8	7.0	#6 (M3) Screw	100	500
TM2S8-C	M, I, S	16.1	10.8	7.0	#8 (M4) Screw	100	500
TM3S8-C	M, I, S, LH	22.2	15.8	9.5	#8 (M4) Screw	100	500
TM3S10-C	M, I, S, LH	22.2	15.8	9.5	#10 (M5) Screw	100	500
TM3S25-C	M, I, S, LH	22.2	15.8	9.5	1/4 (M6) Screw	100	500

‡Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, HS = Heavy Standard, LH = Light-Heavy.

c **PANDUIT**™ US Extra-Heavy Tie Mounts

- Manufactured from weather resistant black material
- For use with *PANDUIT*™ Extra-Heavy Cross Section Ties (see page 325) and HLM/HLT style *TAK-TY*™ Hook & Loop Cable Ties (see page 322)
- For indoor/outdoor use
- Dimensions are 42.0mm x 19.0mm x 15.0mm
- Unique cradle design provides maximum stability for cable bundle



Part Number	Material	Mounting Method	Std. Pkg. Qty.	Std. Ctn. Qty.
TMEH-S8-Q0	Weather Resistant Nylon 6.6	#8 (M4) Screw	25	250
TMEH-S10-Q0	Weather Resistant Nylon 6.6	#10 (M5) Screw	25	250
TMEH-S25-Q0	Weather Resistant Nylon 6.6	1/4 (M6) Screw	25	250
TMEH-S10-C100	Weather Resistant Polypropylene	#10 (M5) Screw	100	500

c **PANDUIT**™ US Winged Push Mount

- Manufactured from Natural Nylon 6.6
- For indoor use only
- Mounting Method: Push Barb
- Use in pre-drilled 6.4mm holes with a maximum panel thickness of 2.7mm



Part Number	Used With Cable Ties‡	Length mm	Width mm	Height mm	Std. Pkg. Qty.	Std. Ctn. Qty.
PWMS-H25-C	M, I, S	19.1	9.4	15.5	100	1000

‡Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard.

NEW!  **J-MOD™ Cable Support System**

- 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
- Brackets allow for attachment to ceilings, beams, threaded rods, and drop wires to meet requirements of a variety of applications
- Manufactured from materials that meet UL 2043 and are suitable for use in air handling spaces
- Complete horizontal and vertical bend radius control
- Cables do not come in contact with metal



JMJB2W-X20



JMJB2-X20



JMJB-X



JMJB25-1-X



JMJB25-3-X

Part Number	Part Description	Material*	Max. Static Load	Std. Pkg. Qty.	Std. Ctn. Qty.
			Kg.		
J Hook with maximum 50.8mm bundle capacity					
JMJB2W-X20	J Hook for wall mount applications only. Two 1/4" (M6) mounting holes for user supplied screws.	Nylon	13.61	10	50
JMJB2-X20	J Hook with snap lock attachments for use with all brackets listed below.	Nylon	13.61	10	50

Chaining Bracket

JMJB-X	Chaining bracket to extend <i>J-Mod</i> capacity one level. Capacity: 3 levels maximum. For use with all single-level mounting brackets listed below.	Galvanized Steel	54.45	10	50
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Ceiling Mount Brackets

JMJB25-1-X	Single-level ceiling mount bracket with one 6.35mm (M6) mounting hole.	Galvanized Steel	81.65	10	50
JMJB25-3-X**	Three-level ceiling mount bracket with one 6.35mm (M6) mounting hole. Maximum capacity of 6 J Hooks.	Galvanized Steel	81.65	10	50

** Not for use with chaining brackets.

* Suitable for use in air handling spaces per UL 2043.

NEW!



J-MOD™ Cable Support System (continued)



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	Std. Pkg. Qty.	Std. Ctn. Qty.
			Kg.		

Drop Wire Brackets

JMDWB-1-X	Single-level drop wire bracket. Attaches to #12 wire or 6.35mm plain rod. Maximum capacity of 1 J Hook per level.	Galvanized Steel	9.07	10	50
JMDWB-3-X**	Three-level drop wire bracket. Attaches to #12 wire or 6.35mm plain rod. Maximum capacity of 1 J Hook for each of 3 levels.	Galvanized Steel	18.14	10	50

Threaded Rod Brackets

JMTRB38-1-X	Single-level threaded rod bracket. Accepts 6.35mm – 9.5mm threaded rod.	Galvanized Steel	81.65	10	50
JMTRB38-3-X**	Three-level threaded rod bracket. Accepts 6.35mm – 9.5mm threaded rod. Maximum capacity of 6 J Hooks.	Galvanized Steel	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 22.2mm thick.	Galvanized Steel	81.65	10	50
JMSBCB87-3-X**	Three-level screw-on beam clamp bracket for use with flanges up to 22.2mm thick. Maximum capacity of 6 J Hooks.	Galvanized Steel	81.65	10	50

** Not for use with chaining brackets.
 * Suitable for use in air handling spaces per UL 2043.

Adhesive Backed Cord Clips

- Manufactured from Natural Nylon 6.6
- For indoor use only
- Mounting Method: Rubber Adhesive
- Cables are easily snapped into or out of the clips



Part Number	Max. Bundle Dia.	Length	Width	Max. Static Load	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm	mm	mm	g		
ACC19-A-C	4.8	16.0	19.3	91	100	500
ACC38-A-C	9.6	25.4	25.4	227	100	500
ACC62-A-C	15.7	31.7	28.6	318	100	500

CLINCHER™ Adjustable Releasable Clamp

- Manufactured from TELCO Grey Polypropylene
- For indoor use only
- Dimensions are 25.4mm x 25.4mm
- Bundle Range: 4.8mm – 17.5mm diameter
- Adjustable clamp designed to contain various cable bundle diameters



Part Number	Mounting Method	Max. Static Load	Std. Pkg. Qty.	Std. Ctn. Qty.
		g		
ARC.68-A-Q14	Rubber Adhesive	227	25	250
ARC.68-S6-Q14	#6 (M3) Screw	—	25	250

cR^{us} Bevel Entry Clips

- Manufactured from Natural Nylon 6.6
- For indoor use only
- Mounting Method: Rubber Adhesive
- Three sizes to hold cable or cable bundles
- Beveled entry makes it easy to insert cable bundle



Part Number	Max. Bundle Dia.	Length	Width	Max. Static Load	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm	mm	mm	g		
BEC38-A-L	9.6	37.1	31.5	411	50	500
BEC62-A-L	15.7	37.1	31.5	411	50	500
BEC75-A-L	19.0	37.1	37.8	493	50	500

NEW! Cable Bundle Strap

- For indoor use only
- Mounting Method: M6 Screw
- Dimensions are 122.6mm x 25.4mm x 64.5mm
- Bundle Range: Up to 38.7cm²
- Rounded edges prevent damage to cable jackets



Part Number	Material	Colour	Std. Pkg. Qty.	Std. Ctn. Qty.
WBS6-Q	ABS	Natural	25	125
WBS6-Q60 *	Flame Retardant Nylon 6.6	Black	25	125

* Flame retardant products are manufactured from a material that is rated UL94V-0.

c us Latching Clips

- Manufactured from Nylon 6.6
- For indoor use only
- Secures cords and cables
- Adhesive products have a large mounting base for high bonding strength
- Available in 6 sizes with releasable latch



Part Number	Max. Bundle Dia.	Length	Width	Colour	Max. Static Load	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm				g		
Adhesive Backed*							
LWC19-A-C	4.8	21.6	15.5	Natural	113	100	1000
LWC19-A-C14	4.8	21.6	15.5	Grey	113	100	1000
LWC25-A-C	6.4	22.2	25.4	Natural	204	100	1000
LWC25-A-C14	6.4	22.2	25.4	Grey	204	100	1000
LWC38-A-C	9.6	25.4	25.4	Natural	227	100	1000
LWC38-A-C14	9.6	25.4	25.4	Grey	227	100	1000
LWC50-A-L	12.7	32.0	25.4	Natural	272	50	500
LWC50-A-L14	12.7	32.0	25.4	Grey	272	50	500
LWC75-A-L	19.1	37.6	31.5	Natural	417	50	500
LWC75-A-L14	19.1	37.6	31.5	Grey	417	50	500
LWC100-A-L	25.4	56.1	50.0	Natural	1020	50	500
LWC100-A-L14	25.4	56.1	50.0	Grey	1020	50	500
Push Mount**							
LWC19-H25-C	4.8	21.6	12.8	Natural	—	100	1000
LWC19-H25-C14	4.8	21.6	12.8	Grey	—	100	1000
LWC25-H25-C	6.4	21.8	14.7	Natural	—	100	1000
LWC25-H25-C14	6.4	21.8	14.7	Grey	—	100	1000
LWC38-H25-C	9.6	23.9	14.7	Natural	—	100	1000
LWC38-H25-C14	9.6	23.9	14.7	Grey	—	100	1000
LWC50-H25-L	12.7	31.8	19.3	Natural	—	50	500
LWC50-H25-L14	12.7	31.8	19.3	Grey	—	50	500
LWC75-H25-L	19.1	36.8	22.1	Natural	—	50	500
LWC75-H25-L14	19.1	36.8	22.1	Grey	—	50	500
LWC100-H25-L	25.4	48.0	25.4	Natural	—	50	500
LWC100-H25-L14	25.4	48.0	25.4	Grey	—	50	500

* Mounting Method: Rubber Adhesive.

** Push mount products require 6.4mm diameter hole in panels up to 2.7mm thick.

NEW! Cable Holder

- Manufactured from TELCO Grey Nylon 6.6
- For indoor use only
- Dimensions are 63.5mm x 26.0mm x 15.9mm
- Bundle Range: Up to 52.3mm x 9.9mm
- Low profile design holds cords and cables
- Convenient releasable latch allows easy addition and removal of cables
- Adhesive product has a large mounting base for high bonding strength



Part Number	Mounting Method	Max. Static Load	Std. Pkg. Qty.	Std. Ctn. Qty.
		g		
CH105-A-C14	Adhesive Backed	581	100	1000
CH105-S6-C14	#6 (M3) Screw	—	100	1000

CAUS PAN-STEEL™ Self-Locking Stainless Steel Cable Ties

- Strong, durable method of bundling and fastening
- Can be used in virtually all indoor, outdoor and underground (including direct burial) applications
- Well suited for network bundling of data and power cables
- Fully rounded edges and exclusive lead-in design
- Provides ultimate support for network cables



MLT general purpose tie available in three cross sections

Product Specifications

- Material: Type 304 or 316 stainless steel
- Temperature range: -112°F (-80°C) to 1000°F (538°C)
- Water absorption: none
- Flammability: non-flammable
- Ultraviolet resistance: excellent
- Chemical resistance: excellent
- Radiation resistance: 2 x 10⁸ rads
- Loop tensile strength range: 890-2000N (see chart for sizes)
- Fully rounded edges and smooth surfaces
- Estimated outdoor service life of 40 years

Part Number	Max. Bundle Dia.	Length	Min. Loop Tensile Str.	Min. Bundle Diameter	Width	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm						

AISI 304 Stainless Steel – For General Purpose

Standard Cross Section

MLT1S-CP	25	127	890	12.7	4.6	100	500
MLT2S-CP	51	201				100	500
MLT2.7S-CP	69	259				100	500
MLT4S-CP	102	362				100	500
MLT6S-CP	152	521				100	500
MLT8S-CP	203	679				100	500

NEW! Light-Heavy Cross Section *NEW!*

MLT2LH-LP	51	201	1112	12.7	6.4	50	250
MLT4LH-LP	102	362				50	250
MLT6LH-LP	152	521				50	250
MLT8LH-LP	203	679				50	250

Heavy Cross Section

MLT2H-LP	51	201	2000	12.7	7.9	50	250
MLT4H-LP	102	362				50	250
MLT6H-LP	152	521				50	250
MLT8H-LP	203	679				50	250

AISI 316 Stainless Steel– For Superior Corrosion Resistance

Standard Cross Section

MLT1S-CP316	25	127	890	12.7	4.6	100	500
MLT2S-CP316	51	201				100	500
MLT4S-CP316	102	362				100	500
MLT6S-CP316	152	521				100	500
MLT8S-CP316	203	679				100	500

NEW! Light-Heavy Cross Section *NEW!*

MLT2LH-LP316	51	201	1112	12.7	6.4	50	250
MLT4LH-LP316	102	362		50		250	
MLT6LH-LP316	152	521		50		250	
MLT8LH-LP316	203	679		50		250	

Heavy Cross Section

MLT2H-LP316	51	201	2000	12.7	7.9	50	250
MLT4H-LP316	102	362				50	250
MLT6H-LP316	152	521				50	250
MLT8H-LP316	203	679				50	250

PAN-STEEL™ WAVE-TY™ Self-Locking Stainless Steel Cable Ties

- Patented wave-form spring maintains greater installed tension on non-resilient objects
- Loop tensile strength of 890-2000 N provides superior strength for increased performance and reliability on most bundling applications



GS4MT Installation tool



WAVE-TY™ Stainless Steel Tie for superior grip

Part Number	Max. Bundle Dia.	Length	Min. Loop Tensile Str.	Min. Bundle Diameter	Width	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm	mm	N	mm	mm		

AISI 304 Stainless Steel – For Superior Grip on Rigid Bundles

NEW! Standard Cross Section *NEW!*

MLT2.7WS-LP	69	259	890	51	4.6	50	250
MLT4WS-LP	102	362				50	250
MLT6WS-LP	152	521				50	250
MLT8WS-LP	203	679				50	250

NEW! Light-Heavy Cross Section *NEW!*

MLT2.7WLH-LP	69	259	1112	51	6.4	50	250
MLT4WLH-LP	102	362				50	250
MLT6WLH-LP	152	521				50	250
MLT8WLH-LP	203	679				50	250

Heavy Cross Section

MLT2.7WH-LP	69	259	2000	51	7.9	50	250
MLT4WH-LP	102	362				50	250
MLT6WH-LP	152	521				50	250
MLT8WH-LP	203	679				50	250

AISI 316 Stainless Steel - For Superior Grip on Rigid Bundles

NEW! Standard Cross Section *NEW!*

MLT2.7WS-LP316	69	259	890	51	4.6	50	250
MLT4WS-LP316	102	362				50	250
MLT6WS-LP316	152	521				50	250
MLT8WS-LP316	203	679				50	250

NEW! Light-Heavy Cross Section *NEW!*

MLT2.7WLH-LP316	69	259	1112	51	6.4	50	250
MLT4WLH-LP316	102	362				50	250
MLT6WLH-LP316	152	521				50	250
MLT8WLH-LP316	203	679				50	250

Heavy Cross Section

MLT2.7WH-LP316	69	259	2000	51	7.9	50	250
MLT4WH-LP316	102	362				50	250
MLT6WH-LP316	152	521				50	250
MLT8WH-LP316	203	679				50	250

Patented Nylon 11 Selectively Coated Ties

- For communication and electrical cables
- Strength of steel, the protection of nylon; the nylon coating provides protection for the cables



Part Number	Max. Bundle Dia.	Length	Min. Loop Tensile Str.	Min. Bundle Diameter	Width	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm	mm	N	mm	mm		
MLTC2H-LP316	51	201	1112	12.7	7.9	50	250
MLTC4H-LP316	102	362				50	250
MLTC6H-LP316	152	521				50	250
MLTC8H-LP316	203	679				50	250

Optional Installation Tooling

- Complete line of manual and pneumatic installation tools speed installation
- Side entry of cable ties into the tools means quick and easy installation
- Automatic tension and cut-off capabilities available on select models
- High reliability, low maintenance, long life



Tool	MLT Cross Section	MLT Usage per Year	Operation
GS4MT	Standard, Light Heavy, Heavy	Under 50,000	Hand; tool controlled tension and cut-off
PPTMT	Standard, Light Heavy, Heavy	Over 50,000	Pneumatic; tool controlled tension and cut-off
ST2MT	Standard, Light Heavy, Heavy	Under 10,000	Hand; manual controlled tension twist cut-off
HTMT	Standard, Light Heavy, Heavy	Under 10,000	Hand; manual controlled tension no cut-off

NEW! PAN-WRAP™ Split Harness Wrap

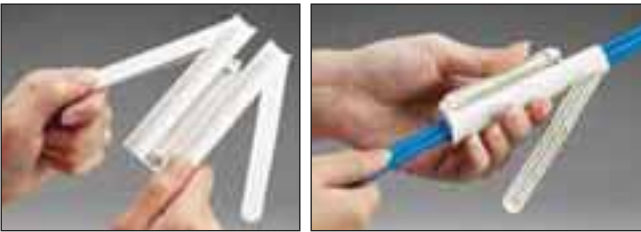
- Patent pending slot pattern provides improved flexibility and abrasion protection in any application
- Large overlap accommodates a wide range of bundle diameters
- Unique wall design provides for easy cable breakouts
- Innovative design maintains uniform bundle protection in dynamic applications
- Packaged on a reel for easy handling and dispensing of product



Part Number	Nominal I.D.	Min. Bundle Dia.‡	Max. Bundle Dia.	Material	Colour	Length Per Reel	Std. Pkg. Qty.*
	mm	mm	mm			M	
PW50F-T	12.7	10.9	14.0	Polyethylene	Natural	61.1	1
PW75F-C	19.1	14.0	20.6	Polyethylene	Natural	30.5	1
PW50F-T20	12.7	10.9	14.0	Polyethylene	Black	61.1	1
PW75F-C20	19.1	14.0	20.6	Polyethylene	Black	30.5	1

‡ Diameter can be further reduced with the use of cable ties.
* Order number of reels required.

NEW! PAN-WRAP™ Installation Tool



- Patent pending installation tool with 180° opening allows easy loading of maximum bundle diameters to speed installation, providing the lowest installed cost

Part Number	Colour	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

- Bundle Range: 9.5mm – 101.6mm
- Allows breakouts of single/multiple cables
- Harness multiple cables into a single manageable bundle
- Provides protection for cables
- Colour code cable bundles
- Reusable
- Installation tool supplied in each package
- Packaged on a 30.5M reel for easy handling and dispensing of product



Part Number	Material	Colour	Std. Pkg. Qty.*
T50F-C	Polyethylene	Natural	1
T50F-C0	Weather Resistant Polyethylene	Black	1
T50F-C1	Polyethylene	Brown	1
T50F-C2	Polyethylene	Red	1
T50F-C3	Polyethylene	Orange	1
T50F-C4	Polyethylene	Yellow	1
T50F-C5	Polyethylene	Green	1
T50F-C6	Polyethylene	Blue	1
T50F-C7	Polyethylene	Purple	1
T50F-C8	Polyethylene	Grey	1
T50F-C10	Polyethylene	White	1
T50F-C16	Polyethylene	Pink	1
T50FR-C **	Flame Retardant Polyethylene	Natural	1
T50FR-C20 **	Flame Retardant Polyethylene	Black	1

* Order number of reels required.
** Flame retardant products are manufactured from a material that is rated UL94V-0.
Contact Customer Service for additional sizes and materials available.

Corrugated Loom Tubing

- Manufactured from Polyethylene
- For indoor use only
- Protects and reduces the risk of damage to cabling
- Packaged on a reel for easy handling and dispensing of product



Part Number	Colour	Inside Diameter	Outside Diameter	Length Per Reel	Std. Pkg. Qty*
		mm	mm	M	

Corrugated Loom Tubing — Slit Wall

CLT25F-C3	Orange	6.7	9.9	30.5	1
CLT38F-C3	Orange	10.5	14.2	30.5	1
CLT50F-C3	Orange	12.8	17.0	30.5	1
CLT75F-C3	Orange	19.3	23.7	30.5	1
CLT100F-C3	Orange	23.2	27.7	30.5	1
CLT125F-L3	Orange	32.8	38.1	15.2	1
CLT150F-X3	Orange	39.1	47.2	3.0	1
CLT188F-X3	Orange	47.8	55.1	3.0	1
CLT25F-C20	Black	6.7	9.9	30.5	1
CLT38F-C20	Black	10.5	14.2	30.5	1
CLT50F-C20	Black	12.8	17.0	30.5	1
CLT75F-C20	Black	19.3	23.8	30.5	1
CLT100F-C20	Black	23.2	27.7	30.5	1
CLT125F-L20	Black	32.8	38.1	15.2	1
CLT150F-T20	Black	39.1	47.2	61.0	1
CLT150F-X20	Black	39.1	47.2	3.0	1
CLT150F-X4	Yellow	39.1	47.2	3.0	1
CLT188F-X4	Yellow	47.8	55.1	3.0	1

Corrugated Loom Tubing — Solid Wall

CLTS25F-C3	Orange	6.7	9.9	30.5	1
CLTS38F-C3	Orange	10.5	14.1	30.5	1
CLTS50F-C3	Orange	12.8	17.0	30.5	1
CLTS75F-C3	Orange	19.3	23.7	30.5	1
CLTS100F-C3	Orange	23.2	27.7	30.5	1
CLTS125F-L3	Orange	32.8	38.1	15.2	1
CLTS25F-C	Black	6.7	9.9	30.5	1
CLTS38F-C	Black	10.5	14.1	30.5	1
CLTS50F-C	Black	12.8	17.0	30.5	1
CLTS75F-C	Black	19.3	23.7	30.5	1
CLTS100F-C	Black	23.2	27.7	30.5	1
CLTS125F-L	Black	32.8	38.1	15.2	1

* Order number of reels required.

Contact Customer Service for additional sizes, materials, colours and bulk packaging.

Grommet Edging

- Use slotted wall product on irregularly shaped and round panel holes
- Use solid wall product on straight panels
- Adhesive ensures product stays in place
- Provided in 0.8mm thick material making it highly flexible
- General purpose material for use up to 50°C
- Packaged on a 30.5M reel for easy handling and dispensing of product



Part Number	Width	Height	Material	Colour	Panel Thickness	Std. Pkg. Qty.*
	mm	mm			Range	
Adhesive Lined Grommet Edging – Slotted Wall						
GEE62F-A-C	3.3	4.1	Polyethylene	Natural	.9 – 1.6	1
GEE62F-A-C0	3.3	4.1	Weather Resistant Polyethylene	Black	.9 – 1.6	1
GEE99F-A-C	4.3	4.7	Polyethylene	Natural	1.6 – 2.5	1
GEE99F-A-C0	4.3	4.7	Weather Resistant Polyethylene	Black	1.6 – 2.5	1
GEE144F-A-C	5.4	5.6	Polyethylene	Natural	2.5 – 3.7	1
GEE144F-A-C0	5.4	5.6	Weather Resistant Polyethylene	Black	2.5 – 3.7	1
Adhesive Lined Grommet Edging – Solid Wall						
GES62F-A-C	3.3	4.1	Polyethylene	Natural	.9 – 1.6	1
GES62F-A-C0	3.3	4.1	Weather Resistant Polyethylene	Black	.9 – 1.6	1
GES99F-A-C	4.3	4.7	Polyethylene	Natural	1.6 – 2.5	1
GES99F-A-C0	4.3	4.7	Weather Resistant Polyethylene	Black	1.6 – 2.5	1
GES144F-A-C	5.4	5.6	Polyethylene	Natural	2.5 – 3.7	1
GES144F-A-C0	5.4	5.6	Weather Resistant Polyethylene	Black	2.5 – 3.7	1
Flame Retardant Grommet Edging – Slotted Wall**						
GEE36FR-C	2.7	3.0	Polyethylene	Natural	.7 – .9	1
GEE62FR-C	3.3	4.1			.9 – 1.6	1
GEE99FR-C	4.3	3.9			1.6 – 2.5	1
GEE144FR-C	5.4	5.9			2.5 – 3.7	1
Flame Retardant Grommet Edging – Solid Wall**						
GES36FR-C	2.7	3.0	Polyethylene	Natural	.7 – .9	1
GES62FR-C	3.3	4.1			.9 – 1.6	1
GES99FR-C	4.3	3.9			1.6 – 2.5	1
GES144FR-C	5.4	5.9			2.5 – 3.7	1

* Order the number of reels required.

** Flame retardant products are manufactured from a material that is rated UL94V-0.



HSEC Thick Wall End Caps

- Manufactured from Black Cross-Linked Polyolefin
- Adhesive lined inner wall seals and provides excellent protection against moisture
- Shrink ratio of 3:1
- Temperature range of -55°C to 105°C
- Voltage rating of 600V



Part Number	Min. Expanded I.D.	Max. Recovered I.D.	Copper Conductor Size Range		Cap Length	Std. Pkg. Qty.	Std. Ctn. Qty.
	mm	mm	AWG / kcmil	mm2	mm		
HSEC0.5-X	11.9	4.6	#8 - #4 AWG	10 to 25	35.1	10	100
HSEC0.8-X	20.1	7.6	#4 - #3/0 AWG	25 to 95	54.1	10	100
HSEC1.0-X	25.9	11.4	#2 - #4/0 AWG	35 to 95	82.0	10	100
HSEC1.5-5	40.1	17.3	#250 - #500 MCM	120 to 240	98.0	5	50
HSEC2.0-5	57.2	22.1	#600 - #1000 MCM	300 to 500	140.2	5	50
HSEC4.0-2	105.2	45.2	#1500 - #2000 MCM	720 to 1000	175.3	2	10



HSTTV Heat Shrink



- Manufactured from Flame Retardant Black Cross-Linked Polyolefin
- 6"L (152.4mm) pieces
- For dry locations
- Fast shrink time
- Shrink ratio of 2:1
- Temperature range of -67°F to 257°F (-55°C to 125°C)
- Voltage of 600V
- UL VW-1 Recognized, CSA Certified
- Mil Spec AMS-DTL-23053/5 Class 3



Part Number	Nominal Diameter / Size	Min. Expanded I.D.	Max. Recovered I.D.	Std. Pkg. Qty. (pieces)	Std. Ctn. Qty. (packages)
		mm	mm		
HSTTV05-Y	1.2mm	1.3	.5	26	10
HSTTV06-Y	1.6mm	1.5	.8	26	10
HSTTV09-Y	2.4mm	2.3	1.3	24	10
HSTTV12-Y	3.2mm	3.3	1.5	20	10
HSTTV19-Y	4.8mm	4.8	2.3	18	10
HSTTV25-Y	6.4mm	6.4	3.3	14	10
HSTTV38-Y	9.5mm	9.7	4.8	12	10
HSTTV50-Y	12.7mm	12.7	6.4	10	10
HSTTV75-Y	19.0mm	19.1	9.7	8	10
HSTTV100-Y	25.4mm	25.4	12.7	6	10

Maximum UL Temperature Range is 125°C.
 Contact Customer Service for additional sizes and materials available.

LABELLING AND ADMINISTRATION

A world leader in network connectivity identification solutions, *PANDUIT™* designs and manufactures labelling products, software and printers to assist you with TIA/EIA-606-A compliance. For recommended product information and labelling solutions, please refer to the following sections in this catalogue: Fibre Connectors, Enclosures & Patch Cords, Modules, Patch Panels and Copper Patchcords & Punchdown.



The TIA/EIA-606-A standard states:

- Size, colour and contrast of all labels should be selected to ensure that the identifiers are easily read
- Labels should be visible during the installation of and normal maintenance of the infrastructure
- Labels should be resistant to the environmental conditions at the point of installation (such as moisture or heat) and should have a design life equal to or greater than that of the labeled component
- To maximise legibility, all labels shall be printed or generated by a mechanical device

PANDUIT Network Connectivity Identification Solutions include a full line of TIA/EIA-606-A standard compliant labelling products. Properly identifying your network allows moves, adds, changes, trouble shooting and repairs to be accomplished faster and more efficiently. For detailed information on *PANDUIT* Identification Products, please visit www.panduit.com/emea.

PANTHER™ LS8 Hand-Held Thermal Transfer Printer and Accessories

- Compact, rugged design includes reverse feeding and advanced cut-to-length capability in order to minimise label waste
- Includes large backlit display, adjustable cutter and USB interface
- 203 dpi thermal transfer printer creates crisp, clear legends with superior legibility
- Used to print a wide variety of wire and cable labels, component labels and continuous tapes up to 25.4mm wide
- Powered by 6 AA alkaline batteries
- Easy loading *P1™* cassettes with automatic label recognition includes both label materials and ribbon
- Advanced functions include serialisation, barcode printing, vertical and horizontal lines, rotated or vertical text, variety of font sizes/styles and a symbol library containing electrical, data communications and facility identification symbols



LS8



LS8-KIT

Part Number	Part Description	Std. Pkg. Qty.
LS8	Includes LS8 printer, 1 cassette of S100X150VAC self-laminating labels, 6 AA alkaline batteries and quick reference card.	1
LS8-KIT	Includes LS8 printer, 1 cassette of S100X150VAC self-laminating labels, 6 AA alkaline batteries, hard carrying case, LS8-PCKIT, LS8-IB, LS8-WS and quick reference card.	1
LS8-AC E/U	100-240 V AC adapter with E-Europlug or U-UK plug.	1
LS8-PCKIT	Includes USB cable and PC interface software for importing data, system upgrades or printing from a computer.	1
LS8-CASE	Hard carrying case.	1
LS8-CLN	Cleaning cassette.	1
LS8-IB	Protective impact bumper.	1
LS8-WS	Wrist strap.	1

*Cannot be used to charge batteries.

Self-Laminating Label Cassettes

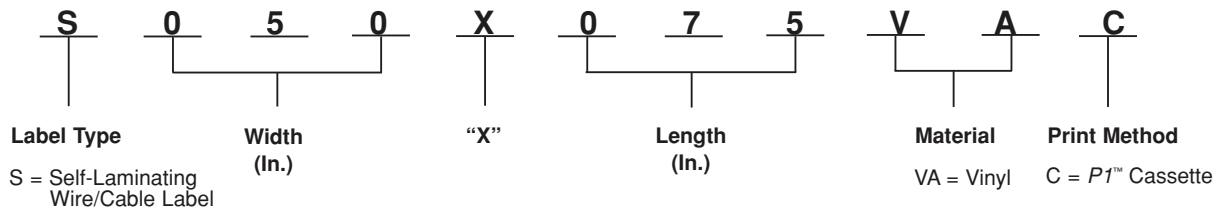


- Labels offer crisp, clear legends with superior legibility
- Self-laminating labels for wire/cable labelling include a coloured print-on area and clear overlamine to protect the legend for clear and durable identification
- Labels are available in a large range of wire/cable sizes

Part Number	Description	Width	Length	Print-On Height	Min. Cable O.D.	Max. Cable O.D.	Std. Pkg. Qty.	Std. Ctn. Qty.
		mm	mm	mm	mm	mm		
S050X075VAC	White print-on, vinyl label for 18 – 14 AWG wires, 450/cassette.	12.70	19.05	6.35	2.02	4.04	1	10
S050X125VAC	White print-on, vinyl label for 12 – 10 AWG wires, 225/cassette.	12.70	31.75	9.65	3.07	7.03	1	10
S050X150VAC	White print-on, vinyl label for Category 5/Category 5e/Category 6 cables, 200/cassette.	12.70	38.10	12.70	4.04	8.09	1	10
S100X075VAC	White print-on, vinyl label for 18 – 14 AWG wires, 350/cassette.	25.40	19.05	6.35	2.02	4.04	1	10
S100X125VAC	White print-on, vinyl label for 12 – 10 AWG wires, 225/cassette.	25.40	31.75	9.65	3.07	7.03	1	10
S100X150VAC	White print-on, vinyl label for Category 5/Category 5e/Category 6 cables, 200/cassette.	25.40	38.10	12.70	4.04	8.09	1	10
S100X225VAC	White print-on, vinyl label for 8 – 4 AWG wires, 125/cassette.	25.40	57.15	19.05	6.06	12.13	1	10
S100X400VAC	White print-on, vinyl label for 2 – 1 AWG wires, 75/cassette.	25.40	101.60	25.40	8.09	24.26	1	10
S100X650VAC	White print-on, vinyl label for 1/0 – 250 MCM wires, 50/cassette.	25.40	165.10	38.10	12.13	40.43	1	10

Order number of cassettes required.

Part Number System for Wire/Cable Labelling



Self-Laminating Labels for Laser/Ink Jet Desktop Printers Supplied on 216mm x 279mm (US letter sheets)

Part Number	Part Description	Width	Length	Print-On Height	Min. Cable Diameter	Max. Cable Diameter	Std. Pkg. Qty.*	Std. Ctn. Qty.
		mm	mm	mm	mm	mm		
S100X125FAJ	White self-laminating polyolefin labels	25.40	31.75	12.70	3.05	5.08	5040	3024
S100X150FAJ	White self-laminating polyolefin labels	25.40	38.10	12.70	3.05	5.08	5040	3024
S100X160FAJ	White self-laminating polyolefin labels	25.40	40.64	20.32	2.79	6.86	5040	3024
S100X225FAJ	White self-laminating polyolefin labels	25.40	57.15	19.05	6.10	14.22	1008	6048
S100X400FAJ	White self-laminating polyolefin labels	25.40	101.60	25.40	7.87	17.78	1008	6048
S200X225FAJ	White self-laminating polyolefin labels	50.80	57.15	19.05	6.10	14.22	1008	6048
S200X400FAJ	White self-laminating polyolefin labels	50.80	101.60	25.40	7.87	17.78	1008	6048

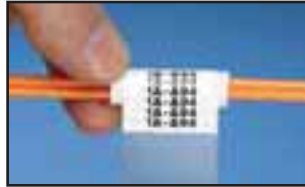
*Order number of labels required in multiples of Std. Pkg. Qty.

LABELCORE™ Fibre Optic Cable Identification System

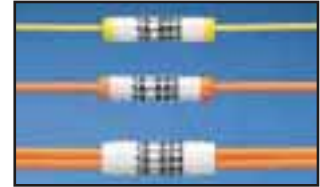
- Provides a larger labelling surface on small fibre cables and allows legends to be clearly seen
- Sleeve is made of flexible PVC material
- Locate sleeve on straight section of cable at least 50.8mm from fibre boot



Apply LABELCORE™ sleeve to cable



Wrap self-laminating label around LABELCORE™ sleeve



LABELCORE™ sleeves labelled and installed

Part Number	Description	Std. Pkg. Qty.	Std. Ctn. Qty.
NWSLC-2Y	Yellow, cable identification sleeve, 2mm simplex cable.	100	1000
NWSLC-3Y	Orange, cable identification sleeve, 3mm simplex cable.	100	1000
NWSLC-7Y	White, cable identification sleeve, 3mm duplex fibre cable.	100	1000

Order number of sleeves required.

Self-Laminating Label Cassettes for Use with LABELCORE™ Fibre Optic Cable Identification System

Part Number	Description	Width	Length	Print-On Height	Min. Cable O.D.	Max. Cable O.D.	Std. Pkg. Qty.	Std. Ctn. Qty.
		mm	mm	mm	mm	mm		
S100X160VAC	White print-on, self-laminating vinyl label 175/cassette. For use with NWSLC-2Y and NWSLC-3Y.	25.40	40.64	20.32	6.35	6.35	1	10
S100X220VAC	White print-on, self-laminating vinyl label 125/cassette. For use with NWSLC-7Y.	25.40	55.88	27.94	12.19	12.19	1	10

Order number of cassettes required.

Non-Laminated Label Cassettes



- Labels offer crisp, clear legends with superior legibility
- Use as a wrap around label or flag style marker for wire/cable labels
- Labels are perforated so they can be used as full-size or half-size markers
- Available in vinyl cloth material for long-term or temporary labelling

Part Number	Description	Width	Length	Min. Cable O.D.	Max. Cable O.D.	Std. Pkg. Qty.	Std. Ctn. Qty.
		mm	mm	mm	mm		
N050X075CBC	White, vinyl cloth label for 18 – 14 AWG wires, 125/cassette cables.	12.70	19.05	6.10	12.95	1	10
N050X150CBC	White, vinyl cloth label for Category 5/Category 5e/Category 6 cables, 75/cassette.	12.70	38.10	12.19	25.91	1	10
N100X125CBC	White, vinyl cloth label for 12 – 10 AWG wires, 75/cassette.	25.40	31.75	10.16	21.59	1	10
N100X175CBC	White, vinyl cloth label for 8 – 4 AWG wires, 50/cassette.	25.40	44.45	14.22	30.23	1	10

Order number of cassettes required.

General Component Label Cassettes



- Labels offer crisp, clear legends with superior legibility
- Multi-purpose labels for identifying flat surfaces such as components, control panels, circuit boards and general labelling
- Available in polyester and vinyl cloth materials

Part Number	Description	Width	Height	Std. Pkg. Qty.	Std. Ctn. Qty.
		mm	mm		
C060X020YJC	White, polyester label, 750/cassette.	15.24	5.08	1	10
C100X025YJC	White, polyester label, 500/cassette.	25.40	6.35	1	10
C100X050CBC	White, vinyl cloth label, 175/cassette.	25.40	12.70	1	10
C100X050YJC	White, polyester label, 500/cassette.	25.40	12.70	1	10
C150X075YJC	White, polyester label, 250/cassette.	38.10	19.05	1	10
C200X050CBC	White, vinyl cloth label, 50/cassette.	50.80	12.70	1	10
C200X050YJC	White, polyester label, 200/cassette.	50.80	12.70	1	10
C200X100YJC	White, polyester label, 200/cassette.	50.80	25.40	1	10

Order number of cassettes required.

ULTIMATE ID™ Network Label Cassette



- Label cassettes designed for use with *ULTIMATE ID™* faceplates, patch panels, marker ties, modular furniture faceplates, surface mount boxes and components
- Labels assist in compliance with TIA/EIA-606-A labelling standard
- Available in non-adhesive polyester material

Part Number	Description	Height	Length	Std. Pkg. Qty.	Std. Ctn. Qty.
		mm	m		
UMLS8BW	White, non-adhesive polyester label cassette.	6.0	7.6	1	10

Order number of cassettes required.

For complete *ULTIMATE ID™* Network Labelling System product information visit www.panduit.com.

Network Component Label Cassettes

- Labels offer crisp, clear legends with superior legibility
- 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 polyolefin and non-adhesive polyester materials



Part Number*	Description	Width	Height	Std. Pkg. Qty.	Std. Ctn. Qty.
		mm	mm		
C061X030FJC	White, polyolefin label, 500/cassette, one port identifier.	15.49	7.62	1	10
C125X030FJC	White, polyolefin label, 200/cassette, two port identifier.	31.75	7.62	1	10
C138X019FJC	White, polyolefin label, 200/cassette, module.	35.05	4.83	1	10
C188X030FJC	White, polyolefin label, 150/cassette, three port identifier.	47.75	7.62	1	10
C195X040Y1C	White, non-adhesive polyester label, 100/cassette, single gang faceplate.	49.53	10.16	1	10
C200X100FJC	White, polyolefin label, 150/cassette, SLCT.	50.80	25.40	1	10
C252X030FJC	White, polyolefin label, 125/cassette, four port identifier.	64.01	7.62	1	10
C261X030FJC	White, polyolefin label, 125/cassette, four port identifier.	66.29	7.62	1	10
C261X035Y1C	White, non-adhesive polyester label, 75/cassette, four port identifier.	66.29	8.89	1	10
C282X030Y1C	White, non-adhesive polyester label, 75/cassette, four port identifier.	71.63	7.62	1	10
C288X040Y1C	White, non-adhesive polyester label, 150/cassette, double gang faceplate.	73.15	10.16	1	10
C315X030FJC	White, polyolefin label, 100/cassette, five port identifier.	80.01	7.62	1	10
C379X030FJC	White, polyolefin label, 75/cassette, six port identifier.	96.27	7.62	1	10
C390X030Y1C	White, non-adhesive polyester label, 50/cassette, six port identifier.	99.06	7.62	1	10
C750X050Y1C	White, non-adhesive polyester label, 30/cassette, 110 block.	190.50	12.70	1	10
C788X050Y1C	White, non-adhesive polyester label, 30/cassette, GP6™ system.	200.15	12.70	1	10

Order number of cassettes required.

*To find the suggested label solutions for a specific network component, refer to the *PAN-NET™* Network Solutions catalogue available online at <http://www.panduit.com/ngc1> and search by network component part number using the find function.

EASY-MARK™ Labelling Software Version 3.0

- EASY-MARK™ Labelling Software Version 3.0 simplifies label creation for the specific needs of your applications
- Intuitive interview process allows automatic generation of compliant labels and signs
- Software selects and formats the optimum label for your specific project
- **WYSIWYG** (What You See Is What You Get) user interface, alpha/numeric serialisation, data import, symbol import
- EASY-MARK™ Labelling Software Version 3.0 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
- EASY-MARK™ Labelling Software Version 3.1 available in French, German, Italian, Spanish and Portugese

System Requirements:

- WINDOWS^ 98, 2000, NT4.x or XP; processor with 64MB hard drive space and 40MB RAM



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PROG-EMCD3	EASY-MARK™ labelling software version 3.0 supplied on CD-ROM.	1	10

^WINDOWS and EXCEL are registered trademarks of Microsoft Corp. in the United States and/or other countries.

CAD-CONNECT™ Labelling Software

- Generates labels quickly and easily directly from an electronic CAD file
- Eliminates steps and time spent manually copying CAD identifiers into labelling software
- Program combines the power of an innovative wizard interview and EASY-MARK™ Labelling Software to capture and organise identifiers from electronic CAD files to automatically create and print labels
- Compatible with AutoCAD* 2000i and Visio^ 2002 or newer versions of CAD
- Exports to alternative formats such as EXCEL (XLS) or Text (CSV) files for future use and documentation

System Requirements:

- WINDOWS^ 98, Me, 2000, NT4.x and XP; minimum 486 processor; minimum 32MB RAM; 64MB hard drive space



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
PROG-CCCD	CAD-CONNECT™ labelling software, including EASY-MARK™ labelling software version 3.0, supplied on CD-ROM.	1	10

*AutoCAD is a registered trademark of Autodesk, Inc.

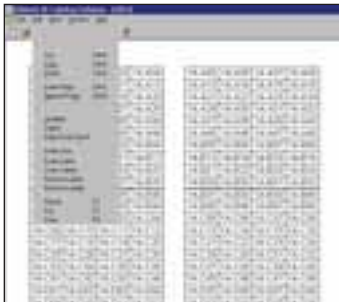
^Visio and WINDOWS are registered trademarks of Microsoft Corp. in the United States and/or other countries.

ULTIMATE ID™ Network System Labelling Software

- *ULTIMATE ID™* software is part of a complete system for identification designed to efficiently support TIA/EIA-606-A standard labelling requirements; reference pages 357 - 369 for a complete system overview
- Fast and easy creation of labels for *ULTIMATE ID™* Network Labelling System patch panels, faceplates, surface mount boxes, and marker ties
- Create alpha and numeric serialisations
- 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 Labelling Compliance Brochure that assists 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, 98, Me, 2000, NT 4.x, and XP; minimum 486 processor; minimum 10MB of RAM; 30 MB hard drive space



Part Number	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
UISW	<i>ULTIMATE ID™</i> labelling software supplied on CD-ROM.	1	10

[^] WINDOWS, EXCEL and ACCESS are registered trademarks of Microsoft Corp. in the United States and other countries.

TIA/EIA Standard Guide

TIA/EIA-568-B

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The information contained within this section contains portions of the TIA/EIA-568-B, TIA/EIA-569-A, TIA/EIA-606-A, TIA/EIA-607 standards published by the Telecommunications Industry Association (TIA).*

"For further information on how to obtain TIA standards please go to <http://global.ihs.com> or contact Global Engineering Documents at +1 303-397-7956"

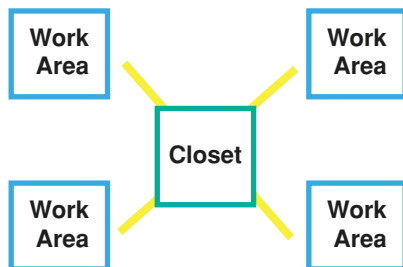
TIA/EIA-568-B Commercial Building Telecommunications Cabling Standard

Purpose

This standard specifies a generic telecommunications cabling system for commercial buildings that will support a multi-product, multi-vendor environment. The purpose of this standard is to enable the planning and installation of a structured cabling system for commercial buildings. This standard establishes performance and technical criteria for various cabling system configurations for accessing and connecting their respective elements. When applying specific applications to these cabling systems, the user is cautioned to consult application standards, regulations, equipment vendors, and system and service suppliers for applicability, limitations, and ancillary requirements.

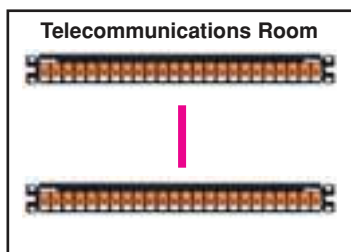
Horizontal Cabling

Shall be star topology:



Each work area telecommunications outlet/connector shall be connected to a horizontal interconnect or cross-connect in a telecommunications room via the horizontal cable. Horizontal cabling shall contain no more than one transition point or consolidation point between the horizontal cross-connect and telecommunications outlet.

The maximum total length including patch cords and work area cables is 100 metres.



Patch cords in telecommunications room are recommended not to exceed 16' (5 metres).



Work area cables are recommended not to exceed 5 metres.

A minimum of two outlets are required for each individual work area.

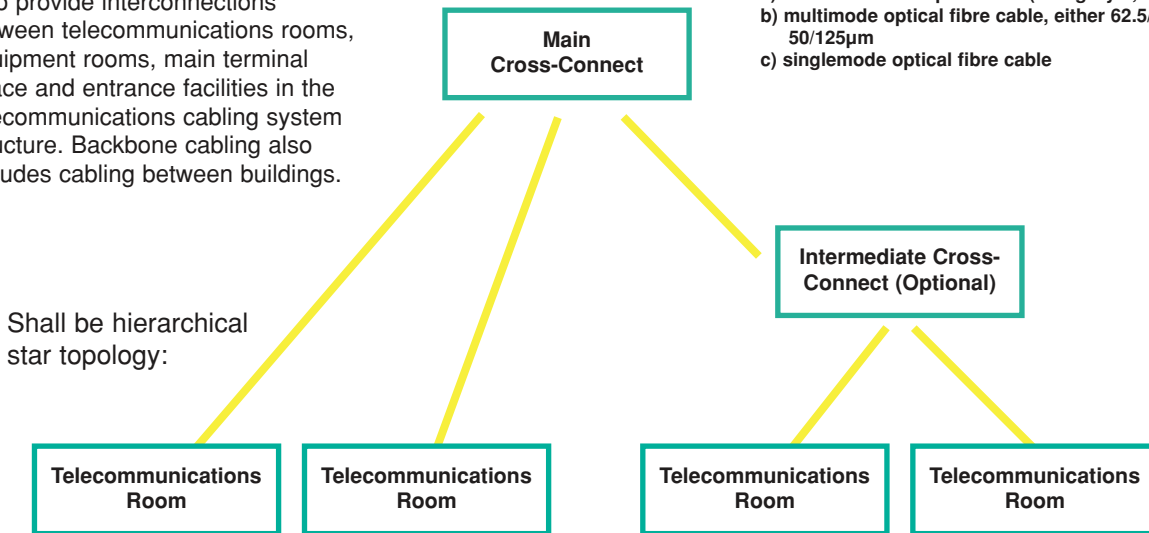


- One outlet/connector shall be a four-pair 100-ohm cable, Category 3 or higher (Category 5e or Category 6 recommended)
- Second outlet/connector(s) shall be a minimum of one of the following:
 - 1) four-pair 100-ohm Category 5e cable or Category 6
 - 2) two-fibre multimode optical fibre cable, either 62.5/125mm or 50/125mm

Backbone Cabling

The function of the backbone cabling is to provide interconnections between telecommunications rooms, equipment rooms, main terminal space and entrance facilities in the telecommunications cabling system structure. Backbone cabling also includes cabling between buildings.

Recognised backbone cables are:
 a) 100-ohm twisted-pair cable (Category 3, 5e and 6)
 b) multimode optical fibre cable, either 62.5/125µm or 50/125µm
 c) singlemode optical fibre cable



Maximum distance between main cross-connect and telecommunications room:

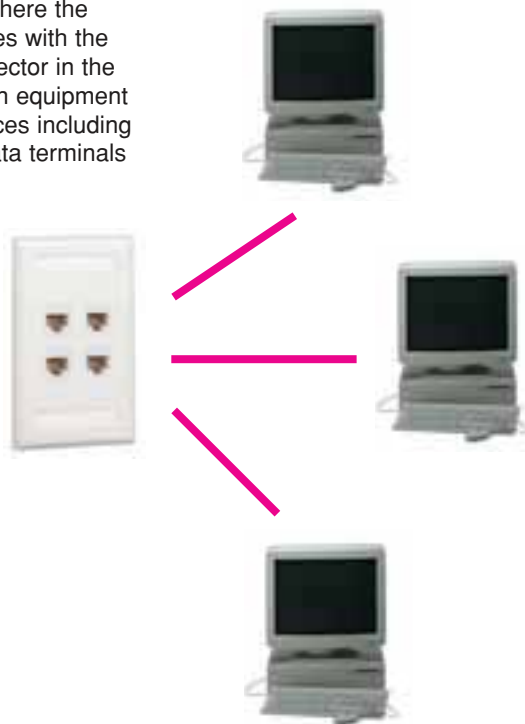
- 100-ohm twisted-pair (voice only) = 800 metres
- Category 3 100-ohm twisted-pair (appl. to 16 MHz) = 100 metres*
- Category 5e 100-ohm twisted-pair (appl. to 100 MHz) = 100 metres*
- Category 6 100-ohm twisted-pair (appl. to 100 MHz) = 100 metres*
- Multimode Fibre (62.5/125µm or 50/125µm = 2000 metres
- Multimode Fibre (850nm laser optimised 50/125µm = 300 metres
- Singlemode Fibre = 3000 metres

*Includes equipment patch cords at both ends.

Work Area

The Work Area is the location where the work station equipment interfaces with the telecommunications outlet/connector in the cabling system. The work station equipment can be any of a number of devices including but not limited to telephones, data terminals and computers.

Design for easy moves, adds and changes.



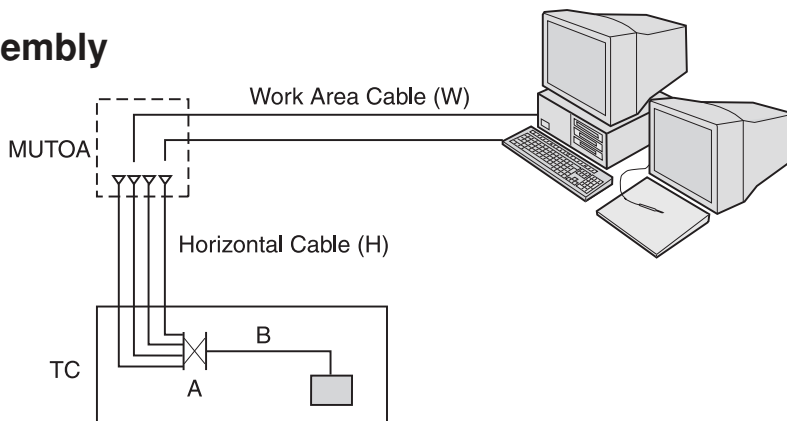
Application specific electrical components shall be placed external to the faceplate.

Open Office Cabling

Provides two additional cabling options for open office environments. A multi-user telecom outlet assembly (MUTOA) and consolidation point (CP).

Multi-User Telecom Outlet Assembly (MUTOA)

- Horizontal cables are terminated in a common location
- The work area cables shall be connected directly to work station equipment without any additional intermediate connections
- Shall serve no more than 12 work areas
- Shall be permanently mounted, not in ceiling spaces



Horizontal Distances for Copper Links

Allows for the Work Area cable to extend up to 22 metres. As compensation for this increased work area cable length, the horizontal cable length must be reduced by the formulas shown below.

$$C = (102 - H)/1.2$$

$$W = C - 5 \leq 22 \text{ metres}$$

Where W is the work area cable length, H is the horizontal cable length, and C is the total combined length of work area cable, patch cords, and equipment cable. The table summarises these formulas.

Maximum Length of Horizontal Cable H metres	Maximum Length of Work Area Cable W metres	Maximum Length of Work Area Cable Patch Cords and Equipment Cable C metres
90	5	10
85	9	14
80	13	18
75	17	22
70	22	27

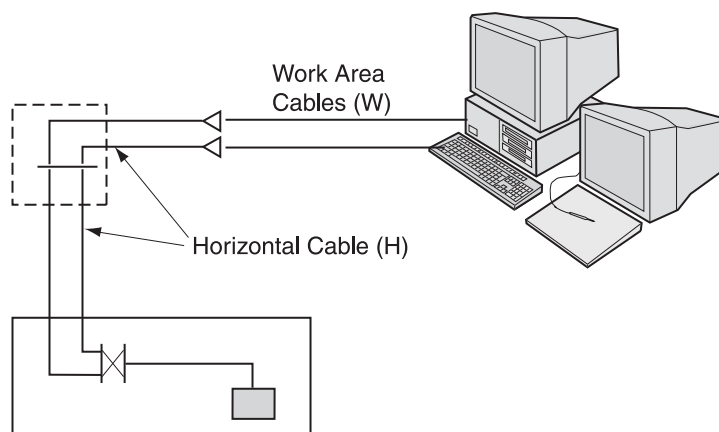
NOTE: The formulas and table above assume that the total length of the telecommunications closet patch cords is 16' (5 metres).

Horizontal Distances for Fibre Optical Links

Any combination of horizontal cables, work area cables, patch cords and equipment cables is acceptable as long as total length does not exceed 100 metres.

Consolidation Point Connector

- Interconnection point within horizontal cabling
- Work area outlet is retained
- Serve no more than 12 work areas
- No more than one allowed in each horizontal run
- Should be located at least 15 metres from the telecommunications room



Telecommunications Room

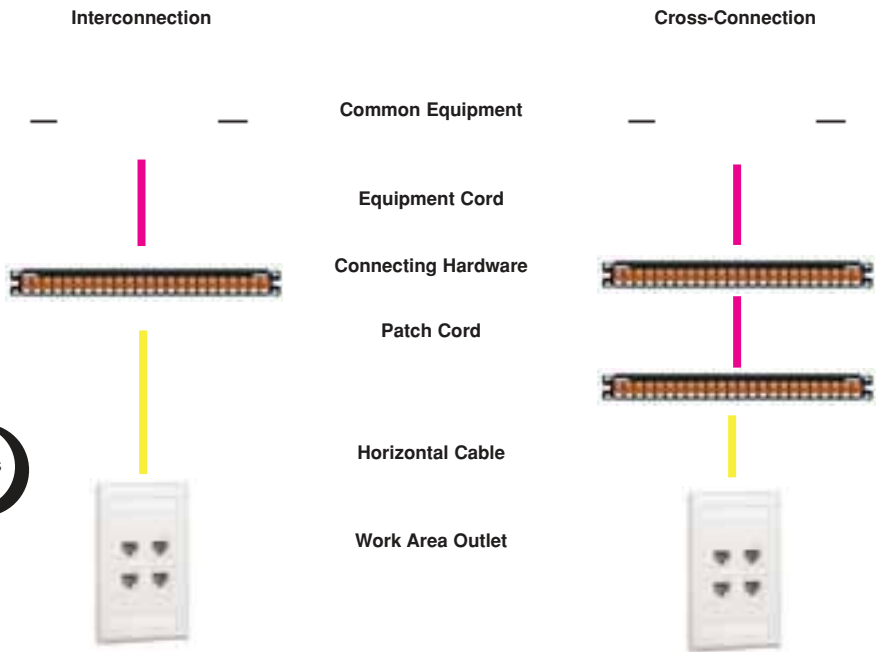
The primary function of the telecommunications room is the termination of horizontal and backbone cables to compatible connecting hardware.

- All connections between horizontal and backbone cables shall be cross-connects
- Shall be designed according to TIA/EIA-569-B

Cable Management Precautions:

- Avoid cable stress/tension
- Use appropriate cable routing and dressing fixtures
- Cables should not be routed in tightly circled bundles

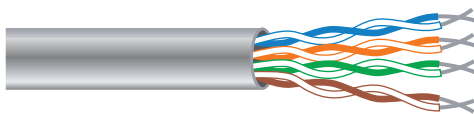
Installer Tip
Use *TAK-TY*™ Hook & Loop cable ties in the telecommunications room. (See page xx)



Media: UTP Cabling

Recognised Categories of UTP cabling are as follows:

- Category 6: Requirements specified up to 250 MHz
- Category 5e: Requirements specified up to 100 MHz
- Category 3: Requirements specified up to 16 MHz

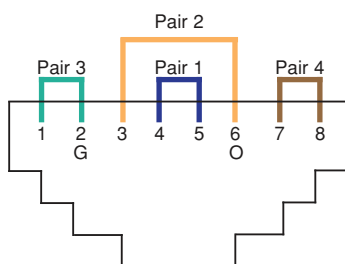


Horizontal Cabling:

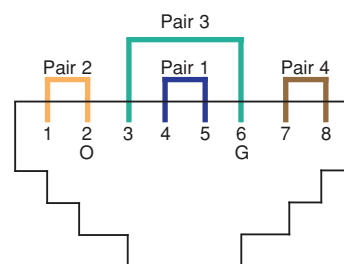
- Cable specified is 22 or 24 AWG solid 4-pair unshielded twisted-pair
- Overall shield (referred to as screened twisted-pair cable - ScTP) is also allowed

Cable shall be terminated to an 8 position modular jack.

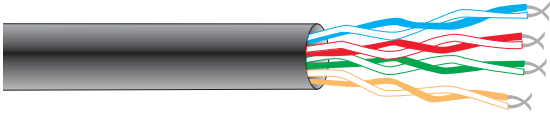
Pin/Pair Assignment: T568A



Pin/Pair Assignment: T568B (Optional)



Media: UTP Cabling Practices

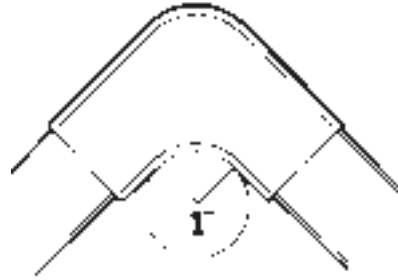


- Maintain pair twists as close as possible to the point of termination
- Untwisting shall not exceed 13mm for Category 5 cables or higher
- Untwisting shall not exceed 25mm for Category 3 cables
- Maximum pulling tension = 110N
- Strip back jacket only as far as required for proper termination

Minimum bend radius under no load shall be four times the cable diameter

Maximum cable diameter for Category 5e cable is 6.35mm

$.25" \times 4 = 25.4\text{mm}$



Patch Cords

- Patch cords should be of stranded construction
- Patch cords require the same transmission requirements as horizontal cable with the exception of attenuation (20% more attenuation is allowed for stranded cable)
- Cross-connect jumpers and cables used for patch cords should be of the same performance category or higher as the horizontal cables to which they connect



Media: Optical Fibre

Optical fibre cabling for horizontal and backbone applications:

- Horizontal:
Two-fibre multimode optical fibre cable, either 62.5/125µm or 50/125µm
- Backbone:
Multimode, optical fibre cable, either 62.5/125mm or 50/125mm, or singlemode optical fibre cable

Inside Plant Cabling Practices:

- 2- and 4-fibre cables intended for horizontal or centralised cabling shall support a bend radius of 25mm under no-load conditions.
Maximum pulling tension = 222N

Optical fibre patch cords:

- Must be two-fibre cable of an indoor construction, with the same fibre type as the optical fibre cabling



Cabling Transmission Performance and Test Requirements

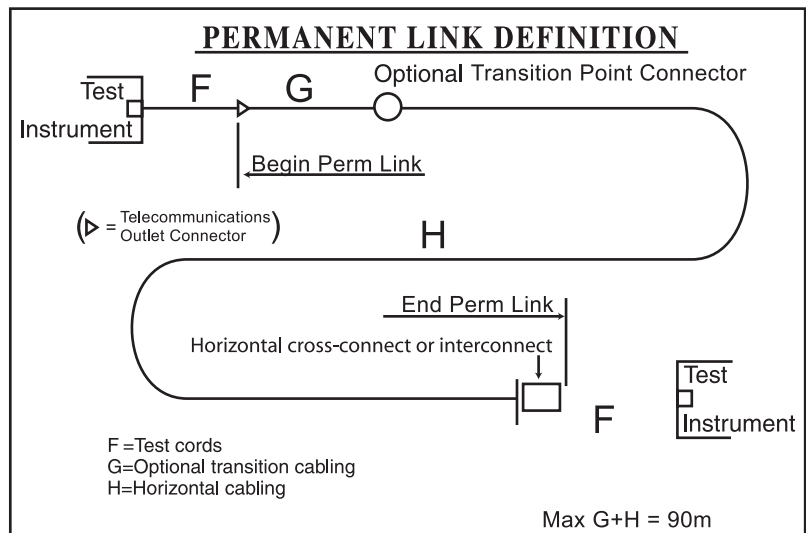
Specifies the electrical characteristics of field test instruments, test methods, and minimum transmission requirements for 100-ohm twisted-pair cabling.

Applicable to:

- 100-ohm four-pair UTP and ScTP cabling only
- Horizontal cable only

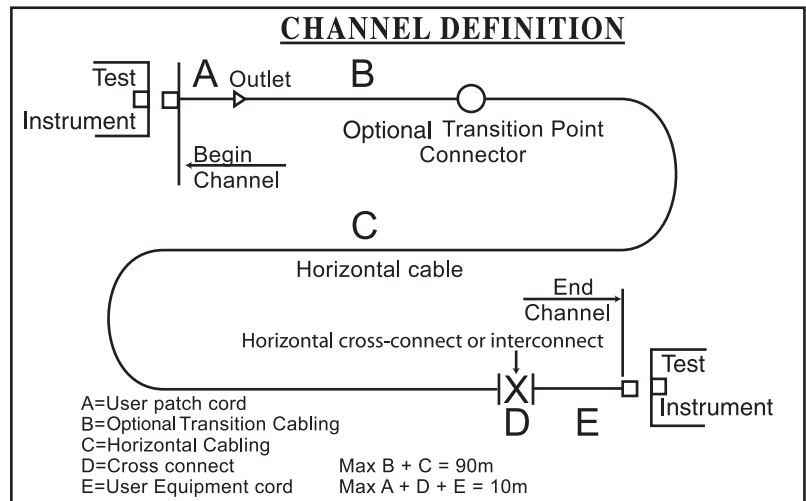
Permanent Link

- Used to verify the performance of permanently installed cabling
- Includes cable and connecting hardware only
- Limited to 90 metres



Channel

- Includes cable, connecting hardware and patch cords
- Defines entire channel
- Limited to 100 metres
- The total length of equipment cords, patch cords or jumpers and work area cords shall not exceed 10 m



Test Parameters

The primary field test parameters are:

- Wire map
- Length
- Insertion loss
- Near-end crosstalk (NEXT) loss*
- Power sum near-end crosstalk (PSNEXT) loss
- Equal-level far-end crosstalk (ELFEXT)
- Power sum equal-level far-end crosstalk (PSELFEXT)
- Return loss
- Propagation delay
- Delay skew

*Near End Cross-Talk is defined as the coupling on one pair when another pair is transmitting.

Centralised Optical Fibre Cabling Guidelines

Provides guidelines for implementing a centralised optical fibre cabling system. It offers three alternatives to installing a cross-connect in the telecommunications room. These three alternatives are Pull-Through, Interconnect or Splice.

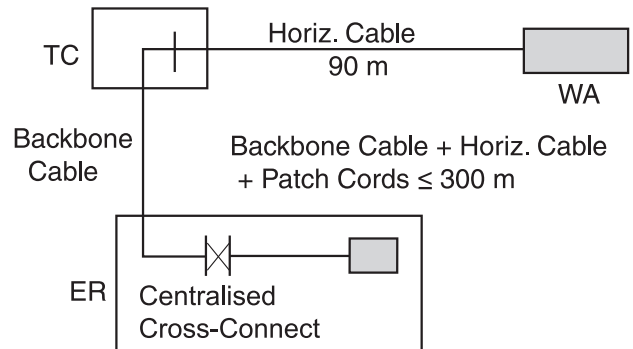
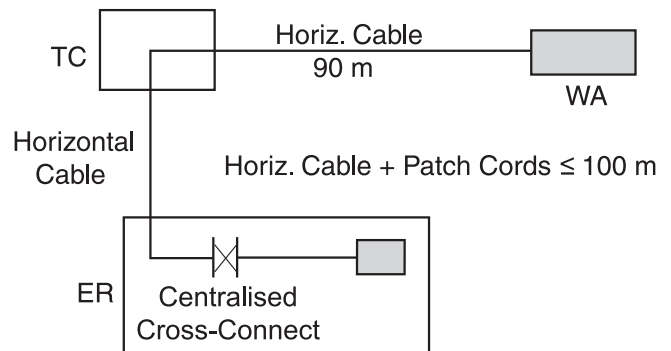
- Centralised cabling design shall allow for migration (in part or in total) of the pull-through, interconnect, or splice implementation to a cross-connection implementation
- Centralised cabling design shall allow for the addition and removal of horizontal and intrabuilding backbone fibres

Pull-Through

- The layout of both rack-mount and wall-mount termination hardware should accommodate modular growth in an orderly manner
- The specifications of ANSI/TIA/EIA-569-A shall be followed
- Centralised cabling shall support the labelling requirements of ANSI/TIA/EIA-606-A
- Continuous sheath cables pulled from a centralised cross-connect through the telecommunications room to the work area
- Length from the centralised cross-connect to the work area is limited to 90 metres

Interconnect or Splice

- Provide interconnection or splice in the telecommunications room
- Length from the centralised cross-connect to the work area is limited to 300 metres
- The intrabuilding backbone fibre count should be sized to deliver present and future applications to the maximum work area density within the area served by the telecommunications room
- Generally, two fibres are required for each application delivered to a work area



TIA/EIA 569-A Commercial Building Standard for Telecommunications Pathways and Spaces

Purpose

This standard specifies the design and construction practices in support of telecommunications media and equipment. Standards are given for spaces and pathways into and through which telecommunications equipment and media are installed within and between commercial buildings.

General Guidelines

- Perimeter raceways are often installed at baseboard, chair-rail, or ceiling height and may contain work area outlets. When outlets are provided, the outlet height must comply with ADA requirements where applicable.
- Surface raceway may be used as a distribution system within and between rooms. The raceway may extend from building pathways to furniture pathways to connect furniture partitions or furniture systems.
- Surface raceway consists of base, cover and related fittings that mount directly on walls at appropriate work levels to provide a continuous perimeter pathway. Telecommunication outlets are located along the raceway and may be moved or added after initial installation if desired.
- Multi-channel raceway provides a separate perimeter pathway for different cable systems. Separate channels are maintained for each cable system throughout the routing scheme by a divider-wall, either pre-configured or modular.

Separation between Telecommunications and Power Cables

Co-installation of telecommunications cable and power cable is governed by the applicable electrical code for safety. Recommended separation examples of electrically conductive telecommunications cable from branch circuits are as follows:

- Separation from power conductors
- Separation and barriers within raceways
- Separation within outlet boxes or compartments

(Articles 388.70 and 800-52 of the 2002 NEC require a physical barrier between power and telecommunication cables).

Bend Radius Control

Surface raceway shall incorporate a bend radius of not less than 25.4mm under a condition of maximum fill.

Pathway Sizing

For planning perimeter pathways, the maximum fill shall be 40 percent. A maximum fill of 60 percent is allowed to accommodate unplanned additions after initial installation. The practical raceway capacity for telecommunication cabling will deviate depending on the cable-bending radius. The fill capacities of surface raceways may approach 60% when appropriate bend radius is provided. Factors that affect fill capacity (raceway usable area, fittings, terminations, etc.) are discussed on the following page.

TIA/EIA 569-A Commercial Building Standard for Telecommunications Pathways and Spaces (continued)

Initially one may think... $\frac{\text{RACEWAY AREA}}{\text{CABLE(S) AREA}} = \# \text{ of Cables that fit in the Channel}$

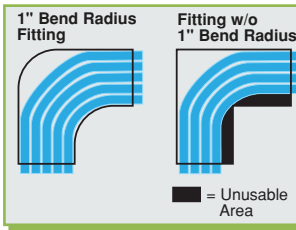
But in reality this is impossible... Why?

Consider this...

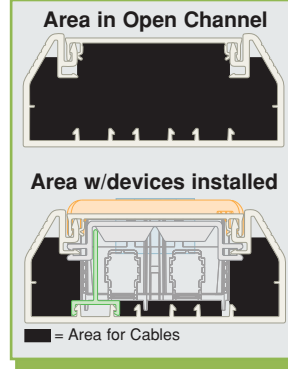
The Packing Factor



- Cable placed into the channel leave some unusable area depending on the diameter of the cable and shape of the raceway channel. Commonly referred to as the "packing factor."



- If the cables being routed require a 25.4mm bend radius and the fittings have a smaller radius even less internal area is available for cables.



- Termination devices placed within the surface raceway also reduce the available internal area within the channel.*
- Add in other real world considerations, such as, interwoven/crossed cables and the usable area becomes even less.

Pathway Sizing (continued)

The following guidelines can be used to provide cable fill quantities when specifying PANWAY™ Surface Raceway Systems.

$$\text{SPEC} = \frac{\text{Raceway Internal Area}}{\text{Cable Area}} \times 40\%$$

SPEC: The cable quantity to be used when specifying a new raceway. This quantity leaves room for adding cabling in the future.

$$\text{MAX} = \frac{\text{Raceway Internal Area}}{\text{Cable Area}} \times 60\%$$

MAX: The maximum cable quantity that will fit into the raceway (considering factors previously mentioned).[^]

[^]If the bend radius of the cable cannot be realised with the fittings of the system this value cannot be attained.

Example: Find the SPEC and MAX cable quantities for LDP3 (internal area = 135.48mm²) when routing Category 5e UTP cabling (dia = 5.5mm)

1. Determine Cable Area:

$$\begin{aligned} \text{CABLE AREA} &= \text{TII}^2 \\ &= 3.14 (5.5/2) \\ &= 238.38\text{mm}^2 \end{aligned}$$

2. Determine SPEC Quantity:

$$\begin{aligned} \text{SPEC} &= 135.48\text{mm}^2 / 238.38\text{mm}^2 \times 10.2\text{mm} \\ &= 57.9 \\ &= 2 \text{ Cables} \end{aligned}$$

3. Determine MAX Quantity:

$$\begin{aligned} \text{MAX} &= 135.48\text{mm}^2 / 238.38\text{mm}^2 \times 15.24\text{mm} \\ &= 86.61 \\ &= 3 \text{ Cables} \end{aligned}$$

Note 1: New installations of perimeter raceway systems should be sized using a cable fill based on 40% of the raceway usable internal cross-sectional area. A maximum cable fill approaching 60% of the raceway usable cross-sectional area may be attained if the pathway provides the appropriate bend radius for the radius of the cable being routed.

Note 2: Power cable fill capacities of non-metallic surface raceways are determined by the UL 5A temperature test. The published power wire fill capacity tables indicate the maximum number of power conductors that can be placed into the raceway channel or indicated configuration.

* PANDUIT™ Quick Wire Fill Capacities reference only the usable area for each system configuration.

NOTE: The information provided above is intended for use only as a guideline. Please refer to the specified document for detailed descriptions or standards information.

TIA/EIA-606-A Administration Standard for Commercial Telecommunications Infrastructure

Purpose:

The TIA/EIA-606-A standard establishes guidelines for owners, end users, manufacturers, consultants, contractors, designers, installers, and facilities administrators involved in the administration of the telecommunications infrastructure. This standard includes requirements for identifiers, records, and **labelling**.

Classes of Administration

Four classes of administration are specified in the standard to accommodate the varying degrees of complexity present in telecommunications infrastructures. The specifications for each class include requirements for identifiers, records and labelling.

Identifiers An identifier is a unique designation used to refer to each element of the infrastructure.

Records A collection of detailed information related to a specific element of the telecommunications infrastructure.

Labelling A label is a physical representation of an identifier that is attached to the element identified. The size, colour, and contrast of all labels should be selected to ensure that the identifiers are easily read. Labels should be visible during the installation of and normal maintenance of the infrastructure. Labels should be resistant to the environmental conditions at the point of installation (such as moisture or heat), and should have a design life equal to or greater than that of the labeled component. **To maximise legibility, all labels shall be printed or generated by a mechanical device.**

Class 1 addresses the needs of a premises that is served by a single equipment room (ER). This equipment room is the only telecommunications space (TS) administered.

Required in class 1 administration are identifiers for the TS, each telecommunications grounding busbar (TGB), the telecommunications main grounding busbar (TMGB), and all elements of the horizontal links (**Patch Panel Ports, IDC (Punch Down Block) Connectors, Copper Four-Pair Horizontal Cable, Fibre Cable, Outlets, & other Connectors**).

Class 2 provides for the needs of a single building with one or more telecommunication spaces.

Required in Class 2 administration are all identifiers required in Class 1 plus building backbone cable identifier, building backbone pair or optical fibre identifier, and firestopping location identifier.

Class 3 addresses the needs of a campus, including its buildings, and outside plant elements.

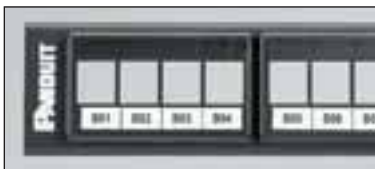
Required in Class 3 administration are all identifiers required in Class 1 & 2 plus building identifiers, campus backbone identifiers, campus backbone pair or optical fibre identifiers.

Class 4 addresses the needs of a multi-site system.

Required in Class 4 administration are all identifiers required in Class 1, 2 & 3 plus campus or site identifier.

TIA/EIA-606-A Administration Standard for Commercial Telecommunications Infrastructure (continued)

Patch Panel Ports



In the TS, each patch panel port **shall be labelled** with the an portion of the identifier. This requirement may be met by labelling a patch panel with the a portion of the identifier, and each port with the n portion where:

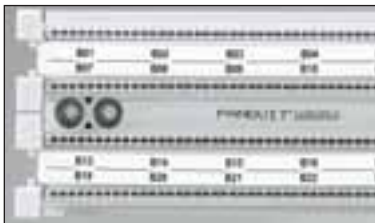
a = one or two alpha characters uniquely identifying a single patch panel, or a group of patch panels with sequentially numbered ports

n = two to four numeric characters designating the port on a patch panel in the TS

EXAMPLE:

"B07" = patch panel B, position 07

IDC (Punch Down Block) Connector



In the TS, each section of an IDC connector (punch-down block) terminating a four-pair cable **shall be labelled** with the an portion of the identifier. This requirement may be met by labelling an IDC connector or group of IDC connectors with the a portion of the identifier, and the section of an IDC connector terminating a four-pair cable labelled with the n portion where:

a = one or two alpha characters uniquely identifying an IDC connector, or a group of IDC connectors, serving as part of the horizontal cross-connect

n = two to four numeric characters designating the section of an IDC connector on which a four-pair horizontal cable is terminated in the TS

EXAMPLE:

"B04" = IDC block B, position 04

Copper Four-Pair Horizontal Cable



Each end of a horizontal cable **shall be labelled** within 300mm of the end of the cable jacket with the horizontal link identifier, which shall be visible on the exposed part of the cable jacket. This shall include each cable in the TS, at the work area, and at a CP (consolidation point), if present. A horizontal link identifier shall have a format of fs-an where:

f = numeric character(s) identifying the floor of the building occupied by the TS

s = alpha character(s) uniquely identifying the TS on floor f, or the building area in which the space is located

a = one or two alpha characters uniquely identifying a single patch panel, a group of patch panels with sequentially numbered ports, an IDC connector, or a group of IDC connectors, serving as part of the horizontal cross-connect

n = two to four numeric characters designating the port on a patch panel in the TS, or the section of an IDC connector on which a four-pair horizontal cable is terminated in the TS

EXAMPLE:

"1A-A04" = cable origination point first floor, closet A, rack A, position 04

TIA/EIA-606-A Administration Standard for Commercial Telecommunications Infrastructure (continued)

Fibre Cable



Each end of a horizontal cable (a pair of optical fibres in a cable) shall be labelled within 300mm of the end of the cable jacket with the horizontal link identifier, which shall be visible on the exposed part of the cable jacket. This shall include each cable in the TS, at the work area, and at a CP (consolidation point), if present. A horizontal link identifier shall have a format of fs-an where:

f = numeric character(s) identifying the floor of the building occupied by the TS

s = alpha character(s) uniquely identifying the TS on floor f, or the building area in which the space is located

a = one or two alpha characters uniquely identifying a single patch panel, or a group of patch panels with sequentially numbered ports

n = two to four numeric characters designating the port on a patch panel in the TS

EXAMPLE:

"1D-D003" = cable origination point first floor, closet D, rack D, position 003

Outlets



In the work area, each individual telecommunications outlet/connector shall be labelled with the horizontal link identifier. The labelling shall appear on the connector, faceplate, or MUTOA, in a way that clearly identifies the individual connector associated with the particular identifier. A horizontal link identifier shall have a format of fs-an where:

f = numeric character(s) identifying the floor of the building occupied by the TS

s = alpha character(s) uniquely identifying the TS on floor f, or the building area in which the space is located

a = one or two alpha characters uniquely identifying a single patch panel, a group of patch panels with sequentially numbered ports, an IDC connector, or a group of IDC connectors, serving as part of the horizontal cross-connect

n = two to four numeric characters designating the port on a patch panel in the TS

EXAMPLE:

"1A-B07" = origination point first floor, closet A, rack B, position 07

Connectors



In the work area, each individual telecommunications outlet/connector shall be labelled with the horizontal link identifier. The labelling shall appear on the connector, faceplate, or MUTOA, in a way that clearly identifies the individual connector associated with the particular identifier. A horizontal link identifier shall have a format of fs-an where:

f = numeric character(s) identifying the floor of the building occupied by the TS

s = alpha character(s) uniquely identifying the TS on floor f, or the building area in which the space is located

a = one or two alpha characters uniquely identifying a single patch panel, a group of patch panels with sequentially numbered ports, an IDC connector, or a group of IDC connectors, serving as part of the horizontal cross-connect

n = two to four numeric characters designating the port on a patch panel in the TS

EXAMPLE:

"1A-B07" = origination point first floor, closet A, rack B, position 07

TIA/EIA-607 Commercial Building and Bonding Requirement for Telecommunications

Purpose

Requires a separate network grounding system that joins the power grounding system at the service entrance.

Bibliography of References

ANSI/TIA/EIA-568-B.1, *Commercial Building Telecommunications Cabling Standard —Part 1: General Requirements*

ANSI/TIA/EIA-568-B.2, *Commercial Building Telecommunications Cabling Standard —Part 2: Balanced Twisted-Pair Cabling Components*
—Addendum 1: *Transmission Performance Specifications for 4-pair 100 W Category 6 Cabling*

ANSI/TIA/EIA-568-B.3, *Optical Fibre Cabling Components Standard*

ANSI/TIA/EIA-569-A, *Commercial Building Standard for Telecommunications Pathways and Spaces*

ANSI/TIA/EIA-606-A, *Administration Standard for the Telecommunications Infrastructure of Commercial Buildings*

ANSI/TIA/EIA-607, *Commercial Building Grounding and Bonding Requirements for Telecommunications*

For further information on how to obtain TIA standards please go to <http://global.ihs.com>

NOTES

Common Terms

Access Floor

A floor which is raised by a system of pedestals and/or stringers to support removable floor panels to provide access to the space below. The same concept as a ceiling that consists of removable panels.

Access Code

The digits that a telephone user must dial to obtain access to a specific service connection via a particular out going line. The 8 or 9 dialed on a hotel or company telephone is a good example.

Access Control

The process in which a network or any of the components within it controls using entity (person, programme, etc.) access. The most common form of access control is the use of user identification numbers and passwords.

Access Network

A "sub-network" which is implemented to provide simple access to a more complex network. The access network often allows communication between a limited, local, group of users and also additional access to a wider area population.

Access Provider

A company that provides customers access to the Internet.

Address

The unique identifier for a network device (computer, printer, hub, switch, etc) within a network, used to identify the source and receiver of a message.

American Wire Gauge (AWG)

A standardised method of specifying the size of wires. For example home wiring is carried out using AWG #14 or #12 whereas telecommunication wire is normally AWG #22, #24 or #26. The AWG number refers to the number of times the copper is drawn through a die to reduce its diameter. I.e: 24 AWG is drawn twenty four times. Therefore the larger the AWG number, the smaller the diameter of the wire.

Analogue Transmission

Use of voltage amplitude or frequency variations to transmit signals. Derived from the term "analogous" meaning similar to something. In voice, video, or imaging, the sine wave of the transmitted signal is the same as that of the original signal. Voice and data signals that are not digitally switched.

Application Layer

The name of the layer within the OSI seven layer network architecture model which performs the functions necessary to ensure the proper interaction between a computer application programme and all other network and system software so that the desired bus end result is achieved.

Asynchronous Transmission

The movement of binary bits across a transmission medium where the transmitter and receiver have no common time reference. During asynchronous transmission it is common to place controlling start and stop bits (framing) around each individual encoded character.

Asynchronous Transmission Mode (ATM)

A technology used for Broadband Integrated Services Digital Network (BISDN). A high-speed cell switched technology that transmits broadband signals in fixed length 53 byte cells.

Attenuation

The loss of the strength of the signal as it is transmitted from output to input measured in dBs. Lower the dB values indicate less signal loss thus better signal transmission.

Attenuation to Crosstalk Ratio (ACR)

A calculation that accounts for the loss of signal strength and noise coupling between the pairs on Unshielded Twisted Pair (UTP) cable. It is determined by subtracting the attenuation dB value from the crosstalk dB value.

Autotest

A function of field test devices that allows the device to automatically run all of the required tests in a sequential manner.

Backbone Cabling

The components (cable and connecting hardware) that provide connections between entrance facilities, equipment rooms, and telecommunications rooms.

Balanced Transmission Line

A line having conductors with equal resistance per unit length and equal capacitance and inductance between each conductor and ground.

Balun

Balanced/Unbalanced. An impedance matching device, which converts, unbalanced signal transmission to balanced. Matches coax to twisted pair.

Bandwidth

The portion of a spectrum of frequencies, which can be effectively used to transmit information, expressed in Hz.

Baseband Signal

Any transmission, analog or digital, where the signal travels from the transmitter to the receiver at the original frequency.

Baseband Transmission

A transmission technique in which the total available bandwidth is dedicated to a single communications channel. Only one single message can be transmitted at a time.

Basic Link

A link test configuration that consists of up to 90 metres of horizontal cable with a connector on each end and up to 2 metres of test equipment cord on each end.

Baud Rate

The signaling rate of a transmission medium. A 2400 baud line carries 2400 signal changes per second. This number may or may not be equal to the bit rate depending on whether or not one signal change equals one bit.

Bend Radius

Indicates the minimum radius that a cable may be bent before disrupting the signal carrying capabilities of the cable.

Binary Code

An encoding technique in which a logical pattern of zeros and ones is used to represent "real world" information.

Bit Error Rate (BER)

The ratio of bits received in error to the total number of bits transmitted in a digital signal transmission.

Bits per Second (BPS)

A measure of the transmission speed of a signal transmission system. May not be the same as baud rate depending on how the encoding of logical ones and zeros is performed.

BNC Connector

A specific type of connector used for coaxial cable connection that requires a twist-lock type of connection.

Bonding

A continuous electrical path formed by permanently joining metallic components together to safely conduct any electrical current imposed and to limit any potential differences between the metal components.

Bridge

A general term used to describe electronic devices, which interconnect segments of the same logical network, or to connect separate LANs.

Bridge Tap

An undefined length of wire connected between the normal end points of a circuit, which introduces an unwanted modification of the transmission path characteristics.

Broadband Transmission

The transmission of multiple signals at the same time over the same physical medium, sharing the entire bandwidth of the medium. Signals are divided, usually by frequency divisions.

Buffer Coating

A thin thermoplastic coating applied to the acrylate layer of optical fibre to provide strength and protection against environmental hazards.

Buffer Tube

A loose fitting cover for loose tube constructed optical fibre cables to provide protection and isolation.

Bus Topology

The physical layout of a LAN whereby connection between devices is accomplished by connecting all devices to a single transmission medium (wire, fibre, etc.).

Byte

A set of eight bits. May also be referred to as an octet. A general term, computer and data communications devices often use 8 bit bytes which do not have any "real world" equivalent.

Cable

A collection of metallic wires or optical fibres surrounded by an insulator through which electric current or light can be passed.

Campus

Buildings and grounds having legal contiguous interconnection.

Capacitance

The tendency of an electronic component or conductor to store electrical energy.

Carrier Sense Multiple Access with Collision Detection (CSMA/CD)

An access method used in LAN technology, which allows devices to contend for network access. A device, which has data to transmit monitors the line (carrier sense) and transmits data when it determines the medium is free (no transmissions from other stations). Since more than one device may attempt to transmit at the same time, this process can result in collisions. If a collision is detected (collision detect) during transmission, the transmitting device (all transmitting devices) cease transmission and wait a period of time and then try again (multiple access). This access method with a randomised exponential back off is the medium access method specified in the IEEE 802.3 (Ethernet) LAN specification.

Central Office (CO)

The access provider's facility where customers lines are terminated and where the switching equipment to interconnect the lines is located.

Central Processing Unit (CPU)

A combination of the logic processor and timing control used as the basis of a digital computer. Commonly used to mean "computer".

Centralised Cabling

Based upon TIA/EIA TSB72 and incorporated into TIA/EIA-568-B.3. Allows optical fibre cabling to extend up to 300 metres from the work area outlet to a centralised cross-connect by using an interconnect or splice in the telecommunications room. Also allows cables to be pulled through the telecommunications room to a centralised cross-connect up to 90 metres from the work area outlet.

Centralised Processing

The method whereby data from various locations is moved to a single point for computer based processing. The opposite to distributed processing.

Channel

1) A data communications path such as a wire, a fibre optic conductor or a broadcast frequency. 2) TIA/EIA- 568-B.1 defines a channel as up to 90 metres of horizontal cable with connectors at the work area outlet and telecommunications room, plus up to 10 metres of patch cords and equipment cords at the work area outlet and in the equipment room for a maximum length of 100 metres.

Characteristic Impedance

The termination impedance of a balanced transmission line which will minimise end to end reflections.

Circuit

A physical electrical or optical path along which electrons or light flows.

Circuit Switching

The process whereby a circuit is switched into place at the inception of a telephone call, or computer data transfer session, and then maintained in place until the communications is discontinued.

Client

The hardware (workstation) or software which requests the computational services of a specific server.

Clock

(Or clocking signal) A transmission signal, of precisely defined frequency or pulse rate, used to synchronize a data transmitter and receiver.

Coaxial Cable

An unbalanced cable where an inner conductor and an outer grounded shield are positioned about a common axis. This type of cable has good noise immunity.

Collision

In an IEEE 802.3 (Ethernet) network the presence of two or more transmissions on the channel at the same time is considered to be a collision.

Collision Detection

A method used in LAN technology to detect the presence of two or more signals on the channel at the same time. In Baseband systems this process is simply a matter of determining the total energy level of the signal. One signal one energy level, two signals, twice the energy level. In an Ethernet network once a collision is detected all transmission is ceased and retransmitted after a random period of time.

Collocation

The process whereby equipment from multiple access providers is located at the same place usually to facilitate maintenance.

Common Carrier

1) A communications service supplier that is regulated in the public interest by the F.C.C. Examples include AT&T, Sprint, and MCI. 2) A communications service supplier that is rated and regulated (in the public interest) by a Federal, State or Local Utilities Commission.

Common Mode Noise

The transient (unwanted) voltage that appears between each signal conductor to ground. Caused by electrostatic or electromagnetic induction.

Communications Plenum Cable (CMP)

Cable that has an outer jacket that is rated for low smoke/ low flame tolerance and can be installed in areas in which conditioned air is circulated.

Communications Riser Cable (CMR)

Cable that has an outer jacket that has fire resistant characteristics to prevent the carrying of fire from floor to floor and therefore can be installed in vertical runs in multi-story buildings.

Communications Server

An intelligent device providing communications services for a population of users. Heavily used in local area networks to provide access to wide area services.

Community Antenna Television (CATV)

A television distribution service utilising a broadband cable based transmission. Otherwise known as "Cable TV".

Compatibility

Equipment components that can be used interchangeably with each other.

Compression

Any technique, which is used to reduce the number of bits, required to define information during transmission.

Concentrator

1) An analogue or digital device, which serves to reduce the number of trunks required. 2) A device, which gathers, messages from many lines and outputs them on to one line usually at a higher speed. Function is similar to that of a Multiplexer.

Congestion

The condition, in a packet switched network, when node transmission buffers are full and no more incoming packets can be accepted.

Connecting Hardware

A device providing mechanical cable terminations.

Connectivity

The state which allows the transfer of electrical signals from source to destination.

Connector

A mechanical attachment at the end of a conductor or optical fibre which facilitates their connection to a device.

Connecting (plug), duplex; optical fibre

A remateable device that terminates two fibres and mates with a duplex receptacle.

Consolidation Point

A location that provides the interconnection between horizontal cables extending from building pathways to horizontal cables extending into furniture pathways.

Core

The centre portion of an optical fibre through which the light is propagated.

Coupler

A device which is utilised to connect two other devices.

Cross-Connect

A location that provides for the termination and interconnection or cross-connection for backbone and horizontal cables.

Cross-Connection

A connection scheme that utilises patch cords or jumper wires to connect cabling runs, subsystems, and equipment.

Cross Talk

The undesirable coupling of signal from one conductor or pair to another. Measured in dB.

Customer Premises Equipment (CPE)

The equipment which is installed at a customer site to interface with and connect to the common carrier's external facilities.

Data

Any representation such as characters or bits etc to which meaning may be assigned.

Data Link

Any serial data communications transmission path between two devices.

Data Link Layer

The layer of the OSI model that assembles messages and coordinates their flow through bridges.

Data Network

Any network of interconnected devices constructed and used for, the transfer of data between the devices.

Data Rate

A measure of transmission speed. Normally specified in bits per second.

Data Stream

The flow of individual data bits being transmitted through a communications channel to accomplish the transfer of information.

Data Transfer Rate

The average flow per unit time of information from source to destination. The rate may be measured in terms of bits, bytes, blocks, frames, packets, etc., per second, minute, hour, etc.

Data/Voice Multiplexor (DVM)

A device used to combine voice and data signals on the same transmission line.

Decibel (dB)

A unit of measure of relative power. The unit used to describe levels of attenuation.

Demarcation Point

The point that defines the boundary for the end of the customer premises and the beginning of the public network.

Digital Signal

A signal that is transmitted in binary code. The data is encoded into a series of bits (0,1) transmitted across the cable and deciphered at the receiver.

Distributed Processing

The positioning of interconnected computers such that the application based "work to be done" is performed at the best physical and/or functional points throughout a network.

Drop

An available service point. Often used to describe the wiring (in a network) which is unique to a particular user.

Drop Cable

In local area network technology the cable used to connect a device to interface to the backbone network.

Effective Bandwidth

The maximum bit transmission rate through a specific medium.

EIA/TIA 568-B

A standard for commercial building wiring. Its purpose is to provide a generic telecommunications wiring system to support multi-product, multi-vendor installations. Topics covered include: media, topology, cable length & performance, installation practices, and lab and field testing.

Electromagnetic Interference (EMI)

Electromagnetic energy, which leaks from/into, any transmission medium that causes unwanted signals on the cable, device, or equipment.

Encryption

The mathematical process whereby the data in a message is modified to protect it from access to anyone other than the intended receiver.

Enterprise Networking

Information access in a multi vendor environment between a corporation's internal resources and suppliers, customers and other strategic partners.

Entrance Facility

The point which public and private network service cables enter a building and are terminated in an entrance room or space.

Equal Level Far End Crosstalk (ELFEXT)

A measure of unwanted signal coupling between pairs of a UTP cable measured at the end opposite the signal transmitter, relative to the received signal, accounts for the attenuation of the signal across the cable.

Equipment Room (Telecommunications)

An environmentally controlled centralised space for telecommunications equipment that usually houses a main or intermediate cross-connect.

Error Control

The facilities within a transmission system or network which ensure the reliable transfer of data.

Error Correction

The mechanism used to correct detected errors in a transmission. Correction is normally achieved by retransmissions of data.

Error Detection

The process whereby transmission errors are detected by using simple parity checks or more complex cyclic redundancy checks.

Ethernet

The LAN method developed by Xerox, DEC, and Intel. Uses the CSMA/CD physical access method. Originally in 1979, special 50 ohm co-axial cable and 10 million bit per second digital transmission was specified. Over the years it has evolved to Gigabit transmissions over UTP and optical fibre. Specified under the auspices of IEEE 802.3 committee.

Extended LAN

A local area network, which has had its dimensions, extended by the use of bridges.

Facsimile (FAX)

A process of transmitting text, graphics, etc via communications lines to a remote point where a hard copy is reproduced. Transmission may be Analogue or Digital.

Far-end Cross Talk (FEXT)

A measure of unwanted signal coupling between pairs of a UTP cable measured at the end opposite the signal transmitter.

Federal Communications Commission (FCC)

A board of five individuals appointed by the President of the United States and charged with the task of regulating (for the public good) communications within the U.S.

Fibre Data Distribution Interface (FDDI)

An interface to a Fibre Optic Distribution Bus which utilises the IEEE 802.8 specifications.

Fibre Loss

The energy loss in a light signal caused by transmission through a fibre optic medium.

Fibre Optics

A transmission medium which is constructed using fine glass fibres and through which information (data) is transferred using light waves created by a laser or light emitting diode.

File Server

A device in a LAN (or any other network) which services the filing needs of other computers, where network information is stored and retrieved.

Fire Stop

A device or material that is installed in architectural barriers to prevent passage of flame, smoke, water, or gases through the rated barrier.

Floor Distributor

International expression for horizontal cross-connect.

Frame

A data unit that contains data and control information to transfer data between devices on a network and is defined by the data link layer (point to point) protocol.

Frame Relay

A service transfers data link layer transmission frames from defined source to defined destination.

Frequency

The rate, in Hertz, at which a signal pattern is repeated.

Frequency Band

A specified range of available frequencies.

Full Duplex Transmission (FDX)

Bi-directional transmission. Transmission in both directions at the same time.

Fusion Splice

A method of splicing optical fibres together by applying heat, usually from a laser, to melt and fuse the ends of the fibres together to form a permanent bond.

Gateway

The hardware or software products, which create, access from one TOTAL environment to another. (The term is often used to describe a device that interconnects networks at ANY level.)

Gigabit Ethernet

A carrier sense multiple access with collision detection LAN standard developed by the IEEE 802 committee that operates at a data rate up to 1 gigabit per second.

Gender (Connector)

Connectors are assigned gender to describe their physical type. Connectors which have pins are considered to be male and those that have sockets are considered to be female.

Graded Index Fibre

An optical fibre design in which the refractive index of the core is lower on the outer layer of the core and gradually increases as it moves through the layers to the centre of the core. This allows the light to travel faster on the outer layers of the core than in the centre. This reduces modal dispersion and increases the fibre bandwidth.

Ground

A circuit connection to the earth.

Half Duplex (HDX)

The process whereby a device can receive or transmit but never do both at the same time.

Hard Wired

Describes a connection between two or more devices, which is direct and permanent.

Header

The controlling information in a transmission frame, which precedes the data, field. May be abbreviated to HDR.

Hertz

A measure of frequency. The same as cycles per second.

Horizontal Cabling

The cabling and components that extend from the horizontal cross-connect in the Telecommunications Room to the termination point at the Work Area outlet.

Horizontal Cross-connect

A termination point, such as a patch panel or punch down block, located in the Telecommunications Room that allows for equipment and backbone cabling to be connected to horizontal cabling with patch cords or jumper wires. Sometimes referred to as Floor Distributor.

Hub

A device from which a number of transmission links radiate. The network so formed has the same configuration as a star topology.

Hybrid Network

1) A network that combines analogue and digital signalling. 2) A network that combines local and global connection. 3) A network which consists of more than one architecture. 4.) Any combination of the previous definitions.

Identifier

An item of information that links a specific element of the telecommunications infrastructure with its corresponding record.

IEEE (IEEE)

Institute of Electrical and Electronic Engineers. A United States professional membership organisation active in the creation and promotion and support of specifications and standards. IEEE Computer Society. 5855 Naples Plaza, Suite 301, Long Beach, CA 90803.

IEEE 802.3

The specification for the physical layer in a LAN, which uses CSMA/CD as its access method, a bus configuration and baseband transmission. Based on original DIX Ethernet specifications.

IEEE 802.5

The specification for the physical layer in a LAN which uses token passing as its access method, a ring configuration and (normally) baseband transmission. Used in IBM's implementation of ring technology.

IEEE 802.6

The specification for a Metropolitan area network.

IEEE 802.8

The specification for a fibre distribution bus using token passing as its access method.

Impedance

The combined effect of the electrical resistance, capacitance and inductance of a transmission medium. Expressed in ohms.

Infrastructure (Telecommunications)

The Telecommunications components, excluding the equipment, that together provides the fundamental support for the distribution of all information within a building or campus.

Insertion Loss

Loss resulting from the insertion of a device such as a coupler, connector, or splice in a transmission line.

Integrated Service Digital Network (ISDN)

A type of network which transfers all information from source to destination in a digital form. The network is generally formed using a combination of circuit and packet switched facilities.

Inter Exchange Carrier

1. (IEC) Any common carrier who is licensed by either the FCC or a state utility commission to carry transmissions between "local" telephone areas. Examples, currently, are AT&T Long Lines, MCI, US Sprint etc. 2. (IXC) Same as 1.

Interbuilding Backbone

A backbone cabling system providing communications between more than one building.

Interconnection

A connection scheme that provides for connecting of a cable to another cable or to an equipment cable without utilising patch cords or jumper wires.

Intermediate Cross-connect

The connection point between a backbone cable extending from the Main Cross-connect and the backbone cable extending from the horizontal cross-connect. Sometimes referred to as the Building Distributor.

Intrabuilding Backbone

A backbone cabling system providing communications within a building.

Interference

Noise or other distortion during the transmission of data which may cause errors.

Internetwork

A single logical network formed by connecting two or more dissimilar networks.

Interoperability

The process whereby computational devices can operate interactively with each other across a network without data conversion or human intervention.

Jitter

Temporary effects caused by instability in transmission systems.

Jumper

A cable or wire used to establish a temporary circuit connection.

Laser

Light Amplification by Stimulated Emission of Radiation. A device which emits light at a single frequency with all radiation "in phase". The emitted light may also be referred to as "coherent" light.

Light Emitting Diode (LED)

A solid state device which radiates light at a single frequency. Abbreviated to LED.

Link

A transmission path that includes the cable and connecting hardware. Does not include equipment, work area cables, equipment cables, or patch cables.

Local Area Network (LAN)

An interconnecting network where distances are relatively short, speeds are high and reliability is excellent.

Local Exchange Carrier (LEC)

The local regulated provider of public switched telecommunication services.

Longitudinal Conversion Loss (LCL)

A measure of circuit balance. A measure of the differential voltage induced on a conductor pair as a result of subjecting that pair to longitudinal voltage.

Loose Tube Fibre

An optical fibre cable construction in which the buffer coating of the fibre is loosely placed around the fibre and filled with water blocking gel. Designed for outside plant use.

Loss

Reduction of transmission signal strength.

Main Cross-connect

A connection point between entrance cables, equipment cables, interbuilding backbone cables, and intrabuilding backbone cables. Sometimes referred to as Campus Distributor.

Manchester Encodation

A transmission encodation scheme where binary ones are represented by positive transitions within a time period and binary zeros are represented by negative transitions. This scheme is useful in high speed transmission over short distance and is utilised in DIX Ethernet, IEEE 802.3, and many other baseband LAN implementations.

Medium

Any physical substance which is used for the transmission of signals.

Megabit

One million bits.

Megabyte

One "computer million" (1.048576 million) eight bit bytes.

Megahertz

One million hertz or one million cycles per second.

Mode

A path of light.

Modem

A device which is used to process a digital signal so that it can be transmitted on an analogue transmission line. The word is derived from a contraction of the words modulator and demodulator. Modems may use amplitude, frequency, or phase shift, modulation.

Modular Jack

A female telecommunications interface connector as specified in IEC 603-7 and FCC Part 68 Subpart F.

Modular Plug

A male telecommunications interface connector as specified in IEC 603-7 and FCC Part 68 Subpart F.

Multimedia

Applications that communicate information by more than one means or cabling media.

Multimode Optical Fibre

An optical fibre that allows many bound modes to propagate in the core.

Multiplexing

The combining of two or more communications channels into a common, high-capacity channel from which the original signals may be individually recovered.

Multi-user Telecommunications Outlet Assembly

A grouping in one location of several telecommunications outlet/connectors.

Multi-user Telecommunications Outlet Assembly (MUTOA)

A group of telecommunications outlets located in one housing assembly to provide a common Work Area outlet for up to twelve work areas in open office applications. Work Area equipment cords are routed from the MUTOA directly to the Work Area equipment.

Near End Crosstalk (NEXT)

Unwanted coupling of signals between pairs of twisted pair cables measured at the source (near) end of a transmission link.

Network

An interconnected group of devices utilising a method or architecture, which eliminates the need for having every device directly, connected to every other device.

Network Interface Card (NIC)

A circuit card that is installed in equipment to provide the means to connect the equipment to the network communications channel.

Noise

Portions of a signal in a transmission medium, which are the result of external influences and are NOT part of the original transmission.

Nominal Velocity of Propagation (NVP)

The coefficient used to determine the speed of transmission through a medium relative to the speed of light.

Open Office

An office area with division provided by furniture, movable partitions, or other temporary needs rather than building permanent structural walls.

Optical Fibre

Any glass or plastic fibre that is manufacture for the transmission of light signals.

OSI Model

Seven-layer model developed by the International Organization for Standardization (ISO) to create an open systems networking environment.

Outlet (Telecommunications)

A fixed connecting device where the horizontal cable is terminated and provides an interface to the work area cabling.

Packet

A predefined unit of data, which is moved from source to destination through a specific packet, switched network.

Patch Cord

A length of cable with connectors on both ends, used to join telecommunications links at a cross-connect.

Patch Panel

Connecting hardware that provides a means to connect horizontal or backbone cables to an arrangement of fixed connectors that may be accessed using patch cords or equipment cords to form cross connections or interconnections.

Pathway

The physical vertical and horizontal route of the communications cable in a structured cabling system.

Peripheral Device

Equipment that is connected external to and controlled by a computer. Examples are printers, CD Rom drives, scanners, and modems.

Permanent Link

Cabling and connecting hardware that extends from the horizontal cross connect to the work area outlet. May not exceed 90 metres.

Physical Layer

The layer in a layered network architecture, such as the ISO OSI seven level structure for example, which is responsible for the actual transmission of bits across a medium. Typical specifications include RS 232-C and the physical layer signalling specified in IEEE 802.3. May also be referred to as the physical level.

Plenum

A compartment or chamber to which one or more air ducts are connected and that forms part of the air distribution system.

Power Sum

Used to specify a combination crosstalk from multiple sources. In a four-pair cable, it is a combination of crosstalk from the other three pairs.

Premises Wiring

A generic term that includes interbuilding, intrabuilding, and horizontal cabling that is owned by a single tenant or landlord.

Private Branch Exchange (PBX)

A device that allows private local voice and other voice related services to be switched over a network.

Propagation Delay

The amount of time that passes between when a signal is transmitted and when it is received at the opposite end of the cabling.

Protocol

A set of rules and procedures governing the formatting of messages and the timing of their exchange between devices on a network covering addressing, transmitting, receiving, and verifying.

Pull Strength

The rated strength of a cable and of the force that can be exerted on it during installation.

Raceway

Any enclosed channel designed for housing wires, cables, or busbar.

Receiver (Optical)

An optoelectronic circuit that converts an optical signal to an electrical serial logic signal.

Record

A collection of detailed information related to a specific element of the telecommunications infrastructure.

Redundant Circuits

Transmission paths that are available if the "primary" circuit fails or is otherwise unavailable.

Regional Bell Operating Company (RBOC)

Each of the seven regional based holding companies which were created by the break-up of the AT&T monopoly and are responsible for all local telephone services and operate in a variety of other communications related markets.

Report

A presentation of a collection of information from the various records.

Return Loss

A measure of the signal reflections occurring along a channel or link and is related to various electrical mismatches along the cabling, expressed in dB.

Ring Topology

The network structure whereby connection between devices is accomplished by arranging them in a physical ring. This is the structure used by IBM in its token passing ring implementation of local area network technology.

Router

A device which performs routing functions. Such a device may alter physical, data link and network level protocols to effect interconnection between dissimilar network types.

Service Provider (SP)

A company that provides connection to a part of the Internet, or other services such as application programming interfaces.

Screened Twisted Pair Cabling (ScTP)

A balanced twisted pair cable surrounded by a metallic braid, foil, or both and bound in a single cable sheath.

Shielded Twisted Pair (STP)

A cable surrounded by a metallic braid, foil, or both and bound in a single plastic sheath containing balanced twisted pair conductors that are individually shielded.

Signal to Noise Ratio

The ratio between the detected signal power and noise in a receiver, expressed in dB.

Simplex Transmission

Unidirectional transmission. One direction only.

Single Mode Fibre

A fibre optic transmission medium designed to carry light waves at a single frequency.

Skew

The time delay between any two transmitted signals.

Software

A set of computer instructions stored in computer memory and used to direct the CPU to execute a specific task(s).

Space (Telecommunications)

An area used for housing the installation and termination of telecommunications equipment and cable, e.g., common equipment rooms, equipment rooms, common telecommunications rooms, telecommunications rooms, work areas, and maintenance holes/handholes.

Standard

A collection of requirements that encompasses properties of components and systems that are intended to ensure an accepted degree of functionality and longevity.

Star Topology

The network structure where all devices are connected through a single switching point.

Step Index Optical Fibre

A fibre, which has a constant refractive index at its core but a different refractive index as the outer cladding, is approached. This design minimises losses at the core/cladding interface and is preferred for single mode long distance transmission.

Switching

The process whereby a connection is transferred from one circuit to another by interconnecting the two circuits.

Synchronous Optical Network (Sonet)

A Bellcore optical transmission network operating at T3 speeds.

T1 Carrier

A specialized digital (AT&T) transmission system operating at a total speed of 1.544 Million bits per second using specific time division multiplexing techniques. A T1 carrier can support 24 voice circuits.

T3 Carrier

A specialized digital (AT&T) transmission system operating at a total speed of 44.736 million bits per second using specific time division multiplexing techniques. A T3 carrier can support 672 voice circuits.

Telecommunications

A general term for voice and/or data communication, which is implemented using coded signals over a medium.

Telecommunications Industry Association (TIA)

An organisation that sets standards for cabling, pathways, spaces, grounding, bonding, administration, field testing and other aspects of the telecommunications industry.

Telecommunications Room

An enclosed space for housing telecommunications equipment, cable terminations, and cross-connect cabling used to serve work areas on the same floor. Typical location for the horizontal cross-connect.

Throughput

The amount of data transferred between two points in a given amount of time.

Tight Buffer

A cable construction which provides each optical fibre with a tight buffer of protective thermoplastic coating to a diameter of 900 microns.

Time Domain Reflectometer (TDR)

A device that sends a signal down a cable, and then measures the magnitude and amount of time required for the reflection of that signal to return. Often used to measure the length of cables and to locate faults.

Token Ring

A LAN configuration wherein a physical ring structure is used and device access is controlled by a rotating token.

Topology

The physical arrangement of devices in a network regardless of their logical relationships. Examples are; star, ring, bus.

Transceiver

- 1) In the IEEE 802.3 sense the attachment device which connects the controller interface to the transmission cable. Under IEEE 802.3 this device contains the carrier sense logic, the transmit/receive logic and the collision detect logic.
- 2) Any device which performs a transmission and reception function.

Transients

Short duration transmission signals interruptions.

Transition Point

A location in the horizontal cabling subsystem where flat undercarpet cabling connects to round cabling.

Transmission

The transfer of information from one point to another using one of many physical methods and one of many media.

Transmission Medium

Any material which is used to carry a representation (electrical, optical etc.) of information.

Unshielded Twisted Pair

A twisted pair transmission medium, which has no outer shielding. While this reduces the noise elimination of the conductors it improves the maximum transmission speeds attainable.

Virtual Circuit

A connection, which "appears" and "performs" as if a physical connection exists between source and destination even if one does not.

Virtual Network

A network that is programmed, not hardwired, to meet a customer's specifications. Created on an as-needed basis. May be referred to as Virtual Private Network (VPN).

Wavelength

Length of a sine wave measured from one point on a wave to the corresponding point on the next wave, such as from peak to peak. Wavelength of light is usually measured in nanometers.

Wavelength Division Multiplexing (WDM)

Modulates a series of data streams using a different wavelength of light for each stream and simultaneously transports the multiple wavelengths over a single fibre. Increases the information carrying capacity of fibre optic transmission systems. Also referred to as Dense Wavelength Division Multiplexing (DWDM).

Work Area (WA)

A building space where the occupants interact with telecommunications terminal equipment.

Acronyms

AC	Alternating Current
A-D or A/D	Analogue to Digital conversion
ACR	Attenuation to Crosstalk Ratio
ANSI	American National Standards Institute
ATM	Asynchronous Transfer Mode
AWG	American Wire Gauge
BAS	Building Automation Systems
DSL	Digital Subscriber Line
DTE	Data Terminal Equipment
EIA	Electronics Industry Association
ELFEXT	Equal Level Far End Crosstalk
EMC	Electromagnetic Compatibility
EMI	Electromagnetic Interference
EMT	Electrical Metallic Tubing
ESD	Electrostatic Discharge
FCC	Federal Communications System
FDDI	Fibre Distribution Data Interface
FDM	Frequency Division Multiplexing
FEXT	Far End Crosstalk
FOCIS	Fibre Optic Connector Interface Standard
FOTP	Fibre Optic Test Procedure
GHz	Gigahertz
Gnd	Ground
HVAC	Heating, Ventilation, Air Conditioning
Hz	Hertz
IBCS	Intelligent Building Cabling System
IC	Intermediate Cross Connect
IDC	Insulation Displacement Connector

IEEE	Institute of Electrical and Electronic Engineers
ISDN	Integrated Services Digital Network
ISO	International Organisation for Standardisation
ITU	International Telecommunications Union
LEC	Local Exchange Carrier
LED	Light Emitting Diode
MAC	1) Media Access Control 2) Moves, Adds, and Changes
MC	Main Cross-connect
MHz	Megahertz
MM	Multimode
MUTO	Multi-user Telecommunications Outlet
MUX	Multiplexer
NEXT	Near End Crosstalk
NIC	Network Interface Card
NVP	Nominal Velocity of Propagation
OEM	Original Equipment Manufacturer
OSP	Outside Plant cable
OTDR	Optical Time Delay Reflectometer
PBX	Private Branch Exchange
PCM	Pulse Code Modulation
POP	Point of Presence
PVC	Polyvinyl Chloride
RFI	Radio Frequency Interference
RFQ	Request for Quote
ScTP	Screened Twisted Pair cable
SM	Singlemode
SNR	Signal to Noise Ratio

SONET	Synchronous Optical Network
SP	Service Provider
STP	Shielded Twisted Pair
TBB	Telecommunications Bonding Backbone
TDM	Time Division Multiplexing
TGB	Telecommunications Grounding Busbar
TIA	Telecommunications Industry Association
TMGB	Telecommunications Main Grounding Busbar
TR	Telecommunications Room
UL	Underwriters Laboratory
UPS	Uninterruptible Power Supply
USOC	Universal Service Order Code
VCSEL	Vertical Cavity Surface Emitting Laser
WDM	Wave Division Multiplexing
WP	Waterproof Outlet

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