



# Network Infrastructure

EMEA

**PANDUIT**<sup>™</sup> infrastructure for a connected world



# Welcome to the new 2021 Panduit Network Infrastructure Catalog















With a fresh look, this catalog was designed with our customers in mind – enabling you to more quickly find the Panduit products that meet your needs for Data Center, Enterprise, and Industrial Network environments. For online users, interactive links help you navigate through the catalog. Part number links take you directly to the part number page on [panduit.com](https://www.panduit.com) where you will find more detailed product specifications, drawings, and more.

Check out our Product Showcase section. In this section you'll see some of our recently launched products, engineered to meet today's most complex challenges.

Throughout the catalog you will see a **BEST SELLER** label on select parts. These are the most popular parts in our portfolio and the most often chosen by our customers.

Looking for a part not in this catalog? Visit [panduit.com](https://www.panduit.com) today to view our full line. Panduit continues our commitment to bring innovative, high quality, and industry-leading product to market to meet your most demanding physical infrastructure requirements.



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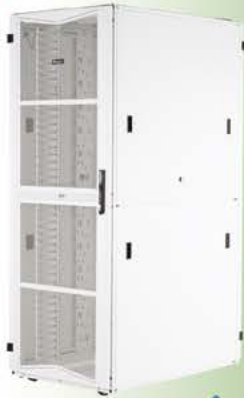
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### Accelerate Deployment with a Flexible Data Center Cabinet Design

The FlexFusion™ Cabinet allows for custom configurations to meet your network needs. FlexFusion™ Cabinets are ideal for network or server equipment and provide maximum flexibility and the capacity to manage high cable density in data center, enterprise or colocation deployment. **G.2 – G.4**



### Category 6A Performance, Category 6 Size

The Vari-MaTriX™ HD Copper Cable's small diameter provides improved fill capacity up to 35% compared to a 0.285 inch diameter copper cable, simplifies network upgrades, and utilizes existing and new infrastructure. **B.2**



### Transforming Communications for Automation Devices

Single Pair Ethernet simplifies the design and deployment of Ethernet physical infrastructure for operational technology devices and applications. **B.10**



## Save Space and Go Further with Active Optical Cable



Active Optical Cable (AOC) Assemblies run significantly further compared to DAC assemblies and because they use fiber, the diameter allows for higher density in pathways. **C.24**

## Smallest Diameter 24 AWG Patch Cord on the Market



The Next-Generation 24 AWG Patch Cord's flexible cable design helps to improve cable management in high density applications enabling easier installations throughout the network. **B.6**



## The Next Generation of LC Patch Cords



The Uniboot Push-Pull Fiber Patch Cord features a unique pull-boot that simplifies insertion/extraction. The unitary cable and low-profile form factor reduce the cable volume density to help optimize your space. **C.27**



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### Enable Higher Density and Higher Speeds



The CS Connector Cassettes and Patch Cords increase the HD Flex™ Platform port density from 144 fibers per RU with LC connectors to 216 fibers per RU with CS connectors, making it the perfect choice for high density. **C.10 – C.27**

### Protect Your Cable-to-Cable Fusion Splice Connections



The HD Fusion Wall Mount Splice Enclosure organizes, manages and protects cable-to-cable fusion splice connections. It accommodates large count fiber optic cables typically coming in from outside of the building transitioning to smaller count cables within the data center. **C.13**

### The Most Advanced Cabinet Access Control Solution in the Market



The SmartZone™ G5 Security Handle is specially designed to meet the most rigorous of security challenges (both digital and physical) in today's data center environment. **H.4**

## TX6A™ Category 6A UTP FieldCord™ Connectors



The FieldCord™ Connectors combine a field-mateable splice, the industry's smallest diameter Category 6A UTP twisted pair 23 AWG cable, and an ultra-compact RJ45 plug to fit into the smallest port spaces and most confined cable routing paths. **B.10**

## Ensure Easy Termination in Your Network



The TX6A™ UTP and STP Field Term Plug's TG-style forward motion termination technology optimizes performance by maintaining cable pair geometry while eliminating conductor untwist. The field term plug is ideal for connecting an increasing number of network-powered devices requiring a plug connection to the network and where field attachment of the plug to cable is desired. **B.8**

## Robust 600 V Rated Construction for Superior Performance



The IndustrialNet™ Overmolded Cordsets ensure high performance and reliable connections under harsh environmental conditions. **D.3**

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### Best-In-Class Form and Function

The SmartZone™ G5 Intelligent PDU provides comprehensive, accurate monitoring of data center power, environment and security to increase uptime and save energy costs. The addition of 415 V PDUs allows for an increase in power capacity and energy savings. **H.2**

### A Versatile Enclosure for Frequently Changing Infrastructures

The Consolidation Point Box provides flexibility to reconfigure cable runs to meet frequently changing organizational requirements and reduces network downtime when these reconfigurations happen. **G.24**

### Low Profile, High Density Storage Solution that Makes a Difference

The PanZone™ TrueEdge™ Enclosure optimizes space and eliminates data and power lag time by mounting servers in confined spaces. **G.24**



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## Assemble Your Network Rack in Minutes

The Adjustable Depth

4 Post Rack combines the stability of a cabinet with the accessibility of an open rack to provide maximum flexibility when designing the network. **G.21 – G.22**



## Efficiently Manage High Performance Copper and Fiber Cable in Your Network

The PatchRunner™ 2 Horizontal Cable Manager provides a comprehensive architecture that regulates access to network equipment, efficiently organizes cables, and ensures continuous coherent performance. **G.19**



## Keep it Smart! Block Unauthorized Access to Your Network

SmartKeeper offers a unique blocking mechanism to prevent unauthorized access to open ports by adding a physical layer to the security system already in place. **B.18**





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A. Product Showcase

### TX6A™ Category 6A Unshielded Copper Cable

- Panduit cables feature a small cable diameter; improves cable fill and simplifies upgrades from Category 6
- Lighter weight cables, smaller bend radius and increased flexibility ease installation
- Best-in-class alien crosstalk mitigation
- Vari-MaTriX™ Cables offer the best EMI immunity in a UTP cable
- Exceptional performance for PoE++ applications

B. Copper Systems

### Vari-MaTriX™ High Density (HD) Category 6A Copper Cable



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PUY6AV04WH-EG

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| Part Number | Flame Rating | EuroClass | Barrier Tape | Cable Diameter, mm | AWG | UL Temperature Range °C | Length, m. |
|-------------|--------------|-----------|--------------|--------------------|-----|-------------------------|------------|
|-------------|--------------|-----------|--------------|--------------------|-----|-------------------------|------------|

#### Category 6A Copper Cable TX6A™ U/UTP

|                                     |        |                |             |     |    |             |     |
|-------------------------------------|--------|----------------|-------------|-----|----|-------------|-----|
| <b>BEST SELLER</b><br>PUL6AV04WH-EG | LSZH-3 | Dca-s2,d2,a1   | Vari-MaTriX | 6.6 | 23 | -20° to 75° | 305 |
| <b>BEST SELLER</b><br>PUY6AV04WH-EG |        | Cca-s1b,d1,a1  |             | 6.7 |    |             |     |
| PUW6AV04WH-EG                       |        | B2ca-s1a,d1,a1 |             |     |    |             |     |
| PUL6ASD04WH-EG                      | LSZH-1 | Dca-s2,d2,a1   | MaTriX      | 6.1 | 26 |             |     |
| PUZ6ASD04WH-EG                      | LSZH-3 | Dca-s2,d2,a1   |             |     |    |             |     |
| <b>BEST SELLER</b><br>PUL6X04WH-HEG | LSZH-1 | Dca-s2,d2,a1   | U/UTP       | 7.2 | 23 | -20° to 60° | 305 |
| <b>BEST SELLER</b><br>PUY6X04WH-HEG |        | Cca-s1a,d1,a1  |             |     |    |             | 500 |
| PUY6X04WH-HED                       |        |                |             |     |    |             |     |

Part number reflects White cable. For other color options, please contact Customer Service.

Panduit™ Copper Cabling Systems utilizing Mini-Com™ Connectivity Components are designed for optimum network performance, design flexibility and reliability to protect network investments well into the future. Each system denoted provides users with headroom assurance that will exceed the applicable category of ANSI/TIA-568.2-D and ISO 11801 standards. Headroom values are based on “real world” conditions through the use of industry recognized hand-held testers. No test analyzers or computer models were used.

#### Channel Headroom

| Electrical Value | Category 6A Shielded | Vari-MaTriX UTP |
|------------------|----------------------|-----------------|
| Insertion Loss   | 3%                   | 3%              |
| NEXT             | 3.5                  | 3.5             |
| PSNEXT           | 5                    | 5               |
| PSACR-F          | 10                   | 10              |
| Return Loss      | 3                    | 3               |
| PSACR-N          | 6.5                  | 6.5             |
| PSANEXT          | 20                   | 4               |
| PSAACR-F         | 20                   | 10              |

## Category 6A Shielded Copper Cable

- Superior performance which exceeds requirements of ANSI/TIA-568.2-D Category 6A, IEEE 802.3an-2006, and ISO 11801 Class E<sub>A</sub> channel standards
- Conductors are 23 AWG with polyethylene (PE) insulation



PUFL6X04WH-HED

| Part Number | Flame Rating | EuroClass | Packaging | Color | AWG | Length, m |
|-------------|--------------|-----------|-----------|-------|-----|-----------|
|-------------|--------------|-----------|-----------|-------|-----|-----------|

### Category 6A U/FTP Copper Cable

|                                      |        |              |      |       |    |     |
|--------------------------------------|--------|--------------|------|-------|----|-----|
| <b>BEST SELLER</b><br>PUFL6X04WH-HED | LSZH-1 | Dca-s2,d2,a1 | Reel | White | 23 | 500 |
| <b>BEST SELLER</b><br>PUFY6X04WH-HED | –      | Cca-s1,d1,a1 |      |       |    |     |

### Category 6A F/UTP and F/FTP Copper Cable

|                                      |        |               |      |       |    |     |
|--------------------------------------|--------|---------------|------|-------|----|-----|
| PFL6X04WH-CEG                        | LSZH-1 | Dca-s2,d2,a1  | Reel | White | 23 | 305 |
| PFY6X04WH-CED                        | –      | Cca-s1a,d1,a1 |      |       |    | 500 |
| PFFL6X04WH-HED                       | LSZH-1 | Dca-s2,d2,a1  |      |       |    |     |
| <b>BEST SELLER</b><br>PFFY6X04WH-HED |        | Cca-s1,d1,a1  |      |       |    |     |

For other color options, please contact Customer Service.

## Category 7 and 7A Shielded Copper Cable

- Certified component performance up to 100 meters and meets or exceeds the component requirement of the IEC 61156-5 Category 7 or 7A standard
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap



PSL7004WH-KD

| Part Number | Flame Rating | EuroClass | Packaging | Color | AWG | Length, m |
|-------------|--------------|-----------|-----------|-------|-----|-----------|
|-------------|--------------|-----------|-----------|-------|-----|-----------|

### Category 7A S/FTP Copper Cable

|                 |        |                |      |       |    |     |
|-----------------|--------|----------------|------|-------|----|-----|
| PSL7A04WH-HED   | LSZH-1 | Dca-s1a,d1,a1  | Reel | White | 23 | 500 |
| PSL7A2204WH-HED |        | B2ca-s1a,d1,a1 |      |       | 22 |     |
| PSL27A2204WH-HD |        |                |      |       |    |     |
| PSW7A04WH-HED   |        |                |      |       |    |     |

### Category 7 S/FTP Copper Cable

|                                     |        |                |      |       |    |     |
|-------------------------------------|--------|----------------|------|-------|----|-----|
| PSL7004WH-HED                       | LSZH-1 | Dca-s1a,d1,a1  | Reel | White | 23 | 500 |
| <b>BEST SELLER</b><br>PSW7004WH-HED |        | B2ca-s1a,d1,a1 |      |       |    |     |

For other color options, please contact Customer Service.

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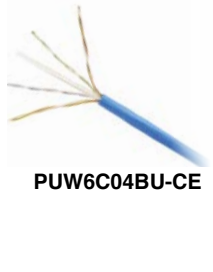


## Category 6 Unshielded Copper Cable

- Reduced diameter and weight for improved cable fill and increased flexibility for ease during installation
- Superior channel headroom performance provides margin above the Industry Standard



| Part Number  | Flame Rating         | EuroClass     | Packaging          | Color | AWG | Length, m |
|--|----------------------|---------------|--------------------|-------|-----|-----------|
| <b>Category 6 U/UTP Copper Cable, Enhanced Performance</b> |                      |               |                    |       |     |           |
| <b>BEST SELLER</b><br>PUL6004WH-FE                         | LSZH-1 and LSZH-3-22 | Dca-s2,d2,a1  | Easy Payout Carton | White | 23  | 305       |
| PUZ6004WH-CEG  | LSZH-3-25            | Dca-s1a,d2,a1 | Reel               |       |     | 305       |
| <b>BEST SELLER</b><br>PUY6004WH-HE                         | LSZH-1               | Cca-s1a,d1,a1 | Easy Payout Carton |       |     | 305       |
| PUY6004WH-HED  |                      |               | Reel               |       |     | 500       |



| Part Number  | Flame Rating         | EuroClass      | Packaging          | Color | AWG | Length, m |
|--|----------------------|----------------|--------------------|-------|-----|-----------|
| <b>Category 6 U/UTP Copper Cable, Standard Performance</b> |                      |                |                    |       |     |           |
| PUL6C04WH-FEQ  | LZSH-1 and LSZH-3-22 | Dca-s2,d2,a2   | Reel               | White | 24  | 610       |
| PUY6C04WH-FE   | N/A                  | Cca-s1a,d0,a1  |                    |       |     | 305       |
| PUW6C04WH-CE   | LSZH-1               | B2ca-s1a,d1,a1 | Easy Payout Carton |       |     | 305       |
| PUW6C04WH-CED  |                      |                | Reel               |       |     | 500       |

For standard colors other than White, please contact Customer Service.

## Category 6 Shielded Copper Cable

- Exceeds ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E channel requirements; Meets ANSI/TIA-568.2-D and ISO 11801 Category 6 component requirements
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap



| Part Number                             | Flame Rating | EuroClass | Shield Type | Packaging | Color | AWG | Length, m |
|---|--------------|-----------|-------------|-----------|-------|-----|-----------|
| <b>Category 6 Shielded Copper Cable</b> |              |           |             |           |       |     |           |
| PFL6004WH-KD                            | LSZH-1       | Eca       | F/UTP       | Reel      | White | 23  | 500       |
| PSFL6004WH-KD                           |              | Eca       | SF/UTP      |           |       |     |           |

For standard colors other than White, please contact Customer Service.

## Category 5e Copper Cable

- Superior channel headroom performance provides margins above the Industry Standard



| Part Number                           | Flame Rating         | EuroClass     | Packaging          | Color | AWG | Length, m |
|---------------------------------------|----------------------|---------------|--------------------|-------|-----|-----------|
| <b>Category 5e U/UTP Copper Cable</b> |                      |               |                    |       |     |           |
| PUL5504WH-EY                          | LSZH-1 and LSZH-3-22 | Dca-s2,d2,a1  | Easy Payout Carton | White | 24  | 305       |
| PUZ5504WH-CEG                         | LSZH-3-25            | Dca-s1a,d2,a1 |                    |       |     |           |

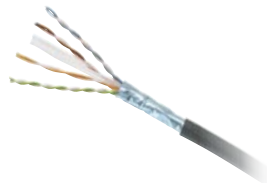


| Part Number                                    | Flame Rating | EuroClass | Packaging | Color | AWG | Length, m |
|--|--------------|-----------|-----------|-------|-----|-----------|
| <b>Category 5e Shielded F/UTP Copper Cable</b> |              |           |           |       |     |           |
| PFL5504WH-KG                                   | LSZH-1       | Eca       | Reel      | White | 24  | 305       |

For standard colors other than White, please contact Customer Service.

## Outdoor (OSP) Copper Cable

- Protects against environmental elements that can cause electrical performance failures
- Gel-filled construction prevents moisture migration in underground and wet applications
- Black in color



PFO6X04BL-CEG

| Part Number   | Performance Level | Flame Rating | EuroClass | Construction, AWG | Packaging | Length, m |
|---------------|-------------------|--------------|-----------|-------------------|-----------|-----------|
| PUO6C04BL-CEG | 6                 | OSP          | Fca       | U/UTP, 24         | Reel      | 305       |
| PUO6C04BL-CEQ | 6                 |              |           |                   |           | 610       |
| PFO6X04BL-CEG | 6A                |              |           | F/UTP, 23         |           | 305       |
| PUO6X04BL-CEG | 6A                |              |           | U/UTP, 23         |           | 305       |
| PSO7004BL-KED | 7                 |              | Eca       | S/FTP, 23         |           | 500       |

Part numbers reflect Black cable. For other color options, please contact Customer Service.

## Multi-Pair Copper Cable



PUL3025WH-A

| Part Number | Flame Rating | EuroClass    | AWG | Packaging | Length, m |
|-------------|--------------|--------------|-----|-----------|-----------|
| PUL3025WH-A | LSZH-1       | Dca-s2,d2,a1 | 24  | Reel      | 305       |

Part number reflects White cable. For other color options, please contact Customer Service.

## Single Pair Ethernet Shielded Copper Cable



SP-SFCS11G-CEG

| Part Number    | Flame Rating | Performance Level                          | Cable Construction | Cable Diameter In. | Packaging | Color              |
|----------------|--------------|--|--------------------|--------------------|-----------|--------------------|
| SP-SFCS11G-CEG | CMR, FT-4    | SP1-1000 Cable Construction<br>10Mb/s, 1km | S/FTP              | 0.268              | Reel      | International Gray |

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### Copper Patch Cords

- Each patch cord is 100% performance tested to component limits
- Patented tangle-free latch on all plugs
- Supports IEEE 802.3af, 802.3at, and 802.3bt type 3 and 4 for PoE applications up to 100 W
- 28 AWG patch cords support up to 96 meters of channel length when using 6m of patch cord; De-rating factor: 1.9
- 26 AWG patch cords support full 100 meter channel length; De-rating factor: 1.5
- 24 AWG patch cords support full 100 meter channel length; De-rating factor: 1.2

### Unshielded Patch Cords



UTP28X^BU

**BEST SELLER**

| Part Number | Performance Level | Cable Type | AWG | Cable Diameter mm | Flammability Rating | Length m# | Color^  |
|-------------|-------------------|------------|-----|-------------------|---------------------|-----------|---|
| UTP28X#M^   | Category 6A       | Unshielded | 28  | 4.7               | CM/LSZH             | 0.5 – 40  | Off White (blank), Black (BL), Blue (BU), Green (GR), Red (RD), Yellow (YL) |
| UTP28SP#M^  | Category 6        |            |     | 3.8               |                     |           |   |
| UTP28CH#M^  | Category 5e       |            |     | 3.8               |                     |           |   |
| UTP6AX#M^   | Category 6A       |            | 24  | 6.4               | CM                  | 1 – 40    |   |
| UTPSP#M^Y   | Category 6        |            |     | 6.0               |                     |           |   |
| UTPSPL#M^Y  |                   |            |     | LSZH              |                     |           |   |
| UTPCH#M^Y   | Category 5e       |            |     | 5.5               | CM                  |           |   |

# = Length in meters. Lengths 0.5 to 10 meters (in 0.5 meter increments), 11 to 20 meters (in 1 meter increments), and 25 to 40 meters (in 5 meter increments).

^ = Color. No suffix designates Off White color. For other colors, suffix: BL (Black), BU (Blue), GR (Green), GY (Gray), OR (Orange), RD (Red), VL (Violet), or YL (Yellow); PK (Pink) is available as cord color option for UTP28SP only.

### Shielded Patch Cords



STP28X^MIG

| Part Number | Performance Level | Cable Type | AWG | Cable Diameter In. (mm) | Flammability Rating | Length m^                      | Color*   |
|-------------|-------------------|------------|-----|-------------------------|---------------------|--------------------------------|--|
| STP28X#M^   | Category 6A       | Shielded   | 28  | 0.185 (4.7)             | CM/LSZH             | 0.2, 0.5, 1, 1.5, 2, 2.5, 3, 5 | International Gray (IG), Black (BL), Blue (BU), Green (GR) |
| STP6X#M^    |                   |            | 26  | 0.248 (6.3)             |                     |                                |  |

# = Length in meters. Lengths 0.5 to 10 meters (in 0.5 meter increments), 11 to 20 meters (in 1 meter increments), and 25 to 40 meters (in 5 meter increments).

^ = Color. No suffix designates Off White color. For other colors, suffix: BL (Black), BU (Blue), GR (Green), GY (Gray), OR (Orange), RD (Red), VL (Violet), or YL (Yellow); PK (Pink) is available as cord color option for UTP28SP only.



**Like what you see... and want more?**

For more Copper Patch Cord options, visit [www.panduit.com/configure-copper-patch-cord](http://www.panduit.com/configure-copper-patch-cord).

### PanZone™ Plug to Plug Cable Assemblies



UZPPBU^

| Part Number | Performance Level | Cable Type | AWG | Cable Diameter In. (mm) | Flammability Rating | Length Ft.^     | Color |
|-------------|-------------------|------------|-----|-------------------------|---------------------|-----------------|-------|
| UZPPBU^     | Category 6A       | Unshielded | 23  | 0.25 (6.4)              | CMP                 | 10, 30, 60, 100 | Blue  |
| SAPPBU^     |                   | Shielded   |     | 0.29 (7.36)             |                     |                 |       |
| UPPBU^      | Category 6        | Unshielded |     | 0.24 (6.09)             |                     |                 |       |

## Mini-Com™ TX6A™ and TX6™ PLUS Unshielded Jack Modules

- All jacks 100% tested to ensure NEXT and return loss performance and individually serialized for traceability
- Mini-Com™ TG-style Jack Modules have EPDs and HPDs to help earn LEED points
- Utilize patented Giga-TX™ Technology for jack terminations which maintain cable pair geometry and minimize conductor untwist

### **BEST SELLER** Best Seller Jack Modules



| Part Number  | Jack Type           | Performance Level | Color*   | Termination Style |
|--------------|---------------------|-------------------|--|-------------------|
| CJ6X88TG*    | Unshielded Standard | Category 6A       | Black (BL), Blue (BU), Electric Ivory (EI), Green (GR), International Gray (IG), Off White (IW), Orange (OR), Red (RD), Violet (VL), White (WH), Yellow (YL) | TG-Style          |
| CJ688TG*     |                     | Category 6        |  |                   |
| CJ6X88TG*-24 |                     | Category 6A       |  |                   |
| CJ688TG*-24  |                     | Category 6        |  |                   |
| CJS6X88TGY   | Shielded Standard   | Category 6A       | Black  |                   |
| CJS688TGY    |                     | Category 6        |  |                   |

-24 indicates 24 pieces per package.

### Other Available Jack Modules



|               |                             |             |  |          |   |
|---------------|-----------------------------|-------------|--|----------|---|
| CJ6X88TG*-24  | Unshielded Standard         | Category 6A | Electric Ivory (EI), Green (GR), International Gray (IG), Off White (IW), Orange (OR), Red (RD), Violet (VL), Yellow (YL)                                    | TG-Style |   |
| CJ688TG*-24   |                             | Category 6  |  |          |   |
| CJ6X88TG*-C   |                             | Category 6A |  |          |   |
| CJ688TG*-C    |                             | Category 6  |  |          |   |
| CJUD6X88TG*   | Unshielded Up/Down          | Category 6A | Black (BL), Blue (BU), Electric Ivory (EI), Green (GR), International Gray (IG), Off White (IW), Orange (OR), Red (RD), Violet (VL), White (WH), Yellow (YL) |          |   |
| CJUD688TG*    |                             | Category 6  |  |          |   |
| CJLR6X88TG*   | Unshielded Left/Right       | Category 6A |  |          |   |
| CJLR688TG*    |                             | Category 6  |  |          |   |
| CJH6X88TG*    | Unshielded Spring Shuttered | Category 6A |  |          |   |
| CJH688TG*     |                             | Category 6  |  |          |   |
| CJS6X88TG*Y   | Shielded Standard           | Category 6A |  |          | Blue (BU), Green (GR), Red (RD), Violet (VL), White (WH), Yellow (YL) |
| CJS688TG*Y    |                             | Category 6  |  |          |   |
| CJS6X88TGY-24 |                             | Category 6A |  |          |   |
| CJS688TGY-24  |                             | Category 6  |  |          |   |

-24 indicates 24 pieces per package or -C indicates 100 pieces per package.

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### Mini-Com™ TX6A™ and TX6™ PLUS Unshielded and Shielded Coupler Modules

B.  
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Systems

- RJ45 8-position female to RJ45 8-position female passthrough module for easy connection of 6 and 8-position RJ45 patch cords
- Also available as 24-port coupler patch panels, see page B.14
- Compatible with Mini-Com™ Modular Patch Panels and Faceplates; not compatible with surface mount box applications

C.  
Fiber  
Systems

D.  
Industrial  
Networks



CC6X88BL

**BEST SELLER** Best Seller Coupler Modules

| Part Number | Type       | Performance Level | Color | Termination Style |
|-------------|------------|-------------------|-------|-------------------|
| CC6X88BL    | Unshielded | Category 6A       | Black | RJ45              |
| CC688BL     |            | Category 6        |       |                   |

E.  
Audio  
Video  
Systems



CC688IW

Other Available Coupler Modules

|           |            |             |  |      |
|-----------|------------|-------------|--|------|
| CC6X88*   | Unshielded | Category 6A | Blue (BU), Green (GR), Off White (IW), Orange (OR) | RJ45 |
| CC688*    |            | Category 6  |  |      |
| CCS6X88BL | Shielded   | Category 6A | Black  |      |

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Mgmt

### TX6A™ Unshielded and Shielded Field Term Plugs

- Simple-to-attach field terminable plugs in straight and angled UTP versions
- 22-26 AWG compatible and re-terminable up to 20 times
- Category 6A performance, also compatible with Category 6 and 5e systems
- Utilizes patented Giga-TX™ Technology for cable terminations which maintain cable pair geometry and minimize conductor untwist

H.  
Power and  
Connectivity  
Management

**BEST SELLER** Best Seller Field Term Plugs



FP6X88MTG FPS6X88MTG

| Part Number | Type                | Performance Level | Color  | Termination Style |
|-------------|---------------------|-------------------|--------|-------------------|
| FP6X88MTG   | Unshielded Straight | Category 6A       | Black  | TG-Style          |
| FPS6X88MTG  | Shielded Straight   |                   | Silver |                   |

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Other Available Field Term Plugs



FPUD6X88MTG

|               |                       |             |        |          |
|---------------|-----------------------|-------------|--------|----------|
| FP6X88MTG-X   | Unshielded Straight   | Category 6A | Black  | TG-Style |
| FPUD6X88MTG   | Unshielded 45° Angled |             |        |          |
| FPUD6X88MTG-X |                       |             |        |          |
| FPS6X88MTG-X  | Shielded Straight     |             | Silver |          |

-X indicates 10 pieces per package.

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## TX6A™ Unshielded and Shielded Field Term Plug Test Cord



FP6X88TC

| Part Number | Cable Type | Conductor Gauge (AWG) | Cable Diameter In. (mm) | Flammability Rating | Length Ft. | Color |
|-------------|------------|-----------------------|-------------------------|---------------------|------------|-------|
| FP6X88TC    | Unshielded | 26                    | 0.24 (6.09)             | CM                  | 3.28       | Red   |

## TX6A™ and TX6™ PLUS Modular Plugs

- Exceed respective ANSI/TIA-568.2-D Category and ISO 11801 Class performance levels when properly terminated
- Patented tangle free latch prevents snags and provides easy release
- Modular plugs include 100 pieces per package



SP6X88-C



SPS6X88-C

| Part Number | Type       | Performance Level | Wire Gauge AWG | Cable Diameter Range In. (mm) | Insulation Diameter Range In. (mm) |
|-------------|------------|-------------------|----------------|-------------------------------|------------------------------------|
| SP6X88-C    | Unshielded | Category 6A       | 23-24          | 0.275–0.315 (6.99–8.00)       | 0.040–0.048 (1.02–1.22)            |
| SP6X88P-C   |            |                   | 24             | 0.260–0.300 (6.60–7.62)       | 0.036–0.042 (0.91–1.07)            |
| SP6X88SD-C  |            |                   | 26             | 0.220–0.250 (5.59–6.35)       | 0.025–0.030 (0.64–0.76)            |
| SP628-C     | Category 6 | Category 6        | 28             | 0.138–0.189 (3.50–4.80)       | Max. 0.027 (0.686)                 |
| SP688-C     |            |                   | 23-24          | 0.225–0.250 (5.72–6.35)       | 0.036–0.042 (0.91–1.07)            |
| SPS6X88-C   | Shielded   | Category 6A       | 23-24          | 0.275–0.300 (6.99–7.62)       | 0.042–0.047 (1.07–1.19)            |
| SPS688-C    |            | Category 6        | 24             | 0.230–0.265 (5.84–6.73)       | 0.036–0.040 (0.91–1.02)            |

## Mini-Com™ TX6A™ and TX6™ PLUS Unshielded Wire Caps



CJLRCAPBU-X

| Part Number | Type                  | Performance Level | Color     | Termination Style |
|-------------|-----------------------|-------------------|-----------|-------------------|
| CJLRCAPBU-X | Unshielded Left/Right | Category 6A       | Blue      | TG-Style          |
| CJLRCAPBU-C |                       |                   |           |                   |
| CJLRCAPIW-X |                       | Category 6        | Off White |                   |
| CJLRCAPIW-C |                       |                   |           |                   |
| CJUDCAPBU-X | Unshielded Up/Down    | Category 6A       | Blue      |                   |
| CJUDCAPBU-C |                       |                   |           |                   |
| CJUDCAPIW-X |                       | Category 6        | Off White |                   |
| CJUDCAPIW-C |                       |                   |           |                   |

-X indicates 10 pieces per package or -C indicates 100 pieces per package.



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### Mini-Com™ TX6A™ and TX6™ PLUS Shielded Wire Caps

B.  
Copper  
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CJSLRCAPBU-X

| Part Number  | Type                | Performance Level | Color     | Termination Style |
|--------------|---------------------|-------------------|-----------|-------------------|
| CJSLRCAPBU-X | Shielded Left/Right | Category 6A       | Blue      | TG-Style          |
| CJSLRCAPIW-X |                     | Category 6        | Off White |                   |
| CJSUDCAPBU-X | Shielded Up/Down    | Category 6A       | Blue      |                   |
| CJSUDCAPIW-X |                     | Category 6        | Off White |                   |

-X indicates 10 pieces per package.

D.  
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E.  
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### Single Pair Ethernet Plug



SP-1LSA22BL

| Part Number | Description   | AWG | Color |
|-------------|---|-----|-------|
| SP-1LSA22BL | Shielded Single Pair Ethernet 2 Wire, 2 Position Plug | 18  | Black |

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### TX6A™ FieldCord™ Connectors

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FC-ICC/P3MBU



FC-ICC/P3MWH



FC-OCC/O5MBL

| Part Number   | Plug Type   | Performance Level | Flammability Rating | Length m | Color |   |       |
|---------------|---|-------------------|---------------------|----------|-------|---|-------|
| FC-ICCP0.5MBU | Unshielded Connector Cord                             | Category 6A       | CMP                 | 0.5      | Blue  |   |       |
| FC-ICCP0.5MWH |   |                   |                     |          | White |   |       |
| FC-ICCP1MBU   |   |                   |                     | 1        | Blue  |   |       |
| FC-ICCP1MWH   |   |                   |                     |          | White |   |       |
| FC-ICC/P3MBU  | Unshielded Connector Cord with Loose Splice Connector |                   |                     | 3        | Blue  |   |       |
| FC-ICC/P3MWH  |   |                   |                     |          | White |   |       |
| FC-OCCO1MBL   | Shielded/Outdoor Connector Cord                       |                   |                     | CMX      | CMX   | 1 | Black |
| FC-OCCO3MBL   |   |                   |                     |          |       | 3 |       |
| FC-OCC/O5MBL  | Shielded Connector Cord with Loose Splice Connector   | 5                 |                     |          |       |   |       |
|               |   |                   |                     |          |       |   |       |

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| Part Number | Type                              | Performance Level | Color  |
|-------------|-----------------------------------|-------------------|--------|
| FC-OSC      | Shielded/Outdoor Splice Connector | Category 6A       | Silver |

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EGJT-1



EGPT



TGJT



MPT5-8AS



CJAST



CWST

| Part Number | Type                                       | Description  | Color  |
|-------------|--|--|--------|
| EGJT-1      | Jack and Field Term Plug Termination Tools | TG Style Termination Tool.   | Green  |
| TGSJT       |  | 45° TG Jack Termination Tool.  | Red    |
| EGPT        |  | Enhanced TG-Style Plug Termination Tool for Straight or Angled Field Term Plugs. | Violet |
| TGJT        |  | Termination Tool for TG Style Copper Jack Modules.                               |        |
| MPT5-8AS    | Loose Piece Plug Termination Tools         | Crimp tool for TX6™ PLUS and Pan-Plug™ Modular Plugs.                            | Black  |
| CSPT        | Loose Piece Plug Termination Tools         | Termination Tool for Panduit Modular Plugs.                                      |        |
| SGPT        |  | Termination Tool for 28 AWG Panduit Modular Plugs.                               | Blue   |
| MDC-C       | Jack Accessories                           | Clear RJ45 Dust Cap.   | Clear  |
| CJSGK-XY    |  | Grounding Kit for Giga-TX™ Style Jack Modules.                                   | -      |
| CJAST       | Cable Prep Tools                           | Copper Cable Stripping Tool.   | Gray   |
| CJASTB      |  | Replacement Blade Kit for CJAST.   | -      |
| CWST        |  | Copper Cable Snipping Tool.  | Green  |

## Break-Away Adapter

- Enables any standard patch cord to “breakaway” upon a sudden pulling force, minimizing tripping hazards to people and potential damage to connected equipment or ports
- Meets all Category 6A requirements (including alien crosstalk) and is acceptable for use with Category 5e, 6 and 6A UTP patch cords



BKA6ASD8INBL

| Part Number  | Cable Type      | AWG | Length In. (Cm) | Flammability Rating | Color | Std. Pkg. Qty. |
|--------------|-----------------|-----|-----------------|---------------------|-------|----------------|
| BKA6ASD8INBL | Category 6A UTP | 26  | 8.0 (20.3)      | CM                  | Black | 1              |

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### Mini-Com™ Modular Patch Panels

- Accept Mini-Com™ Modules, which snap in and out for easy moves, adds and changes
- Angled style facilitate proper bend radius control and minimizes the need for horizontal cable managers
- Front access design includes faceplate with easy snap release feature
- Select panels available in White
- Shielded panels limited to shielded jacks



CPP24FMWBLY



CPP48FMWBLY



CPPL24WBLY



CPPLA48WBLY

| Part Number | Ports | No. of Rack Units | Style | Identification | Color |
|-------------|-------|-------------------|-------|----------------|-------|
|-------------|-------|-------------------|-------|----------------|-------|

#### Flush Mount

| Part Number                        | Ports | No. of Rack Units | Style   | Identification | Color |
|------------------------------------|-------|-------------------|---------|----------------|-------|
| <b>BEST SELLER</b><br>CPP24FMWBLY  | 24    | 1                 | Flat    | Adhesive       | Black |
| CPP24FM6BL                         |       |                   |         |                | White |
| CPP24FMWWH                         |       |                   | Black   |                |       |
| CPPA24FM6BL                        |       |                   | White   |                |       |
| CPPA24FMWWH                        | 48    | 2                 | Angled* |                | Black |
| <b>BEST SELLER</b><br>CPPA24FMWBLY |       |                   | Flat    |                |       |
| <b>BEST SELLER</b><br>CPP48FMWBLY  |       |                   | Angled* |                |       |
| <b>BEST SELLER</b><br>CPP48FM6BL   |       |                   | Flat    |                |       |
| CPPA48FM6BL                        | 72    | 2                 | Angled* | White          |       |
| CPP48FMWWH                         |       |                   | Flat    |                |       |
| CPPA48FMWWH                        |       |                   | Angled* |                |       |
| CPP72FMWBLY                        |       |                   | Flat    |                |       |
| CPPA72FMWBLY                       |       |                   | Angled* | Black          |       |

#### Front Access

| Part Number                       | Ports | No. of Rack Units | Style   | Identification | Color |
|-----------------------------------|-------|-------------------|---------|----------------|-------|
| <b>BEST SELLER</b><br>CPP24WBLY   | 24    | 1                 | Flat    | Adhesive       | Black |
| <b>BEST SELLER</b><br>CPPL24WBLY  |       |                   |         | Label Pocket   |       |
| CPPL24M6BLY                       |       |                   | Angled* |                |       |
| CPPLA24WBLY                       |       |                   |         |                |       |
| CPPL48M6BLY                       | 48    | 2                 | Flat    | Adhesive       |       |
| <b>BEST SELLER</b><br>CPP48WBLY   |       |                   |         | Label Pocket   |       |
| <b>BEST SELLER</b><br>CPPL48WBLY  |       |                   | Angled* |                |       |
| <b>BEST SELLER</b><br>CPPLA48WBLY |       |                   |         |                |       |
| CPP48WBLY                         | Flat  | Adhesive          |         |                |       |

\*Patented design



Mini-Com™ Modular Patch Panels (continued)



CPPA48HDWBLY



CP24BLY



CP48BLY

| Part Number                         | Ports | Rack Units | Style    | Identification | Color |
|-------------------------------------|-------|------------|----------|----------------|-------|
| <b>High Density</b>                 |       |            |          |                |       |
| <b>BEST SELLER</b><br>CPP48HDEWBL   | 48    | 1          | Flat     | Adhesive       | Black |
| <b>BEST SELLER</b><br>CPP48HDVNSWBL |       |            |          | —              |       |
| <b>BEST SELLER</b><br>CPP48HDWBLY   |       |            |          |                |       |
| <b>BEST SELLER</b><br>CPPA48HDWBLY  |       |            | Angled*  | White          |       |
| CPP48HDWWH                          |       |            | Flat     |                |       |
| CPPA48HDVNSWBL                      |       |            | Angled*  |                | Black |
| CPPA48HDWWH                         |       |            |          | White          |       |
| CPPA48HDEWBL                        |       |            | Adhesive | Black          |       |
| <b>All Metal Shielded</b>           |       |            |          |                |       |
| <b>BEST SELLER</b><br>CP24BLY       | 24    | 1          | Flat     | Adhesive       | Black |
| CPA24BLY                            |       |            | Angled*  |                |       |
| CP24WH                              |       |            | Flat     |                | White |
| CPA24WH                             |       |            | Angled*  |                |       |
| <b>BEST SELLER</b><br>CP48BLY       | 48    | 2          | Flat     | Black          |       |
| CP48WH                              |       |            | Angled*  | White          |       |
| CPA48WH                             |       |            |          | Adhesive       |       |
| CPA48BLY                            |       |            | Black    |                |       |
| CP48HDBL                            |       | 1          | Flat     | Black          |       |
| CPA48HDBL                           |       |            | Angled*  |                |       |
| CP48HDBL                            |       |            | Flat     | White          |       |
| CP48HDWH                            |       |            |          |                | Black |
| CPA48HDBL                           |       |            |          | Angled*        |       |
| CPA48HDWH                           |       |            |          |                | White |

\*Patented design

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### Populated UTP Patch Panels

- Includes DP6A™ and DP6™ Panels with 110 punchdown termination and Category 6A and 6 coupler-based panels
- Coupler-based panels provide fast and easy connection of 6 and 8-position RJ45 patch cords

| Part Number   | Ports   | No. of Rack Units | Performance Level | Style      | Identification | Color | Termination Type |          |          |       |             |
|---|---------|-------------------|-------------------|------------|----------------|-------|------------------|----------|----------|-------|-------------|
|  DP246X88BL      | 24      | 1                 | Category 6A       | Flat       | Adhesive       | Black | Coupler          |          |          |       |             |
| CP24688BL   |         |                   | Category 6        |            |                |       |                  |          |          |       |             |
| <b>BEST SELLER</b><br>DP246X88TGY   |         |                   | Category 6A       |            |                |       |                  |          |          |       |             |
| DP246X88TGWH  |         |                   |                   |            |                |       |                  |          |          |       |             |
| DPA246X88TGY  |         |                   |                   |            |                |       |                  |          |          |       |             |
| DPA246X88TGWH   |         |                   |                   |            |                |       |                  |          |          |       |             |
| <b>BEST SELLER</b><br>DP24688TGY  |         |                   |                   | Category 6 |                |       |                  |          |          |       |             |
| DP24688TGWH   |         |                   |                   |            |                |       |                  |          |          |       |             |
| DPA24688TGWH  |         |                   |                   |            |                |       |                  |          |          |       |             |
| DPA24688TGY   |         |                   |                   |            |                |       |                  |          |          |       |             |
| VP24382TV25Y  |         |                   | Category 3        |            |                |       |                  |          |          |       |             |
|  DP48688TGY     |         |                   | 48                |            |                | 2     | Category 6A      | Flat     | Adhesive | Black | RJ21        |
| DP486X88TGWH  | Angled* |                   |                   |            |                |       |                  |          |          |       |             |
| <b>BEST SELLER</b><br>DPA486X88TGY  |         |                   |                   |            |                |       |                  |          |          |       |             |
| DPA486X88TGWH   |         |                   |                   |            |                |       |                  |          |          |       |             |
| <b>BEST SELLER</b><br>DP48688TGY  |         | Category 6        |                   |            |                |       |                  |          |          |       |             |
| <b>BEST SELLER</b><br>DPA48688TGY   |         |                   |                   |            |                |       |                  |          |          |       |             |
| DP48688TGWH   |         |                   |                   |            |                |       |                  |          |          |       |             |
| DPA48688TGWH  |         |                   |                   |            |                |       |                  |          |          |       |             |
|  TPK2A32R88S68 | 32      |                   |                   | 1          | Category 3     |       | Angled*          | Adhesive |          | Black | 68 Pin SCSI |

\*Patented Design.

## Patch Panel Accessories

- Strain relief bars help support cable exiting the back of the panel
- Filler panels cover unused rack space
- Transitional cover for angled panels to help promote proper airflow and cooling
- Select product available in White



SRB19BLY



CPATCBL



CPAF1WH

| Part Number                     | Type               | Style         | Color |
|---------------------------------|--------------------|---------------|-------|
| <b>BEST SELLER</b><br>SRB19BLY  | Strain Relief Bar  | Extended      | Black |
| <b>BEST SELLER</b><br>SRB19D5BL |                    | Deep          |       |
| SRB19D7BL                       |                    |               |       |
| SRB19MDBL                       |                    | Multi-Depth   |       |
| SRBBRKT                         | Mounting Bracket   | Quick Release |       |
| CPATCBL                         | Transitional Cover | Angled        | White |
| CPATCWH                         |                    |               |       |
| CPAF1BLY                        | Filler Panel       | Angled        | Black |
| CPAF2BLY                        |                    |               |       |
| CPAF1WH                         |                    |               | White |
| CPAF2WH                         |                    |               |       |

## Identification Products



MP300/E MP100/E

| Part Number | Description   |
|-------------|---|
| MP300/E     | Includes MP300/E printer, one (1) cassette of S100X150VAM self-laminating labels, rechargeable Li-ion Battery Pack, hard carrying case, AC power adapter, USB cable, magnetic attachments and quick reference card. |
| MP100/E     | Includes MP100/E printer, protective impact bumper, 1 cassette of T100X000VPM-BK continuous vinyl tape, AC power adapter, USB cable, and quick reference card.  |

## Labeling Software

- Powerful, easy-to-use, and affordable software that provides innovative features and functionality to address unique labeling needs
- Quickly create simple or complex labels with text boxes, lines, frames, or tables, and other useful tools
- Design detailed labels with multiple zones and objects for applications such as rating plates, arc flash labels, and fiber optic enclosures
- Simple user interface shows labels on the screen as they will be printed



EMPLUS

| Part Number   | Description  |
|---------------|--|
| EMPLUS-CD     | Easy-Mark Plus™ Labeling Software, CD-ROM.                           |
| EMPLUS-DL     | Easy-Mark Plus™ Labeling Software, online download.                  |
| EMPLUS-2GO    | Easy-Mark Plus™ Portable Application, USB flash drive.               |
| EMPLUS-SERVER | Easy-Mark Plus™ Labeling Software, networkable server based version. |

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### Identification Products (continued)


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#### MP300/E Printer / Label Cassettes

- Fast-loading Label Cassette includes both label material and ribbon to make changing labels easy
- Innovative label design allows labels to rotate for visibility from any angle, and for repositioning on the wire/cable to align legends and improve aesthetics
- Labels can be easily installed on existing terminated wires and assemblies without disconnecting the wires/cables

C.  
Fiber  
Systems

 Polymer Film (V1)

 -40° F to 200° F (-40° C to 93° C)

D.  
Industrial  
Networks



E.  
Audio  
Video  
Systems



| Part Number | Description  | Quantity of Labels per Cassette | Printer Compatibility |       | Print-On Area Color | Width In. | Length In. | Print-On Area Height In. | Min. Cable O.D. In. | Max. Cable O.D. In. | Wire/Cable Size Range   |
|-------------|--|---------------------------------|-----------------------|-------|---------------------|-----------|------------|--------------------------|---------------------|---------------------|---|
|             |  |                                 | MP100                 | MP300 |                     |           |            |                          |                     |                     |   |
| R100X150V1M |  | 100                             |                       |       |                     |           | 1.5        | 0.5                      | 0.22                | 0.28                | 10 – 6 AWG wire/cable, Category 5e/6/6A UTP and Category 5e FTP cable |
| R100X225V1M | MP Cassette, Turn-Tell Self-Laminating Label, Vinyl. | 75                              | N                     | Y     | Black on White      | 1         | 2.25       | 0.75                     | 0.28                | 0.39                | 8– 4 AWG wire/cable, Category 6 FTP and Category 6A cable             |
| S100X150VAM |  | 175                             |                       |       |                     |           | 1.5        | 0.5                      | 0.16                | 0.32                | Category 5e, Category 6   |
| S100X225VAM |  | 125                             |                       |       |                     |           | 2.25       | 0.75                     | 0.24                | 0.48                | 8 - 4 AWG   |

F.  
Keystone  
Cabling  
Systems



G.  
Cabinets,  
Thermal  
Mgmt, Racks,  
Enclosures  
& Cable  
Mgmt

| Part Number | Description                           | Quantity of Labels per Cassette | Printer Compatibility |       | Print-On Area Color | Width |      | Length |     |
|-------------|---------------------------------------|---------------------------------|-----------------------|-------|---------------------|-------|------|--------|-----|
|             |                                       |                                 | MP100                 | MP300 |                     | In.   | In.  | In.    | In. |
| C195X040Y1M | MP Cassette, Comp Label, Non-Ahdesive | 125                             |                       |       |                     | 1.95  | 0.4  |        |     |
| C261X035Y1M | Polyester.                            | 100                             | N                     | Y     | Black on White      | 2.61  | 0.35 |        |     |

H.  
Power and  
Connectivity  
Management



| Part Number    | Description                          | Printer Compatibility |       | Color          | Width |    | Length |   |
|----------------|--------------------------------------|-----------------------|-------|----------------|-------|----|--------|---|
|                |                                      | MP100                 | MP300 |                | In.   | mm | Ft.    | m |
| T038X000VPM-BK | MP Cassette, Continuous Tape, Vinyl. | Y                     | Y     | Black on White | 0.354 | 9  | 23     | 7 |
| T100X000VPM-BK |                                      |                       |       |                | 0.945 | 24 |        |   |

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### PanTher™ Hand-Held Label Printing System

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LS8EQ-KIT-ACE

| Part Number                         | Description   | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------------------------------|---|----------------|----------------|
| <b>BEST SELLER</b><br>LS8EQ-KIT-ACE | PanTher™ Hand-Held Label Printing System in kit. Includes LS8EQ Hand-Held Thermal Transfer Printer with QWERTY keypad kit, the LS8E-ACE 100–240 VAC power adapter for Europe along with the hand-held printer, PANTHERLINK software, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, the LS8-CASE rigid carrying case, the LS8-PCKIT USB cable and PC interface software, the LS8-IB protective impact bumper, the LS8-WS wrist strap, a quick reference card, and an operator's manual. | 1              | 2              |
| C252X030FJC                         | Modular patch panel (CP) adhesive label cassette.   | 1              | 10             |
| S100X150VAC                         | P1 cassette, self-laminating label, vinyl, 1.00" W x 1.50" H, 0.50" POA, Clear/White.   | 1              | 10             |
| R100X150V1C                         | Turn-Tell™ Patch Cord Label Cassette.   | 1              | 10             |

### Laser/Ink Jet Labels



| Part Number                       | Print-On Area Color | Width In. | Length In. | Print-On Area Height In. | Min. Cable O.D. In. | Max. Cable O.D. In. | Wire Range  | Labels Per Row | Labels Per Sheet |
|-----------------------------------|---------------------|-----------|------------|--------------------------|---------------------|---------------------|---|----------------|------------------|
| R100X150X1J                       | White               | 1         | 1.5        | 0.5                      | 0.22                | 0.28                | Category 5e UTP, Category 6 UTP, Category 6A UTP, Category 5e FTP, 10 – 6 AWG | 6              | 24               |
| R100X225X1J                       |                     |           | 2.25       | 0.75                     | 0.28                | 0.39                | Category 6 FTP, Category 6A UTP, Category 6A FTP, 8 - 4 AWG                   |                | 18               |
| <b>BEST SELLER</b><br>S100X150YAJ |                     |           | 1.5        | 0.5                      | 0.16                | 0.32                | Category 5e UTP, Category 6 UTP, Category 6A UTP, Category 5e FTP, 10 – 6 AWG | 7              | 42               |
| <b>BEST SELLER</b><br>S100X225YAJ |                     |           | 2.25       | 0.75                     | 0.24                | 0.48                | Category 6 FTP, Category 6A UTP, Category 6A FTP, 8 - 4 AWG                   | 8              | 32               |

### TDP Printer / Labels



| Part Number                         | Description  |
|-------------------------------------|--|
| <b>BEST SELLER</b><br>TDP43ME/E-KIT | 300 dpi printer; kit includes printer, Panduit™ Easy-Mark Plus™ Labeling Software, RMEH4BL hybrid black ribbon, an AC power adapter with EuroPlug cord, a USB cable, a user manual, a quick start card, a TDP43ME-CASE, a driver disk, and one roll of S100X150VATY labels.. |



| Part Number                        | Print-On Area Color | Width In. | Length In. | Print-On Area Height In. | Min. Cable O.D. In. | Max. Cable O.D. In. | Wire Range  | Labels Per Row |
|------------------------------------|---------------------|-----------|------------|--------------------------|---------------------|---------------------|---|----------------|
| <b>BEST SELLER</b><br>R100X150V1T  | White               | 1         | 1.5        | 0.5                      | 0.22                | 0.28                | Category 5e UTP, Category 6 UTP, Category 6A UTP                              | 4              |
| R100X225V1T                        |                     |           | 2.25       | 0.75                     | 0.28                | 0.39                | Category 6 FTP, Category 6A UTP, Category 6A FTP, 8 – 4 AWG                   |                |
| <b>BEST SELLER</b><br>S100X150VATY |                     |           | 1.5        | 0.5                      | 0.16                | 0.32                | Category 5e UTP, Category 6 UTP, Category 6A UTP, Category 5e FTP, 10 – 6 AWG |                |
| <b>BEST SELLER</b><br>S100X225VATY |                     |           | 2.25       | 0.75                     | 0.24                | 0.48                | Category 6 FTP, Category 6A UTP, Category 6A FTP, 8 – 4 AWG                   |                |

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### SmartKeeper Security Devices

- Panduit SmartKeeper Blockout Devices protect connections from unauthorized access, dust and debris or damage caused by foreign objects
- Mount flush with the opening and do not interfere with adjoining connections
- Accommodate a variety of applications where RJ45 connections are present
- Unique mechanism can only be unlocked with the special master key



SKRJ45RD-X



SKUSBA-V



SKUSBC



SKMKEY

| Part Number | Description                            | Color | Type  | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|--|-------|-------|----------------|----------------|
| SKRJ45RD-X  | SmartKeeper RJ45 Blockout Device       | Red   | Flush | 1              | 10             |
| SKUSBA-V    | SmartKeeper USB Type A Blockout Device |       |       | 1              | 5              |
| SKUSBC      | Smartkeeper USB Type C blockout device |       |       | 1              | 1              |
| SKMKEY      | SmartKeeper Master Key                 | —     |       | 1              | 1              |

### RJ45 Plug Lock-In Device

- Blocks unauthorized removal of patch cord, VoIP phone, other networking equipment or critical connection
- Compact design does not interfere with adjacent jack modules, including high density applications
- Requires key to lock and unlock
- Locking mechanism is White for standard and clear for recessed devices



PSL-DCPLE-BL



PSL-DCPLRE-C

| Part Number   | Type     | Color | Number of Keys |
|---------------|----------|-------|----------------|
| PSL-DCPLE     | Standard | Red   | 1              |
| PSL-DCPLE-BL  |          | Black |                |
| PSL-DCPLE-C   |          | Red   | 5              |
| PSL-DCPLRE    | Recessed | Red   | 1              |
| PSL-DCPLRE-BL |          | Black |                |
| PSL-DCPLRE-C  |          | Red   | 5              |



### RJ45 Jack Blockout Device

- Saves time and money by blocking unauthorized access and protecting jacks from foreign objects
- Compatible with most RJ45 jacks and does not interfere with jack contacts
- Does not interfere with adjacent jacks or hardware
- Requires key to remove



PSL-DCJB-BU

| Part Number | Type | Color | Number of Keys |
|-------------|------|-------|----------------|
| PSL-DCJB    | RJ45 | Red   | 1              |
| PSL-DCJB-BL |      | Black |                |
| PSL-DCJB-BU |      | Blue  |                |
| PSL-DCJB-C  |      | Red   | 5              |

### Patch Cord Color Bands

- Removable band snaps on and off individual cables allowing the same patch cord to be used for different applications
- Can be installed next to each other allowing multiple color bands to be used on one cable, offering endless color coding options
- Internal grooves secure color bands in place on cable providing easy identification at the connection
- Available in ten standard colors that match Panduit connectivity and provide an aesthetically pleasing solution
- Compatible with all Panduit patch cords including 28 AWG patch cords
- Existing and new installations can be color-coded as networks change



PCBANDBU-Q



PCBANDRD-Q



PCBANDIG-Q

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

Patch cords available on page B.6.

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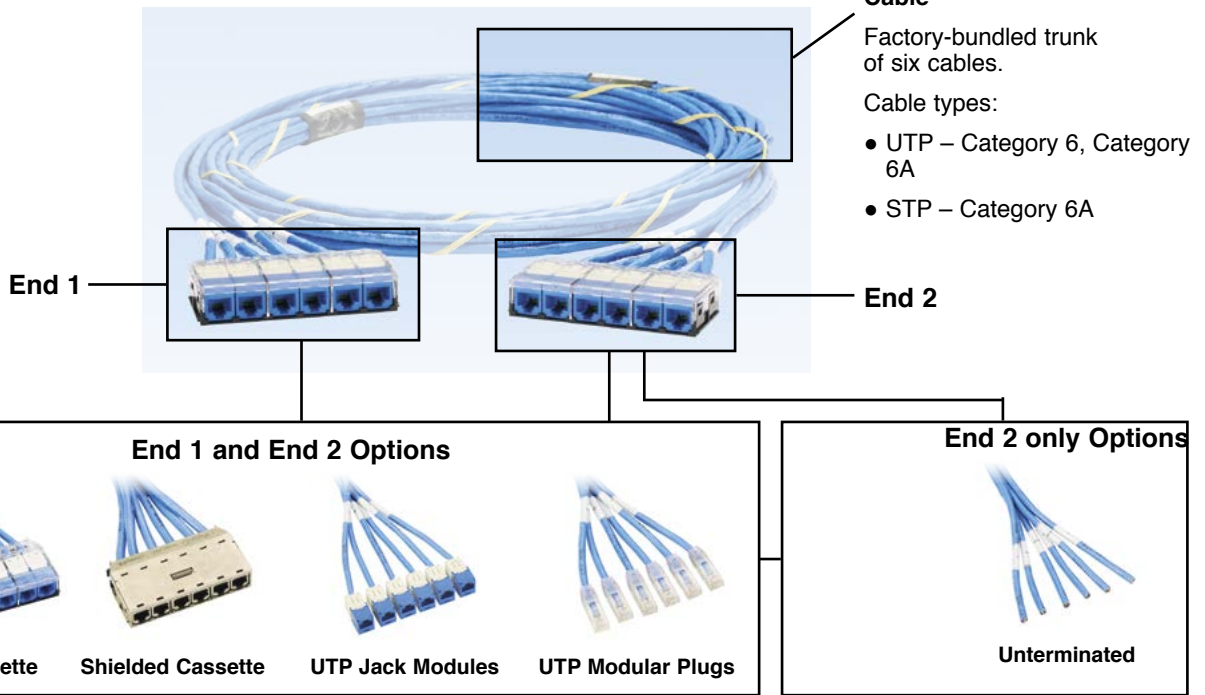
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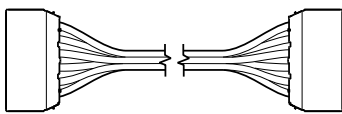
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### QuickNet™ Cable Assembly Components

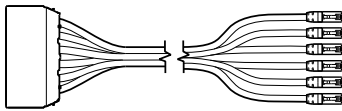


### Common QuickNet™ Cable Assembly Configurations



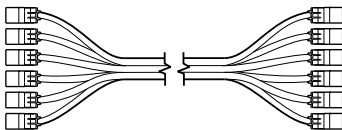
#### Cassette to Cassette

- Cassette of six jack modules on both ends of assembly
- Typically used in cabinet-to-cabinet permanent link trunks
- Installs into QuickNet™ Patch Panels on both ends in common interconnect and cross connect architectures, with cassette enabling quick installation into panels
- The most common QuickNet™ Configuration for permanent link trunks
- QuickNet™ Standard Parts for the Americas: UTP cassette-cassette, blue cable, blue jack modules



#### Cassette to Plug

- Similar configuration as above, but with six loose modular plugs
- Typically used for in-cabinet or cabinet-to-cabinet equipment cord harnesses
- Installs into QuickNet™ Patch Panels on one end and switch ports on the other for switch port replication applications



#### Jack to Jack

- Six loose jack modules on both ends of assembly
- Typically used in cabinet-to-cabinet permanent link trunks
- Installs into Mini-Com™ Modular Patch Panels (or QuickNet™ Patch Panels with panel adapters) on both ends in common interconnect and cross connect architectures
- Compatible with PViQ™ and PanView™ Intelligent Modular Patching Systems



**Like what you see...  
and want more?**

For more QuickNet™ Trunk options, visit  
[www.panduit.com/configure-copper-trunk](http://www.panduit.com/configure-copper-trunk).

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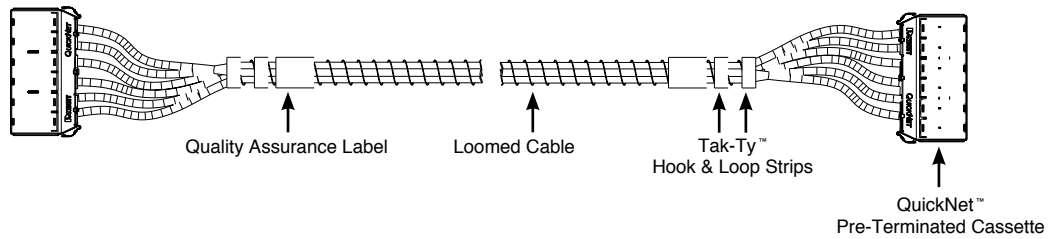
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### QuickNet™ Trunks



**Like what you see...and want more?**  
 For more QuickNet™ Trunk options, visit [www.panduit.com/configure-copper-trunk](http://www.panduit.com/configure-copper-trunk).

### Direct Attach Passive Cable Assemblies

- Ideal for Top of Rack (ToR) switch to server applications
- Passive connection provides a low cost, short reach interconnect option without additional power requirements
- 100% performance tested
- Low profile latching mechanism in connector allows assemblies to be installed side by side or stacked on top of each other providing maximum port density in high-density installations
- Small diameter cable design enables superior cable management and improved air flow
- Robust strain relief boot provides proper bend radius control for consistent reliability
- Variety of standard lengths allow more precise deployment, improved cable management and cost efficiencies

#### SFP+ 10 Gb/s Assemblies

Constructed with high-speed, 2-pair, twinaxial cable, factory terminated to SFP+ 10 Gb/s hot pluggable modular connectors



| Part Number   | AWG | Color | Length m |
|---------------|-----|-------|----------|
| PSF1PZA1MBL   | 30  | Black | 1        |
| PSF1PZA1.5MBL |     |       | 1.5      |
| PSF1PZA2.5MBL |     |       | 2.5      |
| PSF1PZA3MBL   |     |       | 3        |
| PSF1PZC3.5MBL |     |       | 3.5      |
| PSF1PZC4MBL   | 26  | Black | 4        |
| PSF1PZC5MBL   |     |       | 5        |

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#### SFP28 25 Gb/s Assemblies

Constructed with high-speed, 2-pair, twinaxial cable, factory terminated to SFP28 25 Gb/s hot pluggable modular connectors



| Part Number   | AWG | Color | Length m |
|---------------|-----|-------|----------|
| PSF2PZA1MBL   | 30  | Black | 1        |
| PSF2PZA1.5MBL |     |       | 1.5      |
| PSF2PZA2MBL   |     |       | 2        |
| PSF2PZA2.5MBL |     |       | 2.5      |
| PSF2PZA3MBL   |     |       | 3        |
| PSF2PZC3.5MBL |     |       | 3.5      |
| PSF2PZC4MBL   | 26  |       | 4        |
| PSF2PZC5MBL   |     |       | 5        |

#### QSFP28 100Gb/s Assemblies

Constructed with high-speed, 4-pair, twinaxial cable, factory terminated to QSFP28 100 Gb/s hot pluggable modular connectors



| Part Number  | AWG | Color | Length m |
|--------------|-----|-------|----------|
| PQSF2PXA1MBL | 30  | Black | 1        |
| PQSF2PXA2MBL |     |       | 2        |
| PQSF2PXA3MBL |     |       | 3        |
| PQSF2PXC4MBL | 26  |       | 4        |
| PQSF2PXC5MBL |     |       | 5        |

#### QSFP28 to SFP28 Breakout Assemblies

Constructed with high-speed, 4-pair, twinaxial cable, factory terminated to QSFP28 100 Gb/s and 4x25 Gb/s SFP28 hot pluggable modular connectors



| Part Number   | AWG | Color | Length m |
|---------------|-----|-------|----------|
| PHQ4SFP2A1MBL | 30  | Black | 1        |
| PHQ4SFP2A2MBL |     |       | 2        |
| PHQ4SFP2A3MBL |     |       | 3        |
| PHQ4SFP2C4MBL | 26  |       | 4        |
| PHQ4SFP2C5MBL |     |       | 5        |

## QuickNet™ Patch Panels and Accessories

- Accept QuickNet™ Copper Cable Assemblies and QuickNet™ SFQ Series MTP Fiber Optic Cassettes which snap in and out with one hand
- High-density patch panels conserve valuable rack space
- Angled patch panels facilitate proper bend radius control and minimize the need for horizontal cable managers
- All metal patch panels accept shielded cassettes, no additional grounding kit required
- Pre-printed numbers above each port for easy identification
- Mount to standard EIA 19" racks or 23" racks with optional extender brackets



QPP24BL



QPP48HDBL



QAPP24BL



QAPP48HDBL



QSP24BL



QASP24BL



QASP48HDBL



QPPABL



QPPBBL

| Part Number | Ports | No. of Rack Spaces | Style |
|-------------|-------|--------------------|-------|
|-------------|-------|--------------------|-------|

### QuickNet™ Unshielded Patch Panels

|            |    |   |         |
|------------|----|---|---------|
| QPP24**    | 24 | 1 | Flat    |
| QPP48HD**  | 48 |   |         |
| QAPP24**   | 24 |   | Angled* |
| QAPP48HD** | 48 |   |         |

### QuickNet™ Shielded Patch Panels

|            |    |   |         |
|------------|----|---|---------|
| QSP24**    | 24 | 1 | Flat    |
| QSP48HD**  | 48 |   |         |
| QASP24**   | 24 |   | Angled* |
| QASP48HD** | 48 |   |         |

\*\*Colors available: Black (BL), White (WH).  
\*Patented Design

### QuickNet™ Accessories

| Part Number | Description  |
|-------------|--|
| QPPABL      | QuickNet™ Patch Panel Adapter which accepts Mini-Com™ Modules for UTP, fiber optic, and audio/visual applications. |
| QPPBBL      | QuickNet™ Patch Panel Blank reserves space for future use and promotes proper airflow and cooling.                 |

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### Mini-Com™ Faceplates



CFPUKS2SAWY



CFP86S4IWY



CM6CSSAW-X



CM6CESSAW-X



CFPE3AWY

| Part Number              | Description  | Std. Pkg. Qty. | Std. Ctn. Qty. |
|--------------------------|--|----------------|----------------|
| <b>UK Faceplates</b>     |  |                |                |
| CFPUKS2SAWY              | 86mm x 86mm single gang faceplate frame and one 1/2-size sloped shuttered module insert.   | 1              | 10             |
| CFPUKS4SAW-2GY           | 86mm x 146mm double gang faceplate frame and two 1/2-sized sloped shuttered module inserts.  | 1              | 10             |
| CFPL86F2SAW              | 86mm x 86mm single gang shuttered faceplate with label and icon slots. Accepts up to two Mini-Com™ Modules. A two-piece design conceals the two M4.0-0.7x25mm panhead mounting screws.                                 | 1              | 10             |
| CFPL86F4SAW              | Mini Com 86mm x 86mm flat shuttered faceplate, accepts four Mini-Com™ Modules. Includes two M4.0-0.7x25mm panhead mounting screws.   | 1              | 10             |
| CFPUKS2BAWY              | 86mm x 86mm single gang faceplate holds up to two Mini-Com™ Modules. Supplied with CMB blank module.   | 1              | 10             |
| CFP86S4IWY               | Mini Com™ 86mm x 86mm sloped faceplate, accepts four Mini-Com™ modules, includes screw covers.   | 1              | 10             |
| CFP86S2IWY               | 86mm x 86mm faceplate accepts two Mini-Com™ Modules. The faceplate has a sloped design to improve bend radius and screw covers to conceal the mounting screws. The faceplate can be identified with an adhesive label. | 1              | 10             |
| <b>UK Adapters</b>       |  |                |                |
| CM6CSAW-X                | Shuttered module snaps into standard UK LJU6C floor box mounting plates, faceplates and patch panels. Holds one Mini-Com™ Module. Compatible with standard UK LJU6C openings with 22.3mm x 36.9mm dimensions.          | 10             | 50             |
| CM6CSSAW-X               | Sloped shuttered module snaps into standard UK LJU6C floor box mounting plates, faceplates and patch panels. Holds one Mini-Com™ Module. Compatible with standard UK LJU6C openings with 22.3mm x 36.9mm dimensions.   | 10             | 50             |
| CM6CESAW-X               | Shuttered Euro-mod adapter accepts one Mini-Com™ Module (25mm x 50mm).   | 10             | 50             |
| CM6CESSAW-X              | Sloped shuttered Euro-mod adapter accepts one Mini-Com™ Module (25mm x 50mm).  | 10             | 50             |
| <b>German Faceplates</b> |  |                |                |
| CFPE3AWY                 | 80mm x 80mm faceplate frame and one 55mm x 55mm sloped faceplate accepts up to three Mini-Com™ Modules. Supplied with mounting screws, metal mounting plate, label and label cover.                                    | 1              | 10             |
| CHES2AWY                 | Mini-Com™ 50mm x 50mm sloped faceplate, accepts two Mini-Com™ modules, includes mounting screws, metal mounting plate, label and label cover.  | 1              | 10             |
| CHES3AWY                 | 55mm x 55mm sloped faceplate holds up to three Mini-Com™ Modules. Supplied with mounting screws, metal mounting plate, label and label cover.  | 1              | 10             |
| FCFPAW                   | 80mm x 80mm faceplate frame accepts all Panduit 50mm x 50mm adapters and the CHES3AWY adapter.   | 1              | 10             |

Mini-Com™ Faceplates (continued)

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|---------------------------|---|----------------|----------------|
| <b>French Faceplates</b>  |   |                |                |
| CFPFF2AW                  | 45mm x 45mm adapter with one 1/2-size flat module insert accepts two Mini-Com™ Modules.   | 1              | 10             |
| CFPFS2AW                  | 45mm x 45mm adapter with one 1/2-size sloped module insert accepts two Mini-Com™ Modules.   | 1              | 10             |
| CFPFS1SAW                 | 45mm x 45mm adapter with one 1/2-size sloped shuttered insert. Accepts one Mini-Com™ Module.  | 1              | 10             |
| CFPFS2SAW                 | 45mm x 45mm adapter with one 1/2-size sloped shuttered module insert accepts up to two Mini-Com™ Modules.   | 1              | 10             |
| CFPFLS1SAW                | 45mm x 45mm adapter with one-port sloped shuttered module with labels and icon slots. Accepts a single Mini-Com™ Module.                            | 1              | 10             |
| CFPFLS2SAW                | 45mm x 45mm adapter with two-port sloped shuttered module with labels and icon slots. Accepts up to two Mini-Com™ Modules.                          | 1              | 10             |
| CFP45LS2SAW               | 45mm x 45mm adapter with one 1/2-size sloped shuttered module insert with label and label cover. Accepts up to two Mini-Com™ Modules.               | 1              | 10             |
| <b>French Adapter</b>     |   |                |                |
| CFA1FSAW-X                | Accepts a single Mini-Com™ Module, 22.5mm x 45mm shuttered adapter.   | 10             | 50             |
| <b>Italian Faceplates</b> |   |                |                |
| CFPH2IW                   | Single gang horizontal faceplate accepts two Mini-Com™ Modules.   | 1              | 10             |
| CFP4IW                    | Single gang horizontal faceplate accepts four Mini-Com™ Modules.  | 1              | 10             |
| CFPHSL4IW                 | Single gang sloped horizontal faceplate accepts four Mini-Com™ Modules. Includes label and label cover.   | 1              | 10             |
| <b>Italian Adapters</b>   |   |                |                |
| CBTA1BL-X                 | Adapter accepts one Mini-Com™ Module for Bticino** Living International series faceplates.  | 10             | 50             |
| <b>Denmark Faceplates</b> |   |                |                |
| CFD66S2SEW                | Mini-Com™ 2-position Sloped Shuttered OPUS 66^^ Adapter holds up to two Mini-Com™ Modules. Compatible with in-wall and surface mount installations. | 1              | 10             |



CFPFF2AW



CFPFS1SAW



CFPFLS1SAW



CFP4IW



CBTAL1BL-X

\*Playbus is a trademark of Gewiss S.p.

\*\*Living International and Light are trademarks of Bticino S.p.A.

^Clic'Line is a trademark of Schneider Electric.

^^OPUS 66 is a trademark of Schneider Electric.



Mini-Com™ Blank Modules

- Occupies unused ports for future use



CMBBL-X

| Part Number                   | Description  | Color     |
|-------------------------------|--|-----------|
| <b>BEST SELLER</b><br>CMBBL-X | Reserves a one module space for future use in Mini-Com™ Patch Panels, Faceplates, and Surface Mount Boxes. | Black     |
| <b>BEST SELLER</b><br>CMBWH-X |  | White     |
| CMBIW-X                       |  | Off White |



A.  
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### Mini-Com™ Surface Mount Boxes

- Accept Mini-Com™ Modules for STP and UTP, fiber optic, and audio/video
- Replacement label/label covers available where applicable
- Mount easily with supplied mounting screws, adhesive tape or optional magnet
- Multimedia boxes include built-in fiber spool
- For shuttered applications use shuttered jacks



CBXQ1AW-A



CBXQ2AW-A



CBXQ4AW-A



CBXQ6IW-A

| Part Number | Description  | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|--|----------------|----------------|
| CBXQ1**-A   | Mini-Com™ Surface Mount Box accepts one Mini-Com™ Module. Includes quick release cover, cable ties and adhesive backing.                                     | 1              | 10             |
| CBXQ2**-A   | Mini-Com™ Surface Mount Box accepts two Mini-Com™ Modules. Includes quick release cover. Supplied with cable ties, adhesive backing, label and label cover.  | 1              | 10             |
| CBXQ4**-A   | Mini-Com™ Surface Mount Box accepts four Mini-Com™ Modules. Includes quick release cover. Supplied with cable ties, adhesive backing, label and label cover. | 1              | 10             |
| CBXQ6**-A   | Mini-Com™ Surface Mount Box accepts six Mini-Com™ Modules. Includes quick release cover. Supplied with cable ties, adhesive backing, label and label cover.  | 1              | 10             |

Additional colors available. Contact Panduit Customer Service or check [www.panduit.com](http://www.panduit.com) for additional information.

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### Above Floor Raceways



AFR4BCBL6

| Part Number | Description   | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|---|----------------|----------------|
| AFR4BCBL6   | Six foot above floor raceway base and cover, Black.                             | 1              | —              |
| AFR4JB2SBL  | Above floor raceway, power rated two-piece snap together junction box, Black.   | 1              | 10             |
| AFR4TRT70BL | Above floor raceway, transition fitting from above floor raceway to T70, Black. | 1              | 10             |
| AFR4RABL    | Above floor raceway, right angle fitting, Black.                                | 1              | 10             |
| AFR4CCBL    | Above floor raceway, coupler fitting, Black.                                    | 1              | 10             |
| AFR4ECBL    | Above floor raceway, end cap fitting, Black.                                    | 1              | 10             |

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### OptiCam™ LC Fiber Optic Connectors- Pre-Polished Cam Termination

- TIA/EIA-604 FOCIS-10 compliant connectors
- Exceed ANSI/TIA-568.3-D requirements
- Connector backbone and boot colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Insertion loss: 0.3 dB average (multimode and singlemode)
- Return loss: >26 dB (multimode), >20 dB (multimode), >50 dB (singlemode)
- Quick installation; provide field termination in less than half the time of the field polish connectors
- Patented re-termination capability provide yield rates approaching 100%
- Factory pre-polished fiber end face eliminates time-consuming field polishing to reduce installation costs, labor, scrap and the number of tools required
- Cam activated fiber and buffer clamp mechanisms provide superior fiber and buffer retention- less sensitivity to fiber tensile loading
- OptiCam™ 2 Termination Tool simplifies tooling and termination, and virtually eliminates operator error by providing calculated insertion loss after the cam step has been completed
- Fiber cable size: accepts 900µm tight buffered fiber with included boot(s); accepts 1.6mm-2.0mm and 3.0mm jacketed cable with available OptiCam™ Cable Retention Boot Assemblies
- Ferrule type: 1.25mm zirconia ceramic (highest durability for repeated matings) to meet a variety of application requirements
- Use OptiCam™ 2 Termination Kit (FOCTT2-KIT; FOCTT2-BKIT2; FOCTT2-PKIT2)



FLCDMCXAQY



FLCSSCBUY

| Part Number                      | Cable Type | Connector Variant | Fiber Type  | Cable Color    |      |
|----------------------------------|------------|-------------------|-------------|----------------|------|
| <b>BEST SELLER</b><br>FLCDMCXAQY | Duplex     | Multimode         | OM3/OM4/OM5 | Aqua           |      |
| FLCDSCBUY                        |            | Singlemode        | OS1/OS2     | Blue           |      |
| FLCSCM5BLY                       | Simplex    | Multimode         | OM2         | Black          |      |
| FLCSCM6E1Y                       |            |                   | OM1         | Electric Ivory |      |
| <b>BEST SELLER</b><br>FLCSMCXAQY |            | Singlemode        |             | OM3/OM4/OM5    | Aqua |
| <b>BEST SELLER</b><br>FLCSSCBUY  |            |                   |             | OS1/OS2        | Blue |

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## OptiCam™ SC/ST Fiber Optic Connectors- Pre-Polished Cam Termination

- TIA/EIA-604 FOCIS-3 (SC) and FOCIS-2 (ST) compliant connectors
- Exceed ANSI/TIA-568.3-D requirements
- Connector boot colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Insertion loss: 0.3 dB average (multimode and singlemode)
- Return loss: >26 dB (multimode), >20 dB (multimode), >50 dB (singlemode)
- Quick installation; provide field termination in less than half the time of the field polish connectors
- Patented re-termination capability provide yield rates approaching 100%
- Factory pre-polished fiber end face eliminates time-consuming field polishing to reduce installation costs, labor, scrap and the number of tools required
- Cam activated fiber and buffer clamp mechanisms provide superior fiber and buffer retention- less sensitivity to fiber tensile loading
- OptiCam™ 2 Termination Tool simplifies tooling and termination, and virtually eliminates operator error by providing visual indication of proper termination after the cam step has been completed
- Fiber cable size: accepts 900µm tight buffered fiber with included boot(s); accepts 1.6mm-2.0mm and 3.0mm jacketed cable with available OptiCam™ Cable Retention Boot Assemblies
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated mating) to meet a variety of application requirements
- Use OptiCam™ 2 Termination Kit (FOCTT2-KIT; FOCTT2-BKIT2; FOCTT2-PKIT2)



| Part Number | Cable Type | Connector Variant | Fiber Type  | Cable Color    |
|-------------|------------|-------------------|-------------|----------------|
| FSC2MC6EI   | Simplex    | Multimode         | OM1         | Electric Ivory |
| FSC2MCXAQ   |            |                   | OM3/OM4/OM5 | Aqua           |
| FSC2SCBU    |            | Singlemode        | OS1/OS2     | Blue           |
| FST2MC6EI   |            | Multimode         | OM1         | Electric Ivory |
| FST2SCBU    |            | Singlemode        | OS1/OS2     | Blue           |

## Fiber Optic Connectors - Fusion Splice

- TIA/EIA-604 FOCIS-3 (SC) and FOCIS-10 (LC) compliant connectors
- Exceed ANSI/TIA-568.3-D requirements
- Connector boot colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Insertion loss: Singlemode is 0.15 dB average, 0.30 dB maximum; Multimode is 0.10 dB average, 0.25 dB maximum
- Return loss: Singlemode is > 55 dB (UPC) or > 65 dB (APC); multimode is > 30 dB (PC)
- Quick installation; provide field termination in less than half the time of the field polish connectors



| Part Number    | Connector Type | Cable Type | Connector Variant | Fiber Type  | Boot Color |
|----------------|----------------|------------|-------------------|-------------|------------|
| FSCS2/9SOCA9AG | SC             | Simplex    | Singlemode        | OS1/OS2     | Green      |
| FSCS2/9SOCU9BU |                |            |                   |             | Blue       |
| FSCS2/9SOCPXAQ |                |            | Multimode         | OM3/OM4/OM5 | Aqua       |
| FLCS2/9SOCA9AG | LC             |            | Singlemode        | OS1/OS2     | Green      |
| FLCS2/9SOCU9BU |                |            |                   |             | Aqua       |
| FLCS2/9SOCPXAQ |                |            | Multimode         | OM3/OM4/OM5 | Blue       |

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### OptiCam™ 2 Termination Tool

- Provides accurate calculated connector insertion loss with pass/fail thresholds in accordance with ANSI/TIA-568.3-D
- LCD Display with on-screen directions for three step termination process
- Wireless enabled for synchronization with Connect-It mobile app, allowing rich data analytics and project documentation
- Works with all current Panduit OptiCam™ LC, Keyed LC, SC, and ST Connectors

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FOCTT2-BKIT2



FOCTT2-PKIT2

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| Part Number  | Description   |
|--------------|---|
| FOCTT2-KIT   | OptiCam™ 2 Termination Tool Basics Kit.   |
| FOCTT2-BKIT2 | OptiCam™ 2 Termination Tool Kit with beaver-tail style cleaver.   |
| FOCTT2-PKIT2 | OptiCam™ 2 Termination Tool Kit with precision rotary-style cleaver.  |
| FOLPC-1.25SM | Replacement 1.25mm ferrule launch cord for singlemode LC terminations (Singlemode).                           |
| FOLPC-1.25MM | Replacement 1.25mm ferrule launch cord for multimode LC terminations (OM1, OM2, OM3/OM4/OM5 Multimode).       |
| FOLPC-2.5SM  | Replacement 2.5mm ferrule launch cord for singlemode SC and ST terminations (Singlemode).                     |
| FOLPC-2.5MM  | Replacement 2.5mm ferrule launch cord for multimode SC and ST terminations (OM1, OM2, OM3/OM4/OM5 Multimode). |
| FSPCVR       | Precision fiber cleaver with rotary blade, receptacle for scrap stubs, cleave counter.                        |
| FOCTT2CORD   | OptiCam™ 2 Termination Tool Data Cord.  |
| FOSTFH       | Fiber Optic Strip Tool (Five Hole).   |

### OptiCam™ Accessories



FLCCLIW-X

| Part Number | Description  |
|-------------|--|
| FLCCLIW-X   | Ten fiber LC connector lock-in clips and one removal tool. |
| FO6CB       | Fan out 6-fibers.  |
| FO12CB      | Fan out 12-fibers.   |
| F250BT-C    | Build-up tubing for 250µm cable.                           |
| FCLEANSOL   | Fiber cleaning solution.                                   |
| FCLEANWIPE  | Fiber cleaning wipes.                                      |

## Opti-Core™ Fiber Optic Indoor Distribution Cable

- Used in intrabuilding backbone, building backbone, and horizontal installations
- Available in 4, 6, 8, 12 and 24-fiber counts in a “single jacket” design, and in 36, 48, 72 and 96-fiber counts in a sub-unit design
- Sheath markings provide positive identification, quality, traceability, and length verification
- Cable design and flexible buffer tubes allow for quick breakout and ease of routing
- 900mm standards-based color-coded buffer coating protects fibers during handling and allows for easy identification and stripping



FADCZ06-37

| Part Number                   | Cable Construction                               | EuroClass     | Available Fiber Types | Available Fiber Counts |
|-------------------------------|--|---------------|-----------------------|------------------------|
| <b>Indoor, All Dielectric</b> |  |               |                       |                        |
| FAIC%02-40                    | 2.9mm Duplex (Zipcord), 900um Tight Buffered     | Eca           | OS2, OM3, OM4         | 2                      |
| FAEC%^-40                     | Distribution, Sub-unitized, 900um Tight Buffered | Eca           | OS2, OM3, OM4         | 48, 72, 96             |
| FADC%^-37                     | Distribution, 900um Tight Buffered               | Dca-s2-d2-a1  | OS2, OM3, OM4         | 2, 4, 6, 8, 12, 24     |
| FADC%^-24                     |  | Cca-s1a-d1-a1 | OS2, OM3, OM4         |                        |

Replace % with fibre type: 9 = 9um OS2 singlemode, X = 50um OM3 multimode, Z = 50um OM4 multimode, W = 50um OM5 multimode.

Replace ^^ with available fibre count: 02 = 2 fibres, 04 = 4 fibres, 06 = 6 fibres, 08 = 8 fibres, 12 = 12 fibres, 24 = 24 fibres, 48 = 48 fibres, 72 = 72 fibres, 96 = 96 fibres. 1A = 144 fibres

## Opti-Core™ Fiber Optic Indoor-Outdoor, All Dielectric

- For indoor and outdoor applications including data centers and routing between telecommunications rooms; can be installed in ducts and on trays
- Eliminates the need for building entrance transition point
- All-dielectric cable construction requires no grounding or bonding
- UV resistant cable sheathing for harsh outdoor environments
- Dry water-blocking technology allows rapid cable preparation and termination for lower termination costs and time (no messy gel)
- Sheath markings provide positive identification, quality, traceability, and length verification
- 900µm buffer coating protects fibers during handling and allows for ease of stripping



FAKC912-40



FANCZ36-40

| Part Number                           | Cable Construction  | EuroClass      | Available Fiber Types | Available Fiber Counts |
|---------------------------------------|---|----------------|-----------------------|------------------------|
| <b>Indoor-Outdoor, All Dielectric</b> |   |                |                       |                        |
| FAKC%^-40                             | Indoor-Outdoor, 900um Tight Buffered (Gel-free)             | Eca            | OS2, OM3, OM4         | 2, 4, 6, 8, 12, 24     |
| FAKC%^-24                             |   | Cca-s1a-d1-a1  | OS2, OM3, OM4, OM5*   |                        |
| FACC%^-40                             | Indoor-Outdoor, 250um Loose Tube (Gel-Filled Central Tube)  | Eca            | OS2, OM3, OM4         | 4, 6, 8, 12, 24        |
| FACC%^-24                             |   | Cca-s1a-d1-a1  | OS2, OM3, OM4, OM5*   |                        |
| FACC%^-14                             |   | B2ca-s1a-d1-a1 | OS2, OM4              |                        |
| FANC%^-40                             | Indoor-Outdoor, 250um Loose Tube (Gel-Filled Stranded Tube) | Eca            | OS2, OM3, OM4         | 48, 72, 96, 144        |
| FANC%^-24                             |   | Cca-s1a-d1-a1  | OS2, OM3, OM4         |                        |
| FANC%^-14                             |   | B2ca-s1a-d1-a1 | OS2, OM4              |                        |

Replace % with fibre type: 9 = 9um OS2 singlemode, X = 50um OM3 multimode, Z = 50um OM4 multimode, W = 50um OM5 multimode.

Replace ^^ with available fibre count: 02 = 2 fibres, 04 = 4 fibres, 06 = 6 fibres, 08 = 8 fibres, 12 = 12 fibres, 24 = 24 fibres, 48 = 48 fibres, 72 = 72 fibres, 96 = 96 fibres. 1A = 144 fibres

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### Opti-Core™ Fiber Optic Indoor/Outdoor Steel Armour Cable

- Corrugated steel tape armour eliminates the need for inner duct or conduit to provide a smaller crush resistant pathway, improved design flexibility, and lower installed cost
- Loose tubes are gel-filled for superior water-blocking
- High density design can be used indoors or outdoors; suitable for duct applications and entrance facilities
- UV resistant cable sheathing for harsh outdoor environments
- Central tube design available with 4, 6, 8, 12 or 24 fibers; Stranded tube design available with 36, 48, 72, 96 or 144 fibers

| Part Number | Cable Construction | EuroClass | Available Fiber Types | Available Fiber Counts |
|-------------|--------------------|-----------|-----------------------|------------------------|
|-------------|--------------------|-----------|-----------------------|------------------------|

#### Indoor-Outdoor with Corrugated Steel Tape Armour

|                   |  |                |               |                 |
|-------------------|--|----------------|---------------|-----------------|
| <b>FAGC%^^-40</b> | Indoor-Outdoor Armoured, 250um Loose Tube (Gel-Filled Central Tube)  | Eca            | OS2, OM3, OM4 | 4, 6, 8, 12, 24 |
| <b>FAGC%^^-14</b> |  | B2ca-s1a-d1-a1 | OS2, OM4      |                 |
| <b>FAMC%^^-40</b> | Indoor-Outdoor Armoured, 250um Loose Tube (Gel-Filled Stranded Tube) | Eca            | OS2, OM3, OM4 | 48, 72, 96, 144 |
| <b>FAMC%^^-24</b> |  | Cca-s1a-d1-a1  | OS2, OM3, OM4 |                 |
| <b>FAMC%^^-14</b> |  | B2ca-s1a-d1-a1 | OS2, OM4      |                 |

Replace % with fibre type: 9 = 9um OS2 singlemode, X = 50um OM3 multimode, Z = 50um OM4 multimode, W = 50um OM5 multimode.

Replace ^^ with available fibre count: 02 = 2 fibres, 04 = 4 fibres, 06 = 6 fibres, 08 = 8 fibres, 12 = 12 fibres, 24 = 24 fibres, 48 = 48 fibres, 72 = 72 fibres, 96 = 96 fibres. 1A = 144 fibres

### Opti-Core™ Fiber Optic Outside Plant Armored Cable (Gel-Filled)

- Allows installation using loose tube cable methods in harsh outdoor environments
- Loose tubes are gel-filled for superior water-blocking
- Corrugated steel armor provides superior crush resistance and rodent protection for extended durability
- UV resistant cable sheathing resists degradation due to sunlight exposure
- Complies with ISO/IEC 11801, IEC 60794 and EN 50173
- Single armor single jacket version available with central tube design and 4 to 24 fibers
- Single armor double jacket version available with stranded tube design and 2 to 144 fibers
- Medium density polyethylene jacket provides low friction installation
- Sheath markings provide positive identification, quality, traceability, and length verification
- 250µm coating protects fibers during handling and allows for ease of stripping

| Part Number | Cable Construction | EuroClass | Available Fiber Types | Available Fiber Counts |
|-------------|--------------------|-----------|-----------------------|------------------------|
|-------------|--------------------|-----------|-----------------------|------------------------|

#### Outside Plant, All-Dielectric and Corrugated Steel Tape Armoured

|                 |  |     |     |                                  |
|-----------------|--|-----|-----|----------------------------------|
| <b>FPUN9^^</b>  | Outside Plant, 250um Loose Tube (Gel-Filled Central Tube)                                | Fca | OS2 | 4, 6, 8, 12, 24                  |
| <b>FQUN%^^</b>  |  |     | OM4 |                                  |
| <b>FPTN9^^</b>  | Outside Plant, 250um Loose Tube (Gel-Filled Stranded Tube)                               |     | OS2 | 48, 72, 96, 144                  |
| <b>FQTN%^^</b>  |  |     | OM4 |                                  |
| <b>FPSN9^^</b>  | Outside Plant, 250um Loose Tube (Gel-Filled Central Tube), Single Armour, Single Jacket  |     | OS2 | 4, 6, 8, 12, 24                  |
| <b>FQSN%^^</b>  |  |     | OM4 |                                  |
| <b>FPQN%^^B</b> | Outside Plant, 250um Loose Tube (Gel-Filled Stranded Tube), Single Armour, Double Jacket |     | OS2 | 4, 6, 8, 12, 24, 48, 72, 96, 144 |
| <b>FQQN%^^B</b> |  |     | OM4 |                                  |

Replace % with fibre type: 9 = 9um OS2 singlemode, X = 50um OM3 multimode, Z = 50um OM4 multimode, W = 50um OM5 multimode.

Replace ^^ with available fibre count: 02 = 2 fibres, 04 = 4 fibres, 06 = 6 fibres, 08 = 8 fibres, 12 = 12 fibres, 24 = 24 fibres, 48 = 48 fibres, 72 = 72 fibres, 96 = 96 fibres. 1A = 144 fibres



FPQN948B



FQTNZ36

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## Opti-Core™ High Count Ribbon Fiber Optic Cable

- Ribbonized fibers for easy mass fusion splicing and termination with 12-fiber MPO style connectors
- Contains 144 to 864 singlemode fibers
- Very small outer diameter
- Suitable for indoor-outdoor use and flame rated to comply with riser, low smoke zero halogen, and EuroClass standards
- Robust, flexible, and all-dielectric construction
- Suitable for a variety of applications including data centers, colocation facilities, service providers, and central offices
- Typically installed on ladder rack and used with termination frames. May also be used in ducts.
- Meets all or portions of Telcordia GR-409, ICEA-S-83-696, ICEA-S-104-696, ICEA-S-115-730, and TIA-568
- UL 1666 (riser), IEC 60332-1-2 (vertical flame), IEC 60754-2 (acid gas), IEC 61034-2 (smoke density), EN 50575 EuroClass CPR



| Part Number                           | Cable Construction                                  | EuroClass      | Available Fiber Types | Available Fiber Counts |
|---------------------------------------|---|----------------|-----------------------|------------------------|
| <b>High Count Ribbon Fiber Cables</b> |   |                |                       |                        |
| <b>FFDCBF144-14F</b>                  | Indoor Distribution, LSZH CPR, Flat Ribbon, FT      | B2ca-s1a-d1-a1 | Singlemode            | 144                    |
| <b>FFDBBF144-18M</b>                  | Indoor Distribution, OFNR LSZH CPR, Flat Ribbon, MT | B2ca-s1a-d0-a1 |                       | 144                    |
| <b>FFCDBX144-28M</b>                  | Indoor-Outdoor, OFNR LSZH CPR, Flexible Ribbon, MT  | Ca-s1a-d0-a1   |                       | 144                    |
| <b>FFCCBX288-24F</b>                  | Indoor-Outdoor, LSZH CPR, Flexible Ribbon, FT       | Cca-s1a-d1-a1  |                       | 288                    |
| <b>FFCDBX288-28M</b>                  | Indoor-Outdoor, OFNR LSZH CPR, Flexible Ribbon, MT  | Cca-s1a-d0-a1  |                       | 288                    |

Replace % with fibre type: 9 = 9um OS2 singlemode, X = 50um OM3 multimode, Z = 50um OM4 multimode, W = 50um OM5 multimode.

Replace ^^ with available fibre count: 02 = 2 fibres, 04 = 4 fibres, 06 = 6 fibres, 08 = 8 fibres, 12 = 12 fibres, 24 = 24 fibres, 48 = 48 fibres, 72 = 72 fibres, 96 = 96 fibres. 1A = 144 fibres

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### Fiber Optic Adapters

- TIA/EIA-604 FOCIS-10 compatible adapters
- Exceed ANSI/TIA-568.3-D requirements
- Adapter housing colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Accept FOCIS-10 compatible LC connectors

B. Copper Systems

C. Fiber Systems



| Part Number                       | Adapter Type | Color | Split Sleeve |
|-----------------------------------|--------------|-------|--------------|
| <b>BEST SELLER</b><br>FADSLCZAQ-L | Duplex LC    | Aqua  | Zirconia     |
| <b>BEST SELLER</b><br>FADSLCZBU-L |              | Blue  |              |

D. Industrial Networks

E. Audio Video Systems

### Mini-Com™ Fiber Optic Adapter Modules

- TIA/EIA-604 FOCIS-10 and FOCIS-3 compatible adapters
- Exceed ANSI/TIA-568.3-D requirements
- Adapter housing colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Small form factor (SFF) duplex adapter design fits into single module space
- Compatible with Mini-Com™ Products for complete modularity
- Accept FOCIS-10 compatible LC connectors and FOCIS-3 compatible SC connectors

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CMDSAQLCZBL



CMDSLCZBU

| Part Number                       | Adapter Type   | Adapter Color | Split Sleeve | Module Color   |
|-----------------------------------|----------------|---------------|--------------|----------------|
| <b>BEST SELLER</b><br>CMDSAQLCZBL | Duplex LC      | Aqua          | Zirconia     | Black          |
| CMDSAGLCZBL                       | Duplex LC APC  | Green         |              |                |
| CMDSLCZBL                         |                |               |              | Blue           |
| <b>BEST SELLER</b><br>CMDSLCZBU   | Duplex LC      | Blue          | Zirconia     | Electric Ivory |
| CMDSLCZEI                         |                |               |              |                |
| CMDAQSCZBL                        | Duplex SC      | Aqua          |              | Black          |
| CMDBUSCZBL                        |                | Blue          |              |                |
| CMDAGSCZBL                        | Duplex SC APC  | Green         |              |                |
| CMSAQSCZBL                        | Simplex SC     | Aqua          |              |                |
| CMSBUSCZBL                        |                | Blue          |              |                |
| CMSAGSCZBL                        | Simplex SC APC | Green         |              |                |

## HD Flex™ Enclosures, Panels and Accessories

- Enclosures and panels support 144-fibers with LC connectors and 864-fiber with MPO-12 connectors per RU
- Enclosure drawers slide to two locked positions for easy moves, adds, and changes from the front or rear of the enclosure
- Enclosure split tray design allows half of the tray to operate independently, eliminating unnecessary fiber movement on the other half of the tray
- Panels are fixed tray design, light weight, and shallow depth - ideal for high density cabinets or overhead installation
- 4-, 6-, and 12-port enclosures and panels ship pre-configured to house 4-, 6-, and 12-port cassettes, respectively
- Enclosures and panels can be configured in the field to support 4-port, 6-port, and/or 12-port cassettes by adding/removing divider rails
- Zero RU brackets secure HD Flex™ Cassettes and/or FAPs to vertical rails, saving valuable RU space



FLEX4U04



FLEX1UPN04



FLEX1U06



FLEX1UPN06



FLEX-0RUBR06



FLEX1U12



FLEX1UPN12

| Part Number                      | No. of Rack Spaces | Type                               | Cassette/FAP Openings | Color                       |
|----------------------------------|--------------------|------------------------------------|-----------------------|-----------------------------|
| FLEX1U04                         | 1                  | 4-Port Enclosure                   | 18                    | Black                       |
| FLEX2U04                         | 2                  |                                    | 36                    |                             |
| FLEX4U04                         | 4                  |                                    | 72                    |                             |
| FLEX1UPN04                       | 1                  | 4-Port Panel                       | 18                    |                             |
| FLEX2UPN04                       | 2                  |                                    | 36                    |                             |
| FLEX4UPN04                       | 4                  |                                    | 72                    |                             |
| <b>BEST SELLER</b><br>FLEX1U06** | 1                  | 6-Port Enclosure                   | 12                    | Black<br>**Add WH for White |
| <b>BEST SELLER</b><br>FLEX2U06** | 2                  |                                    | 24                    |                             |
| FLEX4U06**                       | 4                  |                                    | 48                    |                             |
| FLEX1UPN06**                     | 1                  | 6-Port Panel                       | 12                    |                             |
| FLEX2UPN06**                     | 2                  |                                    | 24                    |                             |
| FLEX4UPN06**                     | 4                  |                                    | 48                    |                             |
| FLEX1U12                         | 1                  | 12-Port Enclosure                  | 6                     | Black                       |
| FLEX2U12                         | 2                  |                                    | 12                    |                             |
| FLEX4U12                         | 4                  |                                    | 24                    |                             |
| FLEX1UPN12                       | 1                  | 12-Port Panel                      | 6                     |                             |
| FLEX2UPN12                       | 2                  |                                    | 12                    |                             |
| FLEX4UPN12                       | 4                  |                                    | 24                    |                             |
| FLEX-0RUBR06**                   | 0                  | 6-Port Bracket and Cassette Holder | 2                     | Black<br>**Add WH for White |

## HD Flex™ Raised Floor Enclosure



FLEX-ZRFEG

| Part Number | Description                                       |
|-------------|---|
| FLEX-ZRFECG | HD Flex™ Zone Raised Floor Enclosure Cover, Gray. |
| FLEX-ZRFEG  | HD Flex™ Zone Raised Floor Enclosure, Gray.       |

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### HD Flex™ Fiber Optic Cassettes

- Compatible with HD Flex™ Rack Mount Enclosures, Panels, and Zero RU Brackets
- LC adapters include integral shutters for dust protection and VFL light identification
- Low insertion loss of 0.5 dB per optimized cassette, 0.35 dB for ultra cassette, and 0.75 dB for standard singlemode cassette
- Return loss >26 dB (multimode) and >55 dB (singlemode)
- Adapter housing colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Cassettes accessible from the front or back to streamline installation and migration from 10G to 40G/100G and beyond
- Performance test data provided with each cassette
- Lifetime traceability of test data to a QC numbers on each fiber cassette
- 4-to-1 conversion cassettes split MPO parallel optics signals into 4 discrete channels on duplex LCs - 40G MPO to (4)10G LC, and 100G MPO to (4) 25G LC

| Part Number                      | Fiber Type | Fiber Count | No. of MPOs | No. of Duplex LCs | Performance | Polarity                         |                                  |           |                                  |
|----------------------------------|------------|-------------|-------------|-------------------|-------------|----------------------------------|----------------------------------|-----------|----------------------------------|
| <b>HD Flex™ LC/MPO Cassettes</b> |            |             |             |                   |             |                                  |                                  |           |                                  |
| <b>FHC9N-12-10AF</b>             | OS2        | 12          | 1x12f       | 6                 | Standard    | Modified Method A (Pair Flipped) |                                  |           |                                  |
| <b>FHC9N-12-10AS</b>             |            |             |             |                   |             | Method A                         |                                  |           |                                  |
| <b>FHC9N-12-10U</b>              |            |             |             |                   |             | Universal                        |                                  |           |                                  |
| <b>FHCXO-12-10AF</b>             | OM3        |             |             |                   | Optimized   | Modified Method A (Pair Flipped) |                                  |           |                                  |
| <b>FHCXO-12-10AS</b>             |            |             |             |                   |             | Method A                         |                                  |           |                                  |
| <b>FHCXO-12-10U</b>              |            |             |             |                   |             | Universal                        |                                  |           |                                  |
| <b>FHCZA-12-10AF</b>             | OM4        |             |             | Ultra             | 6           | Ultra                            | Modified Method A (Pair Flipped) |           |                                  |
| <b>FHCZA-12-10AS</b>             |            |             |             |                   |             |                                  | Method A                         |           |                                  |
| <b>FHCZA-12-10U</b>              |            |             |             |                   |             |                                  | Universal                        |           |                                  |
| <b>FHCZO-12-10AF</b>             | OM4        |             |             |                   |             | Optimized                        | 6                                | Optimized | Modified Method A (Pair Flipped) |
| <b>FHCZO-12-10AS</b>             |            |             |             |                   |             |                                  |                                  |           | Method A                         |
| <b>FHCZO-12-10U</b>              |            |             |             |                   |             |                                  |                                  |           | Universal                        |
| <b>FHCZA-12-10U</b>              | OM4+       | Ultra       | 6           | Ultra             | Universal   |                                  |                                  |           |                                  |
| <b>FHCWA-12-10BN</b>             |            |             |             |                   | Method B    |                                  |                                  |           |                                  |
| <b>FHC9N-24-10AF</b>             | OS2        | 24          | 2x12f       | 12                | Standard    | Modified Method A (Pair Flipped) |                                  |           |                                  |
| <b>FHC9N-24-10AS</b>             |            |             |             |                   |             | Method A                         |                                  |           |                                  |
| <b>FHC9N-24-10U</b>              |            |             |             |                   |             | Universal                        |                                  |           |                                  |
| <b>FHCXO-24-10U</b>              | OM3        |             |             |                   | Optimized   | 12                               | Optimized                        | Method B  |                                  |
| <b>FHCZO-24-10BN</b>             |            |             |             |                   |             |                                  |                                  | OM4       | Universal                        |
| <b>FHCZO-24-10U</b>              |            |             |             |                   |             |                                  |                                  |           |                                  |
| <b>FHCZA-24-10U</b>              | OM4+       |             |             | Ultra             | 12          | Ultra                            | Universal                        |           |                                  |
| <b>FHCWA-24-10BN</b>             |            |             |             |                   |             |                                  | Method B                         |           |                                  |



FHC9N-12-10AF



FHCZO-12-10AS



FHCXO-24-10U

# HD Flex™ Fiber Optic Cassettes (continued)

## HD Flex™ CS/MPO Cassettes



FHC9N-16-C2U

| Part Number   | Fiber Type | No. of Rear MPOs | Fiber Count | No. of Front Duplex CS | Performance | Polarity  |
|---------------|------------|------------------|-------------|------------------------|-------------|-----------|
| FHC9N-16-C2U  | OS2        | (2) 8F MPO       | 16          | (8) CS                 | Standard    | Universal |
| FHC9N-16F-C2U |            | (1) 24F MPO      |             |                        |             |           |
| FHC9N-36-C3U  |            | (3) 12F MPO      | 36          | (18) CS                |             |           |
| FHCZO-16-C2U  | OM4        | (2) 8F MPO       | 16          | (8) CS                 | Optimized   |           |
| FHCZO-16F-C2U |            | (1) 24F MPO      |             |                        |             |           |
| FHCZO-36-C3U  |            | (3) 12F MPO      | 36          | (18) CS                |             |           |

| Part Number | Fiber Type | Fiber Count | No. of Rear MPOs | No. of Front Duplex LCs | Performance | Polarity |
|-------------|------------|-------------|------------------|-------------------------|-------------|----------|
|-------------|------------|-------------|------------------|-------------------------|-------------|----------|

## HD Flex™ 4-to-1 Conversion Cassettes



FHC3ZA-08H-10B



FHC39N-08-10A



FHC39N-24H-10A



FHCXO-24F-10A

|                |     |    |      |    |           |                    |
|----------------|-----|----|------|----|-----------|--------------------|
| FHC3XO-08H-10B | OM3 | 8  | 1x8f | 4  | Optimized | Method B/Universal |
| FHC3ZA-08H-10B | OM4 |    |      |    | Ultra     |                    |
| FHC39N-08H-10A | OS2 |    |      |    | Standard  | Method A           |
| FHC3XO-08-10B  | OM3 | 8  | 1x8f | 4  | Optimized | Method B/Universal |
| FHC3ZA-08-10B  | OM4 |    |      |    | Ultra     |                    |
| FHC39N-08-10A  | OS2 |    |      |    | Standard  | Method A           |
| FHC3XO-24H-10B | OM3 | 24 | 3x8f | 12 | Optimized | Method B/Universal |
| FHC3ZA-24H-10B | OM4 |    |      |    | Ultra     |                    |
| FHC39N-24H-10A | OS2 |    |      |    | Standard  | Method A           |

## 100GBASE-SR10 and SR12 Breakout Cassettes

|                                     |     |    |       |    |           |          |
|-------------------------------------|-----|----|-------|----|-----------|----------|
| <b>BEST SELLER</b><br>FHCXO-24F-10A | OM3 | 24 | 1x24f | 12 | Optimized | Method A |
| <b>BEST SELLER</b><br>FHCZO-24F-10A | OM4 |    |       |    |           |          |
| <b>BEST SELLER</b><br>FHC9N-24F-10A | OS2 |    |       |    | Standard  |          |

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#### HD Flex™ Dark Fiber Conversion Cassette



FH4ZU-48-NMNMA

| Part Number    | Fiber Type | Fiber Count | No. of Rear MPOs | No. of Front MPOs | Performance | Polarity |
|----------------|------------|-------------|------------------|-------------------|-------------|----------|
| FH4ZU-24-NMNMA | OM4        | 24          | 2x12f            | 3x8f              | Ultra       | Method A |
| FH4ZU-24-NMNMB |            |             |                  |                   |             | Method B |
| FH4ZU-48-NMNMA |            | 48          | 4x12f            | 6x8f              |             | Method A |

#### HD Flex™ Splice Cassettes



FHSZO-12-10R

| Part Number  | Fiber Type | Fiber Count | Pigtail        | No. of Duplex LCs | Performance |
|--------------|------------|-------------|----------------|-------------------|-------------|
| FHSZO-12-10P | OM4        | 12          | 250µm Pigtails | 6                 | Optimized   |
| FHSZO-12-10R |            |             | Ribbon         |                   |             |
| FHS9N-12-10P | OS2        |             | 250µm Pigtails |                   | Standard    |
| FHS9N-12-10R |            |             | Ribbon         |                   |             |

### HD Flex™ Adapter Panel and Accessories



FHSXN-12-10N



FHMP-6-ABL



FHSBBL06W



FLEX-FCM1UA



FLEX-PLATE1U

| Part Number                          | Description  |
|--------------------------------------|--|
| FHSXN-12-10N                         | 6 LC duplex multimode adapters in aqua with zirconia sleeves.  |
| FHS9N-12-10N                         | 6 LC duplex singlemode adapters in blue with zirconia sleeves. |
| FHMP-6-ABL                           | 6 MPO type A adapters (key-up to key-down) in black.           |
| FHMP-6-BCG                           | 6 MPO type B adapters (key-up to key-up) in charcoal gray.     |
| FHMP-6-ARD                           | 6 MPO type A adapters (key-up to key-down) in red.             |
| FHSBBL06W                            | HD Flex™ Blanking Panel for 6-port enclosures and panels.      |
| FHSBBL12W                            | HD Flex™ Blanking Panel for 12-port enclosures and panels.     |
| FLEX-FCM1UA**                        | 1 RU HD Flex™ Front Cable Manager.                             |
| FLEX-FCM2UA**                        | 2 RU HD Flex™ Front Cable Manager.                             |
| FLEX-FCM4UA**                        | 4 RU HD Flex™ Front Cable Manager.                             |
| <b>BEST SELLER</b><br>FLEX-PLATE1U** | HD Flex™ Enclosure Trunk Slack Plate 1 RU.                     |
| FLEX-PLATE2U**                       | HD Flex™ Enclosure Trunk Slack Plate 2 RU.                     |
| FLEX-PLATE4U**                       | HD Flex™ Enclosure Trunk Slack Plate 4 RU.                     |

\*\*Offered in White (add WH to part number for White).

## HD Flex™ Adapter Panel and Accessories (continued)



FLEX-CLIP12



FLEX-CM12S



FLEX-CM-1UB

| Part Number     | Description  |
|-----------------|--|
| FLEX-PLATE1UR*  | HD Flex™ Enclosure Trunk Slack Plate with Rear Cover – 1 RU.   |
| FLEX-PLATE2UR*  | HD Flex™ Enclosure Trunk Slack Plate with Rear Cover – 2 RU.   |
| FLEX-PLATE4UR*  | HD Flex™ Enclosure Trunk Slack Plate with Rear Cover – 4 RU.   |
| FLEX-PLATE1UPR* | HD Flex™ Patch Panel Trunk Slack Plate with Rear Cover – 1 RU.   |
| FLEX-PLATE2UPR* | HD Flex™ Patch Panel Trunk Slack Plate with Rear Cover – 2 RU.   |
| FLEX-PLATE4UPR* | HD Flex™ Patch Panel Trunk Slack Plate with Rear Cover – 4 RU.   |
| FLEX-CLIP12     | HD Flex™ Trunk Transition Clip (quantity 2); 12 position.  |
| FLEX-CM12S      | HD Flex™ Universal Rear Cable Manager includes (2) FLEX-CLIP12.  |
| FLEX-CM-1UB     | HD Flex™ Universal Expandable Cable Management Bracket (front to back of cabinet or 4 post rack).          |
| FLEX-CM-1UBKIT  | HD Flex™ Cable Management 1 RU Universal Bracket 19" Kit (2 FLEX-CM-1UB and horizontal strain relief bar). |

\*Offered in White (add W to part number for White).

## HD Fusion Splicing Enclosure and Accessories



FRMHSS-4RU



FWMHSSGS-3456



FWMHSSGS-6912

| Part Number    | Description   |
|----------------|---|
| FRMHSS-4RU     | HD Fusion - fiber rack mount hyperscale splicing solution 4 RU that can splice up to 576 single fibers and 864 ribbon fibers. Splice trays sold separately. |
| FWMHSSGS-3456  | Fiber Wall Mount Hyper Scale Splicing Enclosure With Split Doors, Gray, 3456 Fibers.  |
| FWMHSSGS-6912  | Fiber Wall Mount Hyper Scale Splicing Enclosure With Split Doors, Gray, 6912 Fibers.  |
| FWMHSS-CG3448  | Cable gland, 34mm x 48mm.   |
| FWMHSS-CG613   | Cable gland, 6mm x 13.9mm.  |
| FST48          | Fiber splice tray kit for up to 48 mechanical or fusion splices for use in Panduit FRMHSS-4RU.  |
| FST144R        | Fiber splice tray kit for up to 144 ribbon fusion splices for use in Panduit FRMHSS-4RU.  |
| FWMHSS-CG1321  | Cable gland, 13mm x 21mm.   |
| FWMHSS-CG2135  | Cable gland, 21mm x 35mm.   |
| FWMHSSG-12X32  | Fiber Wall Mount Enclosure, Top and Side Covers with 12 x 32mm openings, Gray.  |
| FWMHSSG-GROUND | Fiber Wall Mount Enclosure Grounding Bracket, Gray.   |
| FWMHSSG-ICB    | Fiber Wall Mount Enclosure Incoming Cable Bracket Kit, Gray.  |
| FWMHSSG-ICP    | Fiber Wall Mount Enclosure Incoming Cable Plate Kit, Gray.  |
| FWMHSSG-STOR   | Fiber Wall Mount Enclosure Storage Box, Gray.   |
| FWMHSS-ICAK    | Fiber Wall Mount Enclosure Incoming Cable Anchor Kit.   |

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### Opticom™ QuickNet™ Rack Mount Fiber Cassette Enclosures

- Support up to 96 LC fiber connections per RU
- Mount to standard 19" rack rails
- Hold QuickNet™ Fiber Optic Cassettes for Opticom™ Fiber Adapter Panels
- Suitable for all pre-terminated, field-terminated, or field-splice applications
- Slide-out, tilt-down drawer provides full front access to all fibers and cables
- Integral bend radius control and cable management for fiber patch cords
- Innovative rear cable management for proper slacking/spooling
- Multiple cable entry locations

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| Part Number                   | Description   | Cassette/FAP/FOSM Openings |
|-------------------------------|---|----------------------------|
| <b>BEST SELLER</b><br>FCE1U** | Rack mount fiber enclosure 1 RU, with sliding/tilt drawers. | 4                          |
| FCE1UA**                      | Rack mount fiber enclosure 1 RU, open access.               |                            |
| <b>BEST SELLER</b><br>FCE2U** | Rack mount fiber enclosure 2 RU, with sliding/tilt drawers. | 8                          |
| <b>BEST SELLER</b><br>FCE4U** | Rack mount fiber enclosure 4 RU, with sliding/tilt drawers. | 12                         |

\*\*Offered in White (add WH to part number for White).

### Opticom™ QuickNet™ Rack Mount Fiber Enclosures

- Supports up to 96 LC fiber connections per RU
- Mount to standard 19" or 23" EIA rack or cabinet
- Hold QuickNet™ or Opticom™ Fiber Adapter Panels (FAPs)
- Front and rear access on all models via durable molded-hinge doors
- Integral bend radius control and cable management for fiber patch cords
- Multiple trunk cable entry locations
- Include fiber optic cable routing kit (grommets, cable ties, saddle clips, strain relief bracket, and ID/caution labels) for various cable management solutions
- Extends 4.9" from rack



| Part Number | No. of Rack Spaces | Cassette/FAP/FOSM Openings |
|-------------|--------------------|----------------------------|
| FRME1U      | 1                  | 3                          |
| FRME2U      | 2                  | 6                          |
| FRME3       | 3                  | 9                          |
| FRME4       | 4                  | 12                         |

## Opticom™ QuickNet™ Wall Mount Enclosures

- Holds Opticom™ Fiber Adapter Panels (FAP's)
- Rugged all metal construction for fiber protection and secure mounting
- Compact design allows installation in tight areas
- Separate doors for service side and user side with optional keyed locks for added security includes fiber optic routing kit (grommets, cable ties, spools, strain relief bracket and ID/caution labels) for various cable management solutions



FWME2

| Part Number                 | FAP/FMP Openings |
|-----------------------------|------------------|
| <b>BEST SELLER</b><br>FWME2 | 2                |
| <b>BEST SELLER</b><br>FWME4 | 4                |
| FWME8                       | 8                |

## Opticom™ Rack Mount Fiber Trays

- Supports up to 96 LC fiber connections per RU
- Mount to standard EIA 19" rack rails
- Use with Opticom™ Fiber Adapter Patch Panels (page C.18) to protect fibers and terminations
- Can be used as a back box for select Mini-Com™ Patch Panels
- Removable top cover provides access to connections, fibers, and slack storage in rear of tray
- Multiple trunk cable entry locations provided on rear and sides of enclosure
- Includes fiber optic cable routing kit (grommets, cable ties, spools, strain relief bracket and ID/caution labels) for various cable management solutions
- Utilizes accessory kit, FMTDKIT



FMT1



FMT2

| Part Number                       | Description                                       | Cassette/FAP/FMP Openings |
|-----------------------------------|---|---------------------------|
| <b>Standard Fiber Mount Trays</b> |   |                           |
| FMT1**                            | Mount with 1 CFAPPBL1 fiber adapter patch panel.  | 4                         |
| <b>BEST SELLER</b><br>FMT2        | Mount with 2 CFAPPBL1 fiber adapter patch panels. | 8                         |

\*\*Offered in White (add WH to part number for White).

## Opticom™ Rack Mount Fiber Drawers



FMD1



FMD2

| Part Number                | Description   |
|----------------------------|---|
| <b>BEST SELLER</b><br>FMD1 | Rack Mount Fiber Drawer 1 RU.   |
| <b>BEST SELLER</b><br>FMD2 | Rack Mount Fiber Drawer 2 RU.   |
| FMS1                       | Fiber Management Slack Spool Kit (2 Per Bag)  |
| FD1W12AQDLCZ               | Pre-loaded fiber drawer with 12 aqua OM3/OM4 duplex 50µm LC Adapters (Zirconia Sleeve). |
| FD1W12AQDSCZ               | Pre-loaded fiber drawer with 12 aqua OM3/OM4 duplex 50µm SC Adapters (Zirconia Sleeve). |
| FD1W12BUDLCZ               | Pre-loaded fiber drawer with 24 blue OS1/OS2 duplex 50µm LC Adapters (Zirconia Sleeve). |
| FD1W12BUDSCZ               | Pre-loaded fiber drawer with 24 blue OS1/OS2 duplex 50µm LC Adapters (Zirconia Sleeve). |
| FD1W24AQDLCZ               | Pre-loaded fiber drawer with 24 aqua OM3/OM4 duplex 50µm LC Adapters (Zirconia Sleeve). |
| FD1W24AQDSCZ               | Pre-loaded fiber drawer with 24 aqua OM3/OM4 duplex 50µm SC Adapters (Zirconia Sleeve). |
| FD1W24BUDLCZ               | Pre-loaded fiber drawer with 24 blue OS1/OS2 duplex 9µm LC Adapters (Zirconia Sleeve).  |
| FD1W24BUDSCZ               | Pre-loaded fiber drawer with 24 blue OS1/OS2 duplex 9µm SC Adapters (Zirconia Sleeve).  |



A. Product Showcase

### Opticom™ Fiber Adapter Patch Panels

- Mount to standard EIA 19" rack rails
- Standard version holds both QuickNet™ Fiber Optic Cassettes and Opticom™ Fiber Adapter Panels
- Use with Opticom™ Rack Mount Fiber Trays to protect fibers and terminations, see page C.18

B. Copper Systems



CFAPPBL1



CFAPPBL2

| Part Number                                     | No. of Rack Spaces | Cassette/FAP/FMP Openings |
|---|--------------------|---------------------------|
| <b>Standard Flat Fiber Adapter Patch Panels</b> |                    |                           |
| CFAPPBL1  | 1                  | 4                         |
| CFAPPBL2  | 2                  | 8                         |

C. Fiber Systems

D. Industrial Networks

E. Audio Video Systems

### Opticom™ QuickNet™ MPO Fiber Optic Cassettes

- Compatible with Opticom™ Rack Mount Cassette Enclosures, Wall Mount Enclosure, Fiber Trays, and Adapter Patch Panels
- Supports up to 96 LC fiber connections per RU
- Low insertion loss of 0.75 dB for standard cassette, 0.5 dB for optimized cassette, and 0.35 dB for ultra cassette
- Return loss >26 dB (multimode) and >55 dB (singlemode)
- Adapter housing colors follow ANSI/TIA-568.3-D suggested color scheme
- Factory terminated, assembled, and 100% tested
- Performance test data provided with each cassette
- Lifetime traceability of test data to a QC number on each fiber cassette
- 4-to-1 conversion cassettes split MPO parallel optics signals into 4 discrete channels on duplex LCs - 40G MPO to (4)10G LC, and 100G MPO to (4) 25G LC

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FC2XN-12-10U



FC2WA-12-10B1

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| Part Number                  | Fiber Type | Fiber Count | No. of MPOs | No. of Duplex LCs | Performance | Polarity                         |           |                                  |
|------------------------------|------------|-------------|-------------|-------------------|-------------|----------------------------------|-----------|----------------------------------|
| <b>12 Fiber LC Cassettes</b> |            |             |             |                   |             |                                  |           |                                  |
| FC29N-12-10AF                | OS2        | 12          | 1x12f       | 6                 | Standard    | Modified Method A (Pair Flipped) |           |                                  |
| FC29N-12-10AS                |            |             |             |                   |             | Method A                         |           |                                  |
| FC29N-12-10U                 |            |             |             |                   |             | Universal                        |           |                                  |
| FC2SA-12-10U                 | OM4+       |             |             |                   | Ultra       | Method B End 1                   |           |                                  |
| FC2WA-12-10B1                | OM5        |             |             |                   |             | Method B End 2                   |           |                                  |
| FC2WA-12-10B2                |            |             |             |                   |             | Universal                        |           |                                  |
| FC2XN-12-10U                 | OM3        |             |             |                   | Standard    | Universal                        |           |                                  |
| FC2XO-12-10U                 |            |             |             |                   |             |                                  | Optimized |                                  |
| FC2ZA-12-10U                 |            |             |             |                   |             |                                  | Ultra     |                                  |
| FC2ZN-12-10AS                | OM4        |             |             |                   | Standard    | Method A                         |           |                                  |
| FC2ZO-12-10AF                |            |             |             |                   |             |                                  | Optimized | Modified Method A (Pair Flipped) |
| FC2ZO-12-10AS                |            |             |             |                   |             |                                  |           | Method A                         |
| FC2ZO-12-10U                 |            | Universal   |             |                   |             |                                  |           |                                  |

Opticom™ QuickNet™ MPO Fiber Optic Cassettes (continued)



FC2XN-24-10U



FC29N-24-10AS

| Part Number                  | Fiber Type | Fiber Count | Port Count | No. of MPOs | Performance | Polarity                         |                |           |                                  |
|------------------------------|------------|-------------|------------|-------------|-------------|----------------------------------|----------------|-----------|----------------------------------|
| <b>24 Fiber LC Cassettes</b> |            |             |            |             |             |                                  |                |           |                                  |
| FC29N-24-10AF                | OS2        | 24          | 2x12f      | 12          | Standard    | Modified Method A (Pair Flipped) |                |           |                                  |
| FC29N-24-10AS                |            |             |            |             |             | Method A                         |                |           |                                  |
| FC29N-24-10U                 |            |             |            |             |             | Universal                        |                |           |                                  |
| FC2SA-24-10U                 | OM4+       |             |            |             |             | Ultra                            | Method B End 1 |           |                                  |
| FC2WA-24-10B1                | OM5        |             |            |             |             |                                  | Method B End 2 |           |                                  |
| FC2WA-24-10B2                |            |             |            |             |             |                                  |                |           |                                  |
| FC2XN-24-10U                 | OM3        |             |            |             | Standard    | Universal                        |                |           |                                  |
| FC2XO-24-10U                 |            |             |            |             | Optimized   |                                  |                |           |                                  |
| FC2ZA-24-10U                 |            |             |            |             | Ultra       |                                  |                |           |                                  |
| FC2ZN-24-10AF                | OM4        |             |            |             | 24          | 2x12f                            | 12             | Standard  | Modified Method A (Pair Flipped) |
| FC2ZN-24-10AS                |            |             |            |             |             |                                  |                |           | Method A                         |
| FC2ZO-24-10AF                |            |             |            |             |             |                                  |                |           | Standard                         |
| FC2ZO-24-10AS                |            |             |            |             |             |                                  |                | Method A  |                                  |
| FC2ZO-24-10U                 |            |             |            |             |             |                                  |                | Universal |                                  |

Opticom™ Fiber Optic Splice Cassettes



FCS9N-12-10P

| Part Number  | Fiber Type | Pigtails       | Connector | Performance |
|--------------|------------|----------------|-----------|-------------|
| FCS9N-12-03P | OS2        | 250µm Pigtails | SC        | Standard    |
| FCS9N-12-03R |            | Ribbon         |           |             |
| FCS9N-12-10P |            | 250µm Pigtails | LC        |             |
| FCS9N-12-10R |            | Ribbon         |           |             |
| FCSZO-12-10P | OM4        | 250µm Pigtails |           | Optimized   |

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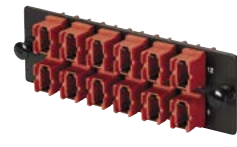
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### Opticom™ MPO Fiber Optic Adapter Panels (FAPs)

- Populated with TIA/EIA-604 FOCIS-5 compliant adapters
- Exceed ANSI/TIA-568.3-D requirements
- Designed for multimode or singlemode MPO connectors, patch cords, or cable assemblies
- Snap quickly into the front of all Opticom™ QuickNet™ Components
- Can be used with Opticom™ Zero RU Cable Management Solutions and QuickNet™ Harness Cable Assemblies to facilitate connection to the active equipment



FAPH0412BLMPO



FAPH1224RDMPO

| Part Number                                     | No. of Adapters | Adapter Type | Polarity                  | Color         | Orientation |
|---|-----------------|--------------|---------------------------|---------------|-------------|
| <b>MPO Opticom™ Fiber Adapter Panels (FAPs)</b> |                 |              |                           |               |             |
| FAPH0412BLMPO                                   | 4               | 12f MPO      | Method A, Key-Up/Key-Down | Black         | Horizontal  |
| FAPH0612BLMPO                                   | 6               |              |                           |               |             |
| FAPH0812BLMPO                                   | 8               |              |                           |               |             |
| FAPH1212BLMPO                                   | 12              |              |                           |               |             |
| FAPH0412CGMPO                                   | 4               |              |                           |               |             |
| FAPH0612CGMPO                                   | 6               |              |                           |               |             |
| FAPH0812CGMPO                                   | 8               | 24f MPO      | Method B, Key-Up/Key-Up   | Charcoal Gray | Horizontal  |
| FAPH1212CGMPO                                   | 12              |              |                           |               |             |
| FAPH0424RDMPO                                   | 4               |              |                           |               |             |
| FAPH0624RDMPO                                   | 6               |              |                           |               |             |
| FAPH0824RDMPO                                   | 8               |              |                           |               |             |
| FAPH1224RDMPO                                   | 12              |              |                           |               |             |

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## Opticom™ Fiber Adapter Panels (FAPs)

- Populated with TIA/EIA-604 FOCIS-10 or TIA/EIA-604 FOCIS-3 compatible adapters
- Exceed ANSI/TIA-568.3-D requirements
- Adapter housing colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Snap quickly into the front of all Opticom™ Components



FAP12WAQDLCZ



FAP6WAQDSCZ

| Part Number                        | No. of Ports | Adapter Type      | Color | Split Sleeve | Fibers |
|------------------------------------|--------------|-------------------|-------|--------------|--------|
| <b>LC Fiber Adapter Panels</b>     |              |                   |       |              |        |
| <b>BEST SELLER</b><br>FAP6WAQDLCZ  | 6            | Duplex LC         | Aqua  | Zirconia     | 12     |
| FAP8WAQDLCZ                        | 8            |                   |       |              | 16     |
| <b>BEST SELLER</b><br>FAP12WAQDLCZ | 12           |                   |       |              | 24     |
| <b>BEST SELLER</b><br>FAP6WBUDLCZ  | 6            |                   | Blue  |              | 12     |
| FAP8WBUDLCZ                        | 8            |                   |       |              | 16     |
| <b>BEST SELLER</b><br>FAP12WBUDLCZ | 12           |                   |       |              | 24     |
| <b>BEST SELLER</b><br>FAP6WAGDLCZ  | 6            | Duplex LC/<br>APC | Green | 12           |        |
| FAP12WAGDLCZ                       | 12           |                   |       | 24           |        |
| <b>BEST SELLER</b><br>FAP12WBULCZ  | 12           | Simplex LC        | Blue  |              | 24     |
| <b>SC Fiber Adapter Panels</b>     |              |                   |       |              |        |
| FAP3WAQDSCZ                        | 3            | Duplex SC         | Aqua  | Zirconia     | 6      |
| FAP6WAQDSCZ                        | 6            |                   |       |              | 12     |
| FAP3WBUDSCZ                        | 3            |                   | Blue  |              | 6      |
| FAP6WBUDSCZ                        | 6            |                   |       |              | 12     |
| FAP3WAGDSCZ                        | 3            | Duplex<br>SC/APC  | Green |              | 6      |
| FAP6WAGDSCZ                        | 6            |                   |       |              | 12     |
| FAP12WBUSCZ                        | 12           | Simplex SC        | Blue  |              | 24     |
| FAP12WAGSCZ                        | 12           | Simplex<br>SC/APC | Green |              |        |

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| Part Number   | Description  |
|---------------|--|
| FAPB          | Blank fiber adapter panel.   |
| FLEX-OPTI-1RU | HD Flex™ Bracket Adapter for Opticom™ Enclosures houses 2 HD Flex™ Cassettes.  |
| FOSMF         | Splice module holds and protects up to 24 fusion splices for use with Panduit Opticom™ Enclosures (see page C.17).               |
| FOSMH1U       | Splice module holder 1 RU holds up to 4 FOSM splice modules for use with Panduit FCE1U or FCE1UA.                                |
| FOSMH2U       | Splice module holder 2 RU holds up to 8 FOSM splice modules for use with Panduit FCE2U.  |
| FOSMH4U       | Splice module holder 4 RU holds up to 12 FOSM splice modules for use with Panduit FCE4U.   |
| FST24         | Fiber splice tray kit for up to 24 mechanical or fusion splices or 144 ribbon fusion splices for use in Panduit FRME3 and FRME4. |
| FST6          | Fiber splice tray kit for up to 12 mechanical or fusion splices for use in Panduit FMT, FWME4 and FWME8.                         |
| FSTHE         | Stacking holder for FST6 holds and secures up to 4 FST6.   |
| FSTK          | Fiber splice tray kit for up to 6 mechanical or fusion splices for use in Panduit FWME2.   |
| FSTHS         | Stacking holder for FSTK holds and secures up to 2 FSTK.   |
| FSC24         | Fiber splice chip holder accommodates and protects up to 24 fusion splices for use with any Panduit™ Opticom™ Enclosure.         |

### QuickNet™ Patch Panels and Accessories

- Accept QuickNet™ Copper Cable Assemblies and QuickNet™ SFQ Series MTP Fiber Optic Cassettes which snap in and out with one hand
- High-density patch panels conserve valuable rack space
- Angled patch panels facilitate proper bend radius control and minimize the need for horizontal cable managers
- All metal patch panels accept shielded cassettes, no additional grounding kit required
- Pre-printed numbers above each port for easy identification
- Mount to standard EIA 19" racks or 23" racks with optional extender brackets



| Part Number                              | Ports | No. of Rack Spaces | Style   |
|--|-------|--------------------|---------|
| <b>QuickNet™ Unshielded Patch Panels</b> |       |                    |         |
| QPP24**                                  | 24    | 1                  | Flat    |
| QPP48HD**                                | 48    |                    |         |
| QAPP24**                                 | 24    |                    | Angled* |
| QAPP48HD**                               | 48    |                    |         |
| <b>QuickNet™ Shielded Patch Panels</b>   |       |                    |         |
| QSP24**                                  | 24    | 1                  | Flat    |
| QSP48HD**                                | 48    |                    |         |
| QASP24**                                 | 24    |                    | Angled* |
| QASP48HD**                               | 48    |                    |         |

\*\*Colors available: Black (BL), White (WH).

## QuickNet™ Patch Panels and Accessories



### QuickNet™ Accessories

| Part Number | Part Description   |
|-------------|--|
| QPPABL      | QuickNet™ Patch Panel Adapter which accepts Mini-Com™ Modules for UTP, fiber optic, and audio/visual applications. |
| QPPBBL      | QuickNet™ Patch Panel Blank reserves space for future use and promotes proper airflow and cooling.                 |

## QuickNet™ SFQ MPO Fiber Optic Cassettes

- Compatible with QuickNet™ patch panels for up to 96 LC fiber connections in a single RU
- Low insertion loss of 0.75 dB for standard cassettes, 0.50 dB for optimized cassettes, and 0.35 dB for ultra cassettes
- Significantly reduce installation time and labor by eliminating field connector terminations
- Connect together with high-density female MPO cable assemblies/trunks to quickly deploy DC network segments
- Factory terminated, assembled and 100% tested
- Performance test data provided with each cassette
- Lifetime traceability of test data to a QC number on each fiber cassette



FQXO-12-10U

| Part Number  | Fiber Type | Fiber Count | No. of MPOs | No. of Duplex LCs | Performance | Polarity                         |                |                         |
|--------------|------------|-------------|-------------|-------------------|-------------|----------------------------------|----------------|-------------------------|
| FQ9N-12-10AF | OS2        | 12          | 1x12f       | 6                 | Standard    | Modified Method A (Pair Flipped) |                |                         |
| FQ9N-12-10AS |            |             |             |                   |             | Method A                         |                |                         |
| FQ9N-12-10U  |            |             |             |                   |             | Universal                        |                |                         |
| FQSA-12-10U  | OM4+       |             |             |                   |             | Ultra                            | Method B End 1 |                         |
| FQWA-12-10B1 |            |             |             |                   |             |                                  | Method B End 2 |                         |
| FQWA-12-10B2 | OM5        |             |             |                   |             | Optimized                        | Universal      |                         |
| FQXO-12-10U  | OM3        |             |             |                   | Standard    | Modified Method A (Pair Flipped) | Method A       |                         |
| FQZN-12-10AF | OM4        |             |             |                   |             |                                  | Optimized      | Method A (Pair Flipped) |
| FQZN-12-10AS |            |             |             |                   |             |                                  |                | Method A                |
| FQZO-12-10AF |            |             |             |                   |             | Universal                        |                |                         |
| FQZO-12-10AS |            |             |             |                   |             |                                  |                |                         |
| FQZO-12-10U  |            |             |             |                   |             |                                  |                |                         |

## QuickNet™ SFQ 4-to-1 Conversion Cassettes



FQ39N-08-10A

| Part Number                        | Fiber Type | Fiber Count | Port Count | No. of MPOs | No. of Duplex Connectors | Performance |
|------------------------------------|------------|-------------|------------|-------------|--------------------------|-------------|
| <b>BEST SELLER</b><br>FQ3ZO-08-10B | OM4        | 8           | 4          | 1x12f       | 4                        | Optimized   |
| <b>BEST SELLER</b><br>FQ39N-08-10A | OS2        |             |            |             |                          | Standard    |

### QuickNet™ MPO Fiber Adapter Panels (FAPs)

- Factory assembled, and 100% tested
- Compatible with QuickNet™ Patch Panels
- Adapter housing colors follow ANSI/TIA-568.3-D suggested color identification scheme
- Significantly reduce installation time and labor by eliminating field connector terminations



FQMAP45BL



FQMAP65BL



FQMAP85RD

| Part Number                                      | No. of Adapters | Adapter Type | Polarity                      | Color         |
|--|-----------------|--------------|-------------------------------|---------------|
| <b>QuickNet™ MPO Fiber Adapter Panels (FAPs)</b> |                 |              |                               |               |
| FQMAP45BL  | 4               | 12f MPO      | Method A, Key-Up/<br>Key-Down | Black         |
| FQMAP65BL  | 6               |              |                               |               |
| FQMAP85BL  | 8               |              |                               |               |
| FQMAP46CG  | 4               | 12f MPO      | Method B, Key-Up/<br>Key-Up   | Charcoal Gray |
| FQMAP66CG  | 6               |              |                               |               |
| FQMAP86CG  | 8               |              |                               |               |
| FQMAP45RD  | 4               | 24f MPO      | Method A, Key-Up/<br>Key-Down | Red           |
| FQMAP65RD  | 6               |              |                               |               |
| FQMAP85RD  | 8               |              |                               |               |

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QPPABL



QPPBBL



FQCRCM

| Part Number                  | Description  |
|------------------------------|--|
| <b>QuickNet™ Accessories</b> |  |
| QPPABL                       | QuickNet™ Patch Panel Adapter which accepts Mini-Com™ Modules facilitating the use of fiber, copper, and A/V in a single RU. |
| QPPBBL                       | QuickNet™ Patch Panel Blank reserves space for future use and promotes proper airflow and cooling.                           |
| FQCRCM                       | QuickNet™ Cassette Rear Cable Manager  |

## Fiber Optic Interconnect Assemblies

- PanMPO™ Multimode and MPO Singlemode Interconnect Cable Assemblies are pre-terminated and 100% factory tested
- Test results are provided with each assembly
- The 3.0mm round interconnect cable provides high flexibility and tight bend radius for easy installation and cable management
- The PanMPO™ Connector allows rapid gender and polarity change in the field
- Meets or exceeds ANSI/TIA-568.3-D and TIA/EIA-604 (FOCIS-5)
- RoHS Compliant

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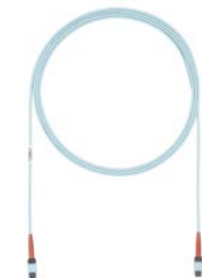


FXTRL7N7NBNM003



F98RLGNGNANM003

| Part Number                         | Fiber Type | Fiber Count | Connector Type                         | Performance/ Polarity  | Length   |
|-------------------------------------|------------|-------------|--|------------------------|----------|
| <b>8 and 12 Fiber Interconnects</b> |            |             |  |                        |          |
| FRXTL77X001M003                     | OM3        | 12          | 12f Female PanMPO to 12f Female PanMPO | Method B/ Optimized IL | 3 meters |
| FRZTL77X001M003                     | OM4        | 12          | 12f Female PanMPO to 12f Female PanMPO | Method B/ Optimized IL |          |
| FRWTL77X001M003                     | OM5        |             |  | Method A/Ultra IL      |          |
| FR98LJJA001M003                     | OS2        | 8           | 8f Female MPO to 8f Female MPO         | Method A/ Standard IL  |          |
| FR9TL77A001M003                     |            | 12          | 12f Female MPO to 12f Female MPO       |                        |          |



FXURLENENXNM003



F9URLENENANM003


| Part Number                   | Fiber Type | Fiber Count | Connector Type                   | Performance/ Polarity  | Length m |
|-------------------------------|------------|-------------|----------------------------------|------------------------|----------|
| <b>24 Fiber Interconnects</b> |            |             |                                  |                        |          |
| FRXUL55X002M003               | OM3        | 24          | 24f Female MPO to 24f Female MPO | Method A/ Optimized IL | 3        |
| FRZUL55X002M003               | OM4        |             |                                  | Method A/ Standard IL  |          |
| FR9UL55X002M003               | OS2        |             |                                  | Method A/ Standard IL  |          |



### Active Optical Cable (AOC) Assemblies


- SFF-8419, SFF-8431, SFF-8432, SFF-8472, SFF-8636, SFF-8661, SFF-8679 compliant, so they are compatible with all active equipment with MSA compliant ports
- Small diameter cable, 3mm PVC rated jacket
- Can be used in a variety of applications including Leaf to Spine Switches and End of Row / Top of Rack Switch to Server
- Fiber features a smaller cable diameter for high density applications

#### SFP28 to SFP28 Assemblies




| Part Number     | Fiber Type | Data Rate | Color | Length m***   |
|-----------------|------------|-----------|-------|---|
| AX23NS2S2AQM*** | OM3        | 25G       | Aqua  | 1 (001), 2 (002), 3 (003), 5 (005), 7 (007), 10 (010), 15 (015), 20 (020), 25 (025), 30 (030) |

#### SFP+ to SFP+ Assemblies




| Part Number     | Fiber Type | Data Rate | Color | Length m***   |
|-----------------|------------|-----------|-------|---|
| AX23NSPSPAQM*** | OM3        | 10G       | Aqua  | 1 (001), 2 (002), 3 (003), 5 (005), 7 (007), 10 (010), 15 (015), 20 (020), 25 (025), 30 (030) |

#### QSFP+ to QSFP+ Assemblies




| Part Number    | Fiber Type | Data Rate | Color | Length m***   |
|----------------|------------|-----------|-------|---|
| AX83NQPPAQM*** | OM3        | 40G       | Aqua  | 1 (001), 2 (002), 3 (003), 5 (005), 7 (007), 10 (010), 15 (015), 20 (020), 25 (025), 30 (030) |

#### QSFP28 to QSFP28 Assemblies




| Part Number    | Fiber Type | Fiber Count | Performance/ Polarity | Length m***   |
|----------------|------------|-------------|-----------------------|---|
| AX83Q2Q2AQM*** | OM4        | 100G        | Aqua                  | 1 (001), 2 (002), 3 (003), 5 (005), 7 (007), 10 (010), 15 (015), 20 (020), 25 (025), 30 (030) |

#### QSFP+ to SFP+ Breakouts



| Part Number     | Fiber Type | Fiber Count | Performance/ Polarity | Length m***   |
|-----------------|------------|-------------|-----------------------|---|
| AX83NQPSPAQM*** | OM3        | 40-4x10G    | Aqua                  | 1 (001), 2 (002), 3 (003), 5 (005), 7 (007), 10 (010), 15 (015), 20 (020), 25 (025), 30 (030) |

#### QSFP28 to SFP28 Breakouts



| Part Number     | Fiber Type | Fiber Count | Performance/ Polarity | Length m***   |
|-----------------|------------|-------------|-----------------------|---|
| AZ83NQ2S2AQM*** | OM4        | 100-4x25G   | Aqua                  | 1 (001), 2 (002), 3 (003), 5 (005), 7 (007), 10 (010), 15 (015), 20 (020), 25 (025), 30 (030) |

## Fiber Optic Trunk Cable Assemblies

- Small Diameter Trunk Cable Assemblies allow for rapid deployment of high-density permanent links
- Optimize cable routing requirements to ensure efficient use of pathway space
- Significantly reduce installation time and cost
- 100% factory tested
- Test results are provided with each trunk
- The PanMPO™ Connector allows for rapid gender and polarity change in the field
- ISO/IEC 11801, ANSI/TIA-568.3-D, TIA/EIA-604 (FOCIS-5), GR-409-CORE, ANSI/ICEA S-83-596-2016
- RoHS Compliant
- Standard 1 meter breakout length

## HD Flex™ Indoor Small Diameter Trunks



FYZTL77Y001M003

| Part Number     | Fiber Type | Fiber Count | Connector Type   | Flame Rating                  | Polarity   | Performance  | Pulling Eye       | Length, m |
|-----------------|------------|-------------|--|-------------------------------|------------|--------------|-------------------|-----------|
| FY9TL77A001M003 | OS2        | 12          | PanMPO Female with 1m breakout to PanMPO Female with 1m breakout | Low Smoke Zero Halogen (LSZH) | Polarity A | Standard IL  | Pulling Eye End A | 3         |
| FY9UL77A001M003 |            | 24          |  |                               |            |              |                   |           |
| FY9WL77A001M003 |            | 48          |  |                               |            |              |                   |           |
| FYXTL77Y001M003 | OM3        | 12          |  |                               | Polarity B | Optimized IL |                   |           |
| FYXUL77Y001M003 |            | 24          |  |                               |            |              |                   |           |
| FYXWL77Y001M003 |            | 48          |  |                               |            |              |                   |           |
| FYZTL77Y001M003 | OM4        | 12          |  |                               |            |              |                   |           |
| FYZUL77Y001M003 |            | 24          |  |                               |            |              |                   |           |
| FYZWL77Y001M003 |            | 48          |  |                               |            |              |                   |           |

## 12 Fiber Indoor Trunk Pigtails



F91BN3NNNSNM001

| Part Number     | Fiber Type | Connector Type (with 18-inch breakout) | Performance | Pulling Eye    | Length m |
|-----------------|------------|--|-------------|----------------|----------|
| F91BN3NNNSNM001 | OS2        | LC Simplex to Pigtail                  | Standard IL | No Pulling Eye | 1        |
| FZ1BN3NNNSNM001 | OM4        | LC Simplex to Pigtail                  |             |                |          |




**Like what you see...  
and want more?**

For more Fiber Trunk options, visit  
[www.panduit.com/configure-fiber-trunk](http://www.panduit.com/configure-fiber-trunk).

### Fiber Optic Patch Cord and Pigtail Assemblies

- Fiber optic patch cords and pigtails provide interconnect and cross-connect of applications over installations in entrance facilities, telecommunications rooms, data centers and at the desk
- Patch cords support network applications in main, horizontal and equipment distribution areas
- Pre-terminated fiber optic pigtails support fusion splice field termination applications. Fiber optic patch cords and pigtails are available in OM4, OM3, or OS2 fiber types
- Meets or exceeds ISO/IEC 11801, ANSI/TIA-568.3-D, TIA/EIA-604 (FOCIS-3 and FOCIS-10)
- Restriction of Hazardous Substances (RoHS) Compliance: All patch cord components meet the requirements of Directive 2002/95/EC

### Zip Cords



| Part Number                           | Fiber Type | Connector Type                 | Fiber Count | Jacket mm | Flame Rating                  | Performance | Length m |
|---------------------------------------|------------|--------------------------------|-------------|-----------|-------------------------------|-------------|----------|
| <b>BEST SELLER</b><br>FX2ELLNLNSNM001 | OM3        | LC Duplex to LC Duplex         | 2           | 1.6       | Low Smoke Zero Halogen (LSZH) | Standard IL | 1        |
| FX2ELLNSNSNM001                       |            | LC Duplex to SC Duplex         |             | 3         |                               |             |          |
| FX23LSNSNSNM001                       |            | SC Duplex to SC Duplex         |             |           |                               |             |          |
| FZ2ELLNLNSNM001                       | OM4        | LC Duplex to LC Duplex         |             | 1.6       |                               |             |          |
| FZ2ELLNSNSNM001                       |            | LC Duplex to SC Duplex         |             | 3         |                               |             |          |
| <b>BEST SELLER</b><br>FZ23LSNSNSNM001 |            | SC Duplex to SC Duplex         |             |           |                               |             |          |
| <b>BEST SELLER</b><br>F92ELLNLNSNM001 | OS2        | LC Duplex to LC Duplex         | 2           | 1.6       |                               |             |          |
| F92ELLNSNSNM001                       |            | LC Duplex to SC Duplex         |             |           |                               |             |          |
| F92ELB1LNSNM001                       |            | LC/APC to LC Duplex            |             |           |                               |             |          |
| F92ELB1B1SNM001                       |            | LC/APC to LC/APC               |             |           |                               |             |          |
| F92ELB1SNSNM001                       |            | LC/APC to SC Duplex            |             |           |                               |             |          |
| F923LSNSNSNM001                       |            | SC Duplex to SC Duplex         |             | 3         |                               |             |          |
| F923LANSNSNM001                       |            | SC/APC Duplex to SC Duplex     |             |           |                               |             |          |
| F923LANANSNM001                       |            | SC/APC Duplex to SC/APC Duplex |             |           |                               |             |          |
| F92ELANB1SNM001                       |            | SC/APC to LC/APC               |             | 1.6       |                               |             |          |

\*All patch cords available in lengths 1 meter through 50 meters.



**Like what you see...  
and want more?**

For more Fiber Patch Cord options, visit  
[www.panduit.com/configure-fiber-patch-cord](http://www.panduit.com/configure-fiber-patch-cord).

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### Uniboot Patch Cords



| Part Number     | Fiber Type | Connector Type           | Fiber Count                      | Jacket mm | Flame Rating | Performance  | Length m* |
|-----------------|------------|--------------------------|----------------------------------|-----------|--------------|--------------|-----------|
| FZ2RLU1U1ONM001 | OM4        | LC Uniboot to LC Uniboot | 2                                | 2         | LSZH         | Optimized IL | 1         |
| F92RLU1U1ONM001 | OS2        |                          |                                  |           |              |              |           |
| F92RLU2U2ONM001 |            |                          | LC/APC Uniboot to LC/APC Uniboot |           |              |              |           |

\*All patch cords available in lengths 1 meter through 50 meters.

### CS Connector Patch Cords



FZ2RPZLNZNONM001

| Part Number      | Fiber Type | Connector Type | Fiber Count | Jacket mm | Flame Rating | Performance  | Length m* |
|------------------|------------|----------------|-------------|-----------|--------------|--------------|-----------|
| FZ2RLZLNZNONM001 | OM4        | CS to CS       | 2           | 2         | LSZH         | Optimized IL | 1         |
| F92RLZLNZNONM001 | OS2        |                |             |           |              |              |           |

\*All patch cords available in lengths 1 meter through 50 meters.

**Like what you see...and want more?**

For more Fiber Patch Cord options, visit [www.panduit.com/configure-fiber-patch-cord](http://www.panduit.com/configure-fiber-patch-cord).

### Pigtails



F91BN1NNSNM001



F9TBN1NNSZM001

| Part Number     | Fiber Type | Connector Type        | Fiber Count | Jacket                | Flame Rating | Performance | Length m |
|-----------------|------------|-----------------------|-------------|-----------------------|--------------|-------------|----------|
| FX1BN1NNSNM001  | OM3        | LC to Pigtail         | 1           | No Jacket             | Not Rated    | Standard IL | 1        |
| FXTBN1NNSZM001  |            |                       | 12          |                       |              |             |          |
| FX1BN3NNSNM001  |            | SC Simplex to Pigtail | 1           |                       |              |             |          |
| FZ1BN1NNSNM001  | OM4        | LC to Pigtail         | 1           |                       |              |             |          |
| FZTBN1NNSZM001  |            |                       | 12          |                       |              |             |          |
| FZ1BN3NNSNM001  |            | SC Simplex to Pigtail | 1           |                       |              |             |          |
| F91BN1NNSNM001  | OS2        | LC to Pigtail         | 1           |                       |              |             | 2        |
| F91BN1NNSNM002  |            |                       | 2           |                       |              |             |          |
| F91BN1NNSNM003  |            |                       | 3           |                       |              |             |          |
| F96BN1NNSZM001  |            |                       | 6           |                       |              |             |          |
| F9TBN1NNSZM001  |            | 12                    |             |                       |              |             |          |
| F91BNB1NNSNM001 |            | LC/APC to Pigtail     | 1           |                       |              |             | 1        |
| F91BN3NNSNM001  |            |                       |             | SC Simplex to Pigtail |              |             |          |
| F91BNANNNSNM001 |            |                       |             | SC/APC to Pigtail     |              |             |          |

**Like what you see...and want more?**

For more Fiber Pigtail options, visit [www.panduit.com/configure-fiber-pigtail](http://www.panduit.com/configure-fiber-pigtail).

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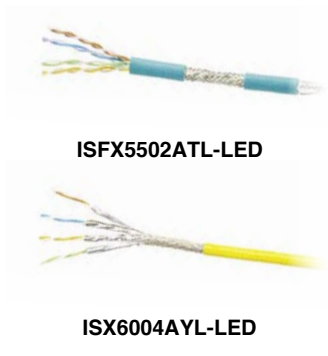
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### IndustrialNet™ Copper Cable

- Cable has been tested by an independent laboratory and complies with the electrical standard requirements of ISO11801 and ANSI/TIA-568.2-D
- UL Approved
- Industrial rated cable for reliable performance in harsh environments
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap
- Packaged on a reel



| Part Number     | Performance Level | AWG | Flame Rating                  | EuroClass | Type           | Color  | Length |
|-----------------|-------------------|-----|-------------------------------|-----------|----------------|--------|--------|
| ISX6004ARD-LED  | Category 6        | 24  | Flame Retardant, Halogen Free | Eca       | 4-Pair, S/FTP  | Red    | 500m   |
| ISX6004AYL-LED  |                   |     |                               |           |                | Yellow |        |
| IFC6C04BBL-CEG  | Category 5e       | 24  | CM UL1685                     | Fca       | 4-Pair, F/UTP  | Black  | 1000ft |
| ISFX5502ATL-LED |                   |     | Flame Retardant, Halogen Free | Eca       | 4-Pair, SF/UTP | Teal   | 500m   |

### Indoor/Outdoor Dielectric Double Jacketed (DDJ) Fiber Cable



| Part Number | Performance Level | Fiber Count | Description                          |
|-------------|-------------------|-------------|--------------------------------------|
| FOJDZ12     | OM4               | 12          | 50µm, Indoor/Outdoor DDJ cable, LSZH |
| FSJD912     | OS2               |             | 9µm, Indoor/Outdoor DDJ cable, LSZH  |

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## IndustrialNet™ RJ45 Copper Patch Cords

- Patch cords have been tested by an independent laboratory and comply with the electrical standard requirements of IEC 60603-7 and ANSI/TIA-568.2-D
- Variant 1 bulkhead patch cords meet IP67 when mated to IP67 IndustrialNet™ Connectors
- Industrial rated patch cord for reliable performance in harsh environments
- Category 5e 600 V rated patch cords provide reliable performance for panel or on-machine applications when space is shared with 600 V high voltage power cables



ISTPSP5MBL



ISTPHCH3MTL

| Part Number                    | Performance Level | AWG | Description  | Color | Length m |
|--------------------------------|-------------------|-----|--|-------|----------|
| ISTPH6X0.3MTL                  | Category 6A       | 26  | Shielded, Stranded, SF/UTP, 600 V Patch Cord, RJ45 Plug to RJ45 Plug | Teal  | 0.3      |
| ISTPH6X1MTL                    |                   |     |  |       | 1        |
| ISTP6X2MBL                     |                   |     |  | Black | 2        |
| ISTPH6X2MTL                    | Teal              |     |  |       |          |
| ISTPSP5MBL                     | Category 6        |     | Shielded, Stranded, S/UTP Patch Cord. Includes Dust Caps             | Black | 5        |
| ISTPHCH0.6MTL                  | Category 5e       | 24  | Shielded, Stranded, SF/UTP, 600 V Patch Cord, RJ45 Plug to RJ45 Plug | Teal  | 0.6      |
| <b>BEST SELLER</b> ISTPHCH1MTL |                   |     |  |       | 1        |
| <b>BEST SELLER</b> ISTPHCH2MTL |                   |     |  |       | 2        |
| ISTPHCH3MTL                    |                   |     |  |       | 3        |
| <b>BEST SELLER</b> ISTPHCH5MTL |                   |     |  |       | 5        |
| ISTPHCH10MTL                   |                   |     |  |       | 10       |

## IndustrialNet™ Copper Connectors

- IP/NEMA/UL/CE rated to ensure reliable performance in harsh factory environments
- Extended temperature range provides durable connections in extreme conditions
- Factory terminated design assures reliability and saves time
- Optional RJ45 connector speeds deployment



ICAM12XRJS



ISPS6A88MFA



IAEBH6XS



MPI588T

| Part Number  | Performance Level | Description   |
|--|-------------------|---|
| <b>M12 Connectors</b>                                      |                   |   |
| ICAM12XRJS   | Category 6A       | M12 X-Code Shielded to RJ45 Industrial Adapter, Panel Mount.            |
| ICAM12X90RJS   |                   | M12 X-Code Shielded to RJ45 Industrial Adapter, 90° Angle, Panel Mount. |
| ISPS6A88MFA  |                   | M12 X-Code Shielded Field Terminable Connector, Male.                   |
| ISPS5E44MFA  | Category 5e       | M12 D-Code Shielded Field Terminable Connector, Male.                   |
| ICAM12DRJS   |                   | M12 D-Code Shielded to RJ45 Industrial Adapter, Panel Mount.            |
| <b>Industrial Bulkhead Connector with Protective Cover</b> |                   |   |
| IAEBH6X  | Category 6A       | Variant 1 IP67 RJ45 Connector.  |
| IAEBH6XS   |                   | Shielded Variant 1 IP67 RJ45 Connector.                                 |
| IAEBH6   | Category 6        | Variant 1 IP67 RJ45 Connector.  |
| IAEBH6S  |                   | Shielded Variant 1 IP67 RJ45 Connector.                                 |
| <b>BEST SELLER</b> MPI588T                                 | Category 5e       | Variant 1 IP67 Modular Plug.  |
| MPSI588T   |                   | Shielded Variant 1 IP67 Modular Plug.                                   |
| IAEBH5E  |                   | Variant 1 IP67 RJ45 Connector.  |
| IAEBH5ES   |                   | Shielded Variant 1 IP67 RJ45 Connector.                                 |

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## IndustrialNet™ Copper Connectors (continued)

- IP/NEMA/UL/CE rated to ensure reliable performance in harsh factory environments
- Factory terminated design assures reliability and saves time
- Extended temperature range provides durable connections in extreme conditions
- Optional RJ45 connector speeds deployment



IAEBHC5E



IAEBHUSBAA

| Part Number  | Performance Level | Description                             |
|--|-------------------|---|
| <b>Industrial Bulkhead Coupler with Protective Cover</b> |                   |   |
| IAEBHC6XS  | Category 6A       | Variant 1 IP67 RJ45 Coupler.            |
| IAEBHC6  | Category 6        |   |
| <b>BEST SELLER</b><br>IAEBHC5E                           | Category 5e       | Shielded Variant 1 IP67 RJ45 Connector. |
| IAEBHC5ES  |                   |   |

| Part Number                     | Description   |
|---------------------------------|---|
| <b>Mini-Com™ Coupler Module</b> |   |
| IAEBHUSBAA                      | USB 2.0 Variant 1 IP67 Female A to Female A Coupler |

## IndustrialNet™ Overmolded Cordsets

- IP/NEMA/UL/CE rated to ensure reliable performance in harsh factory environments
- Factory terminated design assures reliability and saves time
- TPE/TPU jackets protect cable, providing increased reliability in high-flex applications
- Extended temperature range provides durable connections in extreme conditions
- Rated to 10 million flex cycles
- Optional RJ45 connector speeds deployment



ICA3E13P2BL1M



ICD11T1TL1M



ICD22T1NTL1M

| Part Number   | Pin | Termination End 1  | Termination End 2    | Jacket             | Shielding  | Color |
|---------------|-----|--------------------|----------------------|--------------------|------------|-------|
| <b>A-Code</b> |     |                    |                      |                    |            |       |
| ICA3E13P2BL1M | 3   | M8 Male Connector  | M8 Female Connector  | Polyurethane (PUR) | Unshielded | Black |
| ICA4E13P2BL1M | 4   |                    | M12 Female Connector |                    |            |       |
| ICA4T13P2BL1M | 4   | M12 Male Connector | M12 Female Connector |                    |            |       |
| ICA5T13P2BL1M | 5   |                    | M12 Female Connector |                    |            |       |

### D-Code, Category 5e, 600 V

|              |   |                        |                      |                               |          |      |
|--------------|---|------------------------|----------------------|-------------------------------|----------|------|
| ICD11T2NTL1M | 4 | M12 Male Connector     | M12 Male Connector   | Thermoplastic Elastomer (TPE) | Shielded | Teal |
| ICD11T1NTL1M |   |                        | M12 Female Connector |                               |          |      |
| ICD12T1NTL1M |   |                        | 90° Male Connector   |                               |          |      |
| ICD13T1NTL1M |   |                        | M12 Female Connector |                               |          |      |
| ICD14T1NTL1M |   | RJ45 Plug              |                      |                               |          |      |
| ICD22T1NTL1M |   | M12 90° Male Connector | 90° Male Connector   |                               |          |      |
| ICD26T1NTL1M |   |                        | 90° Female Connector |                               |          |      |
| ICD44T1NTL1M |   |                        | RJ45 Plug            |                               |          |      |

### IndustrialNet™ Overmolded Cordsets (continued)

| Part Number                       | Pin | Termination End 1  | Termination End 2  | Jacket                        | Shielding | Color |
|-----------------------------------|-----|--------------------|--------------------|-------------------------------|-----------|-------|
| <b>X-Code, Category 6A, 600 V</b> |     |                    |                    |                               |           |       |
| ICX11T1NTL1M                      | 8   | M12 Male Connector | M12 Male Connector | Thermoplastic Elastomer (TPE) | Shielded  | Teal  |
| ICX14T1NTL1M                      |     |                    | RJ45 Plug          |                               |           |       |
| ICX44T1NTL1M                      |     | Female Connector   |                    |                               |           |       |

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### Industrial Accessories

- Modular design for easy DIN rail mounting
- Compact size and low profile saves valuable DIN rail space
- Easy installation - no special tools required
- Include labels for easy moves, adds and changes



CADIN1BL



CDPP8RG



FDME8RG

| Part Number | Description | Color |
|-------------|-------------|-------|
|-------------|-------------|-------|

#### Mini-Com™ DIN Rail Mount Adapter

**BEST SELLER**

|            |  |       |
|------------|--|-------|
| CADIN1BL   | Single-Port DIN Rail Mount Adapter.          | Black |
| CADIN1BL-S | Shielded Single-Port DIN Rail Mount Adapter. |       |

#### IndustrialNet™ DIN Rail Mount Copper Patch Panel

**BEST SELLER**

|           |  |                    |
|-----------|--|--------------------|
| CDPP8RG   | 8-Port Patch Panel, DIN Rail Mount.          | International Gray |
| CDPP8RG-S | Shielded 8-Port Patch Panel, DIN Rail Mount. |                    |

#### IndustrialNet™ DIN Rail Mount Fiber Enclosure

**BEST SELLER**

|         |   |                    |
|---------|---|--------------------|
| FDME8RG | 8-Port Fiber Optic Enclosure, DIN Rail Mount. | International Gray |
|---------|---|--------------------|

#### Fiber Termination Enclosure

|           |   |   |
|-----------|---|---|
| FTE24A1A1 | Pre-Configured 288 Fiber Termination Enclosure, Mild Steel. | - |
|-----------|---|---|



### Pre-Configured Micro Data Center (MDC)

- Pre-configured solution enables fast deployment of servers, storage, and switches for an industrial network
- Dynamic rated version ensures safe transport of IT equipment under typical shipping conditions
- Includes space for future expansion of server, storage, and related patching to allow for increased network capacity without requiring addition to control room footprint
- Bonded structure helps ensure network reliability and prevent equipment failure
- Integrated cable management with bend radius control maintains bandwidth through the network for increased uptime
- Reference architecture provides a physical map of the logical network layer following recommended installation practices to increase reliability



MDC82NN

| Part Number | Height In. (mm) | Width In. (mm) | Depth In. (mm) | Description  | No. of Rack Units | Color      |
|-------------|-----------------|----------------|----------------|--|-------------------|------------|
| MDC79D      | 79.8 (2026)     | 27.6 (700)     | 48.0 (1219.2)  | Dynamic, Single Hinge Perforated Front Door, Split Perforated Rear Doors, Split Side Panels (2), Network Cabling, Patch Panels, Cable Management, Grounding, Casters, Shock Pallet and Ramp.                                       | 42                | Black      |
| MDC82NN     | 78.7 (2000)     |                | 47.2 (1198.9)  | NEMA Type 12, IP55, Single Hinge Front Door with Windowed Glass, Single Hinge Rear Door, Solid Side Panels (2), Side Panel, Network Cabling, Patch Panels, Cable Management, Grounding, and Casters.                               |                   | Light Gray |
| MDC82NL     |                 |                |                | NEMA Type 12, IP55, Single Hinge Front Door with Windowed Glass, Single Hinge Rear Door, Solid Side Panel (1), Side Panel with Cutout for 20k BTU AC (1), Network Cabling, Patch Panels, Cable Management, Grounding, and Casters. |                   |            |

### NEMA 4X Wireless Security Enclosure



NWSE1412G

| Part Number | Height In. (mm) | Width In. (mm) | Depth In. (mm) | Description  | Color |
|-------------|-----------------|----------------|----------------|--|-------|
| NWSE1412G   | 14 (355.6)      | 12 (304.8)     | 6 (152.4)      | Pre-installed, Pre-fabricated Backplane, 4CS-1/2 Electrical Box, Pole Mounting Bracket, 2 NEMA 4X Compression Fittings, Includes UTP Connectivity Kit. | Gray  |

### Wireless Access Point Enclosures

- Accommodates the most popular Wireless Access Points
- Fiberglass construction and aluminum mounting plate allows quick and easy access point installation
- Provisions for padlocks to protect against tampering and theft
- Include pre-configured mounting template and connectivity kit with 2-position outlet box, Mini-Com™ TX6™ PLUS Jack Module, TX6™ PLUS Patch Cord, silicone sealant and grounding cable
- UL 508A Listed, NEMA 4X and IP66 Rated



PZNWE12

| Part Number                              | Connectivity Kit | External Dimensions  | Internal Dimensions  |
|--|------------------|--|--|
| <b>Power over Ethernet Applications</b>  |                  |  |  |
| PZNWE12                                  | UTP              | 13.56" H x 13.47" W x 6.56" D<br>(344.4mm x 342.1mm x 166.6mm) | 11.70" H x 11.70" W x 6.29" D<br>(297.2mm x 297.2mm x 159.8mm) |
| <b>Traditional AC Power Applications</b> |                  |  |  |
| PZNWE14                                  | UTP              | 15.50" H x 13.50" W x 6.25" D<br>(393.7mm x 342.9mm x 158.8mm) | 13.53" H x 11.55" W x 5.94" D<br>(343.7mm x 293.4mm x 150.9mm) |

## Industrial Network Uninterruptible Power Supply (UPS)

- Supports industrial switches during power outages
- Ultracapacitor technology decreases downtime risk by up to 40%\*
- Maintenance-free operation contributes to 50–70% reduced cost of ownership\*
- Non-HazMat
- Remote management with auto alerts works with standard web browsers and EtherNet/IP\*\*
- Easy device monitoring through SNMP v1/V2c/V3
- Wide operating temperature range -40°C to +60°C
- Compact, one-piece design saves 50% or more DIN Rail space compared to similar UPS devices



UPS003LSM UPS00100DC

| Part Number | Description   |
|-------------|---|
| UPS003LSM   | UPS Load Sense Module; Optional Accessory for Use in Dual, Redundant Power Supply Configurations to Monitor Load on Primary Supply. |
| UPS00100DC  | Uninterruptible Power Supply (UPS), 100W; No-Battery, Maintenance-Free with Remote Management; 24-28 VDC In/Out; DIN Rail Mount.    |

\*Compared to battery-based UPS devices.  
 \*\*EtherNet/IP is a trademark of ODVA.

## Network Zone Systems

- Universal design works with most DIN mount industrial Ethernet switches, providing design flexibility
- Pre-configured solution delivers up to 75% faster implementation
- Designed to accept customer supplied switches
- Copper/fiber patch fields and connectivity enable troubleshooting of network connections
- Isolation barrier segregates higher line voltage from lower voltage switch for increased safety
- Bonding provisions and grounding bar ensure path to ground to protect personnel and equipment
- Detailed installation guide provides easy, repeatable design instructions assuring consistency and saving time on the job-site
- UL Type 4/12 or 4X, UL 508A Listed, CE Approved, IP66 Rated



Z22U-S15S



Z23C-S

| Part Number   | Enclosure Material | Downlink Port Connectivity | Included Accessories   | Power Infrastructure                                   |
|---|--------------------|----------------------------|--|--|
| <b>24" x 36" Universal Network Zone; for Two Industrial Switches</b>      |                    |                            |  |  |
| Z23U-S25S   | Mild Steel         | Category 6A STP            | Sixteen Copper Patch Cords and Jacks, Six LC Adapters, Four LC OM3 Patch Cords | Redundant Power Supplies with One Maintenance-Free UPS |
| Z23U-S25  |                    | Category 6 UTP             |  | Redundant Power Supplies with Battery Based UPS        |
| Z23U-S21  |                    |                            |  |  |
| <b>24" x 24" Universal Network Zone; for One Industrial Switch</b>        |                    |                            |  |  |
| Z22U-S15  | Mild Steel         | Category 6 UTP             | Eight Copper Patch Cords and Jacks, Six LC Adapters, Two LC OM3 Patch Cords    | Redundant Power Supplies with One Maintenance-Free UPS |
| Z22U-S15S   |                    | Category 6A STP            |  |  |
| <b>24" x 36" Pre-Configured Network Zone; for Two Industrial Switches</b> |                    |                            |  |  |
| Z23C-S  | Mild Steel         | Category 6 UTP             | Sixteen Copper Patch Cords and Jacks, Six LC adapters, Four LC OM3 Patch Cords | -  |
| <b>24" x 24" Universal Network Zone; for One Industrial Switch</b>        |                    |                            |  |  |
| Z22C-S  | Mild Steel         | Category 6 UTP             | Eight Copper Patch Cords and Jacks, Six LC Adapters, Two LC OM3 Patch Cords    | -  |

Products are also available in stainless steel and shielded connectivity options.

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### Pre-Configured Industrial Distribution Frames

- Engineered to deploy and protect 19" rack mount Ethernet switches in industrial applications
- Pre-configured, wall mount design delivers up to 25% faster implementation
- Defined equipment locations and cable routings incorporate Panduit best practices in connectivity, cable management, wiring and grounding
- Additional back-end space allows for 3X the cooling capacity over typical deployments
- Key-locking handle limits access to authorized personnel for a secure network
- Detailed installation guide provides easy instructions assuring consistency and saving time on the job-site
- UL Type 4/12 or 4X, UL 508A Listed, IP66 Rated



ZDF242430



ZDF48-RA

| Part Number   | Enclosure Material | Included Accessories  | Power Infrastructure                               |
|---|--------------------|---|--|
| <b>12U Industrial Distribution Frame for Two Access or Two Distribution Switches</b>  |                    |   |  |
| ZDF242430   | Mild Steel         | Two 48-Port Patch Panels, Fiber Tray, Fiber Spools, Back Panels, 10" DIN Rail, 30" Length of Duct | -  |
| <b>26U Industrial Distribution Frame for Two Access and Two Distribution Switches</b> |                    |   |  |
| ZDF48-RA  | Mild Steel         | Two 48-Port Patch Panels, Fiber Tray, Fiber Spools, Back Panels, 10" DIN Rail, 30" Length of Duct | Two Duplex Power Receptacles and Four Power Cables |

### Pre-Configured Industrial Distribution Frame With Access Control



ZDF242430DA2

| Part Number  | Enclosure Material | Included Accessories   | Power Infrastructure                           |
|--|--------------------|--|--|
| <b>12U Industrial Distribution Frame with Access Control for Two Access or Two Distribution Switches</b> |                    |  |  |
| ZDF242430DA2   | Mild Steel         | G5 Electronic Swinghandle with Built-In Low Frequency (125kHz) Card Reader | One Intelligent Power Distribution Unit (iPDU) |
| <b>26U Industrial Distribution Frame with Access Control for Two Access or Two Distribution Switches</b> |                    |  |  |
| ZDF48-RADA2  | Mild Steel         | G5 Electronic Swinghandle with Built-In Low Frequency (125kHz) Card Reader | One Intelligent Power Distribution Unit (iPDU) |

### IntraVUE™ Edge Software Appliance



| Part Number | Description  |
|-------------|--|
| PNPIV       | Perpetually licensed appliance. Continuously monitors the status of all devices and switches within the network. Only requires IP configuration on the client network. |

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### Connect and Collaborate: AV Solutions from Atlona

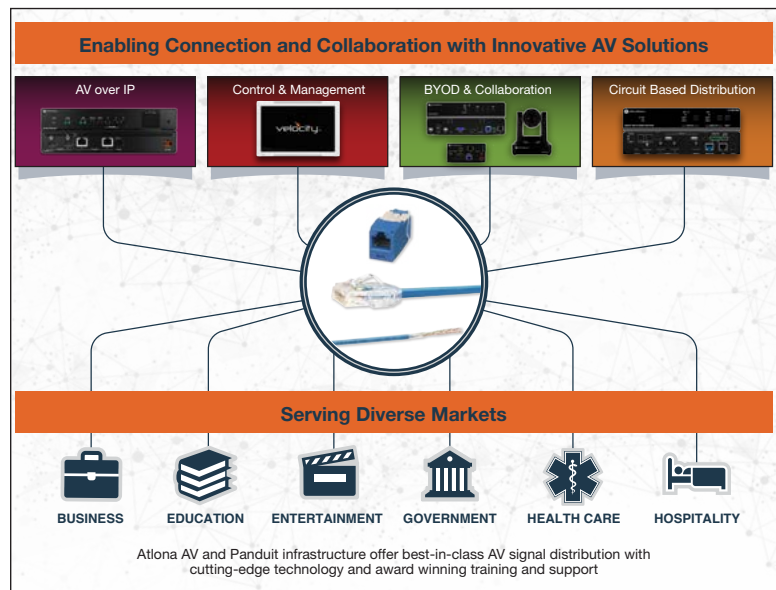
Modern AV systems enable connection and collaboration, driving discussions, improving education, and facilitating conversations within the workplace, school, or medical facility.

Today, Panduit has made it easy to deploy an AV system over structured cabling, with market-leading solutions from a single supplier. Active devices from Atlona, a Panduit company, are the core of the AV system, and are supported by Panduit's robust, reliable infrastructure portfolio to deliver flexible, scalable AV applications.

Whether you're looking at point-to-point AV extension for a classroom, boardroom, or huddle space, or an enterprise-wide AV over IP platform, you will find high quality products that are simple to install and even easier to operate, all backed by an industry-leading warranty and global customer support.

### Common Applications Supported by AV

- Boardroom
- Classroom
- Conference Room
- Digital Signage
- Entertainment Space
- Huddle Space
- Lecture Hall
- Training Room
- Video Conferencing



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## Redefining AV for presentation and collaboration

The **OMEGA™ Series** is a family of switching, extension, and video processing solutions with features and technologies designed specifically for today's meeting and gathering spaces.

They're essential AV system components made for simple plug-and-play operation to deliver a presentation or video conferencing session, and collaborate with team members. An Omega™ Series system can be a straightforward, point-to-point setup from meeting table to display, or anchored by an AV switcher with remote endpoints at display or presenter locations.

The Omega™ Series lets you specify and deliver cost-friendly AV integration solutions for participants to bring in their own devices to present or share content. Omega™ Series also makes it very easy to integrate AV systems for video conferencing with popular platforms such as Zoom, Microsoft® Teams®, and Cisco® Webex®.



### Key Features

- SIMPLE USER OPERATION – connect and present (no button to press)
- UNIVERSAL AV CONNECTIVITY for USB-C\*\*, HDMI\*\*, and DisplayPort
- VIDEO CONFERENCING HUB – USB interfacing for PCs, cameras, speakerphones, and soundbars
- BUILT-IN AUTOMATION with auto-switching, display control, and more
- EASILY ADAPTABLE system designs for a facility, organization, or enterprise
- \*USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum.
- \*\*Atlona incorporates High-Definition Multimedia Interface (HDMI®) technology.



**2x1 Switcher for HDMI and USB-C with USB Hub**

#### AT-OME-MH21

- HDMI and USB-C inputs
- Integrated USB 3.0 hub
- 4K/UHD capability @ 60 Hz / 4:4:4 chroma sampling
- 4K to 1080p downscaling
- Audio de-embedding



**4x2 Matrix Switcher with USB-C**

#### AT-OME-MS42

- HDMI, USB-C, and DisplayPort inputs
- USB-C input for AV, data, and device charging
- HDBaseT and HDMI outputs
- 4K to 1080p downscaling for HDMI output
- USB 2.0 interfacing and extension up to 330 feet (100 meters)
- Audio de-embedding



**5x2 Matrix Switcher with USB and Wireless AV Input**

#### AT-OME-MS52W

- HDMI, USB-C, DisplayPort, and wireless AV inputs
- USB-C input for AV, data, and device charging
- HDBaseT and HDMI outputs
- Native screen casting with AirPlay®, Google® Cast™, and Miracast™
- USB 2.0 interfacing and extension up to 330 feet (100 meters)

## Infrastructure Products to Complete the Solution



PFFY6X04WH-HED



CJS6X88TGY



FPS6X88MTG



STP6X2MBU



CFPL2WHY



CP24BLY

See the complete Omega solution at [www.atlona.com/omega](http://www.atlona.com/omega).

Visit [www.panduit.com](http://www.panduit.com) for additional product information.

For service and technical support, contact [EMEA-CustomerServices@panduit.com](mailto:EMEA-CustomerServices@panduit.com)

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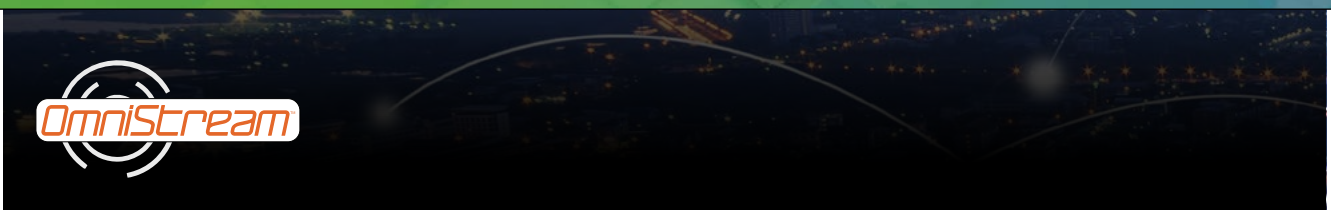
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### Uncompromised AV over IP performance and reliability

Atlona **OmniStream™ AV Over IP platform** is a flexible, scalable, and cost-effective AV distribution platform for meeting rooms, small to medium office buildings, restaurants, retail establishments, corporations, and even a campus or enterprise. OmniStream™ Systems deliver the performance and dependability of traditional AV distribution, plus the unrestricted scalability and cost efficiency of integrating over data networks.

The OmniStream™ AV over IP platform is remarkably simple to set up and manage. An intuitive, powerful network resource with a web-based GUI lets you configure virtual AV routing over the network. Post-integration, managing your OmniStream™ Systems is a breeze with automated monitoring, centralized firmware updating, and much more.

In addition to easy AV routing setup, OmniStream™ Systems can quickly be integrated with many popular, industry-leading managed network switches. Simply upload an Atlona Certified Switch configuration file to your network switch and avoid the tedious process of running through setup menus and options.

#### Key Features

- 1 GB ETHERNET – Works over new or legacy network infrastructure
- PLUG AND PLAY – Ready to go with popular network switches
- FAST SWITCHING – Delivers ultra-fast, <10 ms 1080p switching
- SECURE – Supports IEEE 802.1x, HDCP 2.2, AES-128, and more
- VIDEO WALLS – Simple configuration for multiple display applications



**Single-Channel Networked AV Encoder**

#### AT-OMNI-111

- Single HDMI input
- 4K HDR including Dolby Vision @ 60 Hz
- Supports VR at 2160x1200 @ 90 Hz
- Plug-and-play network switch compatibility
- Network security including IEEE 802.1x
- Local/PoE-powered



**Wallplate Networked AV Encoder**

#### AT-OMNI-111-WP

- Single HDMI input
- Interchangeable black or white trim kits
- 4K HDR including Dolby Vision @ 60 Hz
- Supports VR at 2160x1200 @ 90 Hz
- Plug-and-play network switch compatibility
- Network security including IEEE 802.1x
- PoE-powered



**Single-Channel Networked AV Decoder**

#### AT-OMNI-121

- Single HDMI output
- 4K HDR including Dolby Vision @ 60 Hz
- Supports VR at 2160x1200 @ 90 Hz
- Plug-and-play network switch compatibility
- Network security including IEEE 802.1x
- Audio embedding/de-embedding
- Local/PoE-powered

### Infrastructure Products to Complete the Solution



**PUL6X04WH-HEG**



**CJ6X88TGBU**



**FP6X88MTG**



**UTP6AX7BU**



**CFPL2WHY**



**CPPL24WBLY**

See the complete OmniStream solution at [www.atlona.com/omnistream](http://www.atlona.com/omnistream).

Visit [www.panduit.com](http://www.panduit.com) for additional product information.

For service and technical support, contact [EMEA-CustomerServices@panduit.com](mailto:EMEA-CustomerServices@panduit.com)



## AV control, room scheduling, and asset management

The Atлона **Velocity™ System** is an innovative AV control platform that brings together a unique set of capabilities resulting in easy system scalability and a low cost of ownership.

The Velocity™ IP-based system architecture allows a single, networked processor to serve multiple AV systems simultaneously, leading to overall AV system control efficiency. The Velocity™ IP-based system also saves valuable time with the ability to configure control systems in minutes, and quickly make system modifications free of extensive programming.

In addition to AV control, the Velocity™ IP-based system includes calendar integration for room scheduling touch panels, as well as centrally configuring, deploying, and managing AV devices.

### Key Features

- IP-BASED CONTROL – Touch panel or BYOD control of AV components over the network
- ROOM SCHEDULING – Supports Google Workspace™, Office 365™, Exchange™, and Astra Schedule
- ASSET MANAGEMENT – Configure, deploy, and monitor AV devices
- FAST CONFIGURATION – Configure AV control systems in minutes
- SCALABLE – Host multiple AV systems from a single gateway



**Hardware Gateways**

**AT-VGW-HW-3**  
**AT-VGW-HW-10**  
**AT-VGW-HW-20**

- Server appliance for hosting multiple rooms of AV control
- Three versions available, supporting up to 3, 10, or 20 rooms
- Support hundreds of IP device connections
- Software gateway, **AT-VGW-SW**, available for hosting on IT server infrastructure



**10" Touch Panels**

**AT-VTP-1000VL-BL**  
**AT-VTP-1000VL-WH**

- Designed for room scheduling and AV control
- 10" capacitive touch screen, 1280 x 800 resolution
- Glass and universal one-gang wall mount included
- Surround bezel LED lighting
- Black and white versions available



**5.5" Touch Panels**

**AT-VTP-550-BL**  
**AT-VTP-550-WH**

- Designed for AV control and room scheduling
- 5.5" capacitive touch screen
- 720 x 1280 resolution
- Black and white versions available

## Infrastructure and Power Products to Complete the Solution



**PUL6X04WH-HEG**



**CJ6X88TGBU**



**FP6X88MTG**



**UTP6AX7BU**



**CFPL2WHY**



**P08E16M**

**CPPL24WBLY**

See the complete Velocity solution at [www.atlona.com/velocity](http://www.atlona.com/velocity).

Visit [www.panduit.com](http://www.panduit.com) for additional product information.

For service and technical support, contact [EMEA-CustomerServices@panduit.com](mailto:EMEA-CustomerServices@panduit.com)

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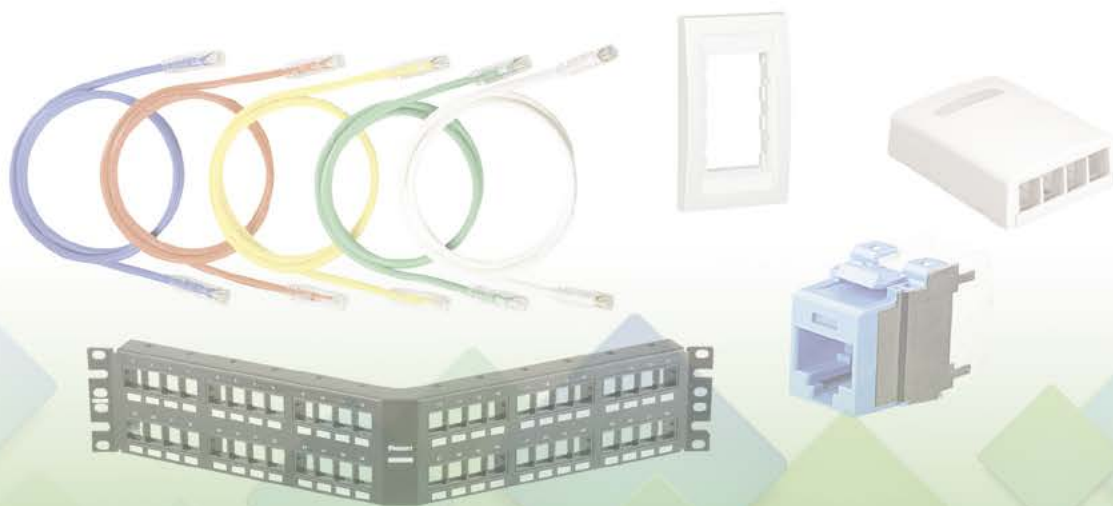
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A. Product Showcase

### NetKey™ Copper Cable

- Exceeds ANSI/TIA-568.2-D and ISO 11801 channel requirements.



NUY6C04BU-CE

| Part Number    | Performance Level | Flame Rating      | EuroClass      | Packaging          | Construction, AWG | Color | Length, m |
|----------------|-------------------|-------------------|----------------|--------------------|-------------------|-------|-----------|
| NUL6X04BU-VEG  | Category 6A       | LSZH-1, LSZH-3-22 | Dca-s2-d2-a1   | Reel               | U/UTP, 23         | Blue  | 305       |
| NUL6X04BU-HEG  |                   | LSZH-1            |                |                    |                   |       |           |
| NUY6X04BU-HEG  |                   | —                 | Cca-s1a-d1-a1  |                    |                   |       |           |
| NFFY6X04BU-HED |                   | —                 | Cca-s1-d0-a1   |                    | F/FTP, 23         |       | 500       |
| NUC6C04BU-CE   | Category 6        | CM, LSZH-1        | Eca            | Easy Payout Carton | U/UTP, 24         | Blue  | 305       |
| NUL6C04BU-VEG  |                   | LSZH-1            | Dca-s2-d2-a1   |                    |                   |       |           |
| NUL6CR04BU-CE  |                   | CM, LSZH-1        | Eca            |                    |                   |       |           |
| NUY6C04BU-VEG  |                   | —                 | Cca-s1a-d0-a1  |                    |                   |       |           |
| NUW6C04BU-CE   |                   | —                 | B2ca-s1a-d1-a1 |                    |                   |       |           |

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### NetKey™ Jack Modules

- Meet all industry performance standards for Category 6A, 6 and 5e
- Punchdown jack modules are 100% performance tested and individually serialized for future traceability
- Keystone punchdown jacks meet ANSI/TIA-568.2-D and ISO 11801 component requirements
- Snap in and out of keystone openings for easy moves, adds and changes
- Universal label includes T568A and T568B wiring schemes
- Shielded Jack Module terminates 4-pair, 22-24 AWG, 100ohm shielded twisted pair cable; does not require Punch down tool



NK6X88MBU  
NK688MBU  
NKP5E88MBU



KJS6X88TC

| Part Number                    | Performance Level | Termination Style | Color  | Std. Pkg. Qty. |
|--------------------------------|-------------------|-------------------|--------|----------------|
| <b>Unshielded jack modules</b> |                   |                   |        |                |
| NK6X88MBU                      | Category 6A       | Punchdown         | Blue   | 1              |
| NK6X88MBU-Q                    |                   |                   |        | 25             |
| NK688MBU                       | Category 6        |                   |        | 1              |
| NK688MBU-Q                     |                   |                   |        | 25             |
| NKP5E88MBU                     | Category 5e       |                   |        | 1              |
| NKP5E88MBU-Q                   |                   |                   |        | 25             |
| <b>Shielded jack modules</b>   |                   |                   |        |                |
| KJS6X88TC                      | Category 6A       | TG Style          | Silver | 1              |

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

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### NetKey™ Patch Cords

- Meet all industry performance standards for Category 6A, 6 and 5e
- 100% performance tested
- Available in a variety of colors and lengths for design flexibility



NK6APC3BU  
NK6PC3BUY



NK5EPC3BUY

| Part Number | Performance Level | Length Ft.                   |
|-------------|-------------------|------------------------------|
| NK6APC3BU   | Category 6A       | 1-20, 25, 30, 35, 40, 45, 50 |
| NK6PC3BUY   | Category 6        |                              |
| NK5EPC3BUY  | Category 5e       |                              |

For other lengths, replace "3" in the part number with the desired patch cord length.  
For other colors, replace BU (Blue) with IW (off White) or RD (Red).

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## NetKey™ Patch Panels

- Modular patch panels accept NetKey™ Modules, which snap in and out for easy moves, adds and changes
- Angled style facilitates proper bend radius control and minimizes the need for horizontal cable managers
- Select modular patch panels have front access design includes faceplate with easy snap release feature

| Part Number | Ports | No. of Rack Units | Style | Identification | Color | Design |
|-------------|-------|-------------------|-------|----------------|-------|--------|
|-------------|-------|-------------------|-------|----------------|-------|--------|

### Unshielded Modular Patch Panels

|                            |    |   |          |              |              |              |
|----------------------------|----|---|----------|--------------|--------------|--------------|
| NKFP24FMWH                 | 24 | 1 | Flat     | Label Pocket | Black        | Front Access |
| NKPPA24FMWH                |    |   | Angled*  | Adhesive     | White        | Flush Mount  |
| NKPP24FMY                  |    |   | Flat     |              |              |              |
| NKPPA24FMY                 |    |   | Angled*  |              |              |              |
| <b>BEST SELLER</b> NKFP24Y |    |   | Flat     | Black        | Front Access |              |
| NKFPA24                    |    |   | Angled*  |              |              |              |
| NKPPA48HDY                 | 48 | 1 | Flat     | N/A          | White        | High Density |
| NKPP48HDY                  |    |   | Flat     |              |              |              |
| NKPPA48HDWH                |    |   | Angled*  |              |              |              |
| NKFP48Y                    | 48 | 2 | Flat     | Label Pocket | Black        | Front Access |
| NKPPA48FMWH                |    |   | Adhesive | White        | Flush Mount  |              |
| NKPPA48FMY                 |    |   |          |              |              | Black        |
| NKFP48FMWH                 |    |   | Angled*  |              |              |              |
| NKFP48Y                    |    |   | Flat     |              |              |              |
| NKFP48Y                    |    |   | Angled*  |              |              |              |



NKPP24FMY



NKFP24Y



NKPPA48HDWH



NKPPA48FMY



KP24WSBL



KPA48WSBL

### Shielded Modular Patch Panels

|           |    |   |        |              |       |              |
|-----------|----|---|--------|--------------|-------|--------------|
| KP24WSBL  | 24 | 1 | Flat   | Label pocket | Black | Front Access |
| KPS24BL   | 24 | 1 |        |              |       |              |
| KPA24WSBL | 24 | 1 | Angled | Adhesive     |       |              |
| KPA48WSBL | 48 | 2 |        |              |       |              |

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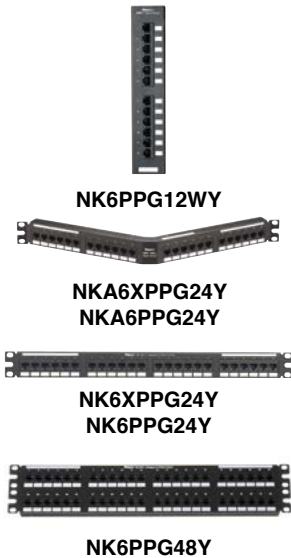
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### NetKey™ Punchdown Patch Panels

- Meets all TIA/EIA-568-C.2 Category 6 and ISO 11801 2nd Edition Class E channel requirements at swept frequencies up to 250 MHz
- Meets ANSI/TIA-568-C.2 and ISO 11801 Category 6 component requirements at swept frequencies up to 250 MHz
- Complies with ANSI/TIA-1096A (formerly FCC Part 68)
- Meets IEC 60603-7, Supports IEEE 802.3af/802.3at and proposed 802.3bt type 3 and type 4 PoE applications, UL 1863 approved, and RoHS Complaint

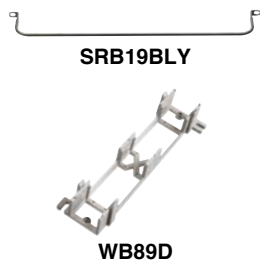


| Part Number             | Ports | No. of Rack Units | Style       | Identification | Color | Category    |
|-------------------------|-------|-------------------|-------------|----------------|-------|-------------|
| <b>Punchdown Panels</b> |       |                   |             |                |       |             |
| NK6PPG12WY              | 12    | –                 | Flat        | Adhesive       | Black | Category 6  |
| NK6XPPG24Y              | 24    | 1                 | Angled*     |                |       | Category 6A |
| NKA6XPPG24Y             |       |                   | Category 6  |                |       |             |
| NKA6PPG24Y              |       |                   | Category 6A |                |       |             |
| NK6PPG24Y               | 48    | 2                 | Flat        |                |       | Category 6  |
| NK6XPPG48Y              |       |                   | Angled*     |                |       | Category 6A |
| NKA6PPG48Y              |       |                   | Flat        | Category 6     |       |             |

\*Patented Design

### Accessories

- Strain relief bars help support cable exiting the back of the panel
- Filler panels cover unused rack space
- Transitional cover for angled panels to help promote proper airflow and cooling
- Select product available in White



| Part Number | Type               | Style         | Color | Std. Pkg. Qty. |       |
|-------------|--------------------|---------------|-------|----------------|-------|
| SRB19D5BL   | Strain Relief Bar  | Deep          | Black | 1              |       |
| SRB19BLY    |                    | Extended      |       |                |       |
| SRB19D7BL   |                    | Deep          |       |                |       |
| CPAF2BLY    | Filler Panel       | Angled        |       |                | White |
| CPAF1BLY    |                    |               |       |                |       |
| CPATCBL     | Transitional Cover | Quick Release |       |                |       |
| SRBBRKT     | Mounting Bracket   | 89D           |       |                |       |
| WB89D       | Bracket            |               |       |                |       |

## NetKey™ Fiber Enclosures

- Factory configured with 6, 12 or 24 duplex LC or SC adapters for fast and easy installation
- Slide-out drawer slides forward a full 300mm for service access to all fiber terminations, connections, and/or splices
- Supports both field termination or fusion splicing with appropriate slack storage and cable management provisions
- Simple two-piece, all-metal body construction for easy and economical installation with no loose components to misplace; improved protection over plastic fiber drawers



NKFD1W12BUDSCZ

| Part Number    | Adapter Type | Fiber Type | Adapter Color | Number of Adapters* |
|----------------|--------------|------------|---------------|---------------------|
| NKFD1W6BUDSCZ  | SC           | Multimode  | Blue          | 6                   |
|                |              | Singlemode |               |                     |
| NKFD1W12BUDSCZ | SC           | Multimode  |               | 12                  |
|                |              | Singlemode |               |                     |
| NKFD1W12BUDLCZ | LC           | Multimode  |               | 12                  |
|                |              | Singlemode |               |                     |
| NKFD1W24BUDLCZ | LC           | Multimode  |               | 24                  |
|                |              | Singlemode |               |                     |

## NetKey™ Fiber Optic Adapters



NKDLCMZIW



NKDSCMZIW

| Part Number | Adapter Type | Fiber Type |
|-------------|--------------|------------|
| NKDLCMZIW   | LC           | Multimode  |
|             |              | Singlemode |
| NKDSCMZIW   | SC           | Multimode  |
|             |              | Singlemode |

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

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### NetKey™ Fiber Patch Cords and Pigtails

- Compliant with ANSI/TIA 568-C.3-1 and ISO/IEC 11801, TIA-604-5 (FOCIS-5), and UL 1666 (OFNR) flame rating
- Patch cords and pigtails include OM1, OM3, OM4 or OS2 fiber in 900µm tight-buffered fiber, 1.6mm, 2.0mm or 3.0mm duplex zipcord jacketed cable
- 100% performance tested assures that patch cords and pigtails are standard compliant, Riser rated jacket meets UL 1666 (OFNR) flame rating for standard compliant safety
- Q.C. identification label quality control reference provides lifetime traceability of test data



ST to ST Patch Cord    SC to SC Patch Cord    LC to LC Patch Cord    SC to LC Patch Cord    LC to Pigtail    SC to Pigtail

|                            |           |           |          |          |          |          |          |          |          |          |            |
|----------------------------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|
| <b>Part Number Example</b> | <b>NK</b> | <b>FP</b> | <b>X</b> | <b>2</b> | <b>E</b> | <b>R</b> | <b>L</b> | <b>L</b> | <b>S</b> | <b>M</b> | <b>001</b> |
|                            | 1         | 2         | 3        | 4        | 5        | 6        | 7        | 8        | 9        | 10       | 11         |

**NK**  
NetKey

**FP**  
Fiber Patch Cord

**X**  
X = OM3  
Z = OM4  
9 = OS2

**2**  
2 = Duplex

**E**  
E = 1.6mm  
2 = 2.0mm  
3 = 3.0mm

**R**  
R = Riser  
L = LSZH

**L**  
L = LC  
S = SC  
2 = ST

**L**  
L = LC  
S = SC  
2 = ST

**S**  
S = Standard

**M**  
M = Meter

**001**  
Length

OM3, OM4, and OS2 pigtails available in 1m and 2m lengths. All other only available in 1m.

|                            |           |           |          |          |          |          |          |          |          |          |            |
|----------------------------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|
| <b>Part Number Example</b> | <b>NK</b> | <b>FP</b> | <b>X</b> | <b>1</b> | <b>B</b> | <b>N</b> | <b>1</b> | <b>N</b> | <b>S</b> | <b>N</b> | <b>001</b> |
|                            | 1         | 2         | 3        | 4        | 5        | 6        | 7        | 8        | 9        | 10       | 11         |

**NK**  
NetKey

**FP**  
Fiber Patch Cord

**X**  
X = OM3  
Z = OM4  
9 = OS2

**1**  
1 = Simplex

**B**  
B = 900µm

**N**  
N = N/A

**1**  
1 = LC  
2 = ST  
3 = SC

**N**  
N = N/A

**S**  
S = Standard

**N**  
N = N/A  
K = 12pc kit

**001**  
Length

OM3, OM4, and OS2 pigtails available in 1m and 2m lengths. All others only available in 1m.



## NetKey™ Faceplates

- Accept NetKey™ Modules for UTP, fiber optic, and audio/video
- Replacement label/label covers available for select products
- Non-label faceplates include screws with matching color head screws



NK1FIWY      NK2FIWY      NK4FIWY



NK6FIWY      NK1FNIW      NK2FNIW



NK3FNIW      NK4FNIW      NK4VSFIWY

| Part Number | Ports | Style | Identification | Std. Pkg. Qty. |
|-------------|-------|-------|----------------|----------------|
| NK1FIWY     | 1     | Flat  | Label Pocket   | 1              |
| NK2FIWY     | 2     |       |                |                |
| NK4FIWY     | 4     |       |                |                |
| NK6FIWY     | 6     |       |                |                |
| NK1FNIW     | 1     |       | Adhesive       |                |
| NK2FNIW     | 2     |       |                |                |
| NK3FNIW     | 3     |       |                |                |
| NK4FNIW     | 4     |       |                |                |
| NK6FNIW     | 6     |       |                |                |
| NK4VSFIWY   | 4     |       |                |                |

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

## NetKey™ Shielded Faceplates

- Keystone sloped shuttered faceplates
- Two piece design includes a metal mounting plate concealed by the outer frame for added security and aesthetic look.
- Faceplates accept two standard Keystone modules for copper, fiber and audio/video installations
- Supplied with mounting screws, metal mounting plate, label/label holder



KFPL80S2SWH      KFPL86S2SWH

| Part Number | Ports | Style  | Identification | Std. Pkg. Qty. |
|-------------|-------|--------|----------------|----------------|
| KFPL80S2SWH | 2     | Sloped | Label Pocket   | 1              |
| KFPL86S2SWH | 2     |        |                |                |

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### NetKey™ Stainless Steel Faceplates

- Accept NetKey™ Modules for UTP, fiber optic, and audio/video
- Impact-resistant 304 stainless steel for light industrial environments
- Replacement label/label covers available where applicable



| Part Number | Ports | Style | Identification | Size   | Std. Pkg. Qty. |
|-------------|-------|-------|----------------|--------|----------------|
| NKF2S       | 2     | Flat  | Label Pocket   | Single | 1              |
| NKF4S       | 4     |       |                |        |                |
| NKF6S       | 6     |       |                |        |                |

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### Faceplate Frames and Inserts

F.  
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#### Faceplate Frames

| Part Number | Size   | Style     | Identification | Std. Pkg. Qty. |
|-------------|--------|-----------|----------------|----------------|
| CBIW        | Single | Classic   | Adhesive       | 1              |
| CBIW-2G     | Double |           |                |                |
| CBEIWy      | Single | Executive | Label Pocket   |                |
| CBEIWy-2GY  | Double |           |                |                |

G.  
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Enclosures  
& Cable  
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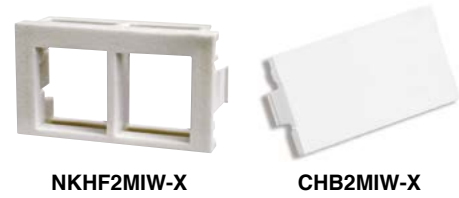
H.  
Power and  
Connectivity  
Management



#### 1/2 Size Inserts

| Part Number | Ports | Style            | Identification | Std. Pkg. Qty. |
|-------------|-------|------------------|----------------|----------------|
| NKHS2IW-X   | 2     | Sloped           | Adhesive       | 10             |
| NKHS2SIW-X  |       | Sloped Shuttered |                |                |

I.  
Cable  
Management  
Accessories



#### 1/3 Size Inserts

| Part Number | Ports | Style | Identification | Std. Pkg. Qty. |
|-------------|-------|-------|----------------|----------------|
| NKHF2MIW-X  | 2     | Flat  | -              | 10             |
| CHB2MIW-X   | -     | Blank |                |                |

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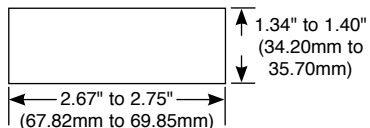
For other colors, replace IW (Off White) with EI (Electric Ivory) or WH (White).

## NetKey™ Furniture Faceplates

- Accept NetKey™ Modules for UTP, fiber optic, and audio/video

- Optional adhesive labels available
- Compatible with standard furniture opening

### Panel Cutout Requirements



Maximum Panel Thickness: 0.09" (2.29mm)

| Part Number | Ports | Style  | Std. Pkg. Qty. |
|-------------|-------|--------|----------------|
| NK4MFBL     | 4     | Flat   | 1              |
| NK4MFABL    |       | Sloped |                |

For other colors, replace BL (Black) with IW (Off White), WH (White), IG (International Gray).



NK4MFBL



NK4MFABL

## NetKey™ Surface Mount Boxes

- Accept all NetKey™ Modules
- Replacement label/label covers available where applicable

- Mount easily with supplied mounting screws, adhesive tape or optional magnet
- Cable entry from side knockouts



NK2BXIW-A



NK4BXIW-AY



NK6BXIW-AY

| Part Number | Ports | Style     | Identification | Magnet | Raceway Compatibility  |
|-------------|-------|-----------|----------------|--------|------------------------|
| NK2BXIW-A   | 2     | Elongated | Adhesive       | CBM-X  | LD3/LDPH3<br>LD5/LDPH5 |
| NK4BXIW-AY  | 4     |           | Label Pocket   |        |                        |
| NK6BXIW-AY  | 6     |           |                | -      |                        |

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

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### NetKey™ Punchdown Tools



NKSPB

PDT110

| Part Number | Description   |
|-------------|---|
| NKSPB       | Punchdown based used to assist in terminating Category 6 punchdown and A/V punchdown modules. |
| PDT110      | Single pair punchdown tool and blade terminates and cuts 110 style IDCs in one operation.     |
| PDTH110     | Replacement blade for single pair punchdown tool.   |

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# PANDUIT® FlexFusion™



Next-generation cabinet with custom configurations to meet your network needs.



### Ease of Use

Easy to adjust E-rails, PDU installation and accessories to reduce installation time.



### Robust

Solid construction with Best-in-Class load rating for secure installation.



### Security

Choice of key lock, 3-digit combo or HID electronic and/or keypad lock.



### Enhanced Cable Management

Choice of tool-less fingers, vertical cable manager and front-to-back cable manager.



### Integrated Intelligence

Turnkey deployment with pre-configured PDU, access control and environmental monitoring.



### Flexibility

Universal design for server or network applications.



### Maximum Cooling

80% perforated doors for increasing power density in newer deployments.



### Scalability

Configuration platform to create cabinet to meet your specification and requirements.



Like what you see...  
and want more?

For more information on FlexFusion™ Cabinets and to access the configurator, visit [www.panduit.com/flexfusion](http://www.panduit.com/flexfusion).

## FlexFusion™ Cabinets

FlexFusion™ Cabinets are ideal for network or server equipment and provide maximum flexibility and the capacity to manage high cable density in data center, enterprise or colocation deployment.



- Front single hinged door and split-hinged rear door with 80% open perforation
- Horizontally split side panels
- Adjustable front and rear cage nut equipment rails
- Includes ganging brackets and heavy-duty leveling legs
- Several tool-less cable management options to choose from
- Configurator tool to select a basic cabinet to a turn-key pre-configured cabinet
- Fully integral bonded without use of grounding wires - equipment rails, doors, side panels and top cap
- Static load rating - 3500 lbs. and rolling load rating - 2500 lbs.

| Part Number   | Width mm | Height RU | Depth mm | Side Panels | Color | Top Cap Type | PDU Mounting Bracket | Cable Management Fingers | Vertical Cable Management Panel |
|---------------|----------|-----------|----------|-------------|-------|--------------|----------------------|--------------------------|---------------------------------|
| XG64212BS0001 | 600      | 42        | 1070     | Both Sides  | Black | Brush Seal   | Left Side            | No                       | No                              |
| XG64212WS0001 |          |           |          |             | White |              |                      |                          |                                 |
| XG64222BS0001 |          |           | Black    |             |       |              |                      |                          |                                 |
| XG64222WS0001 |          |           | White    |             |       |              |                      |                          |                                 |
| XG64512BS0001 |          | 45        | 1070     |             | Black |              |                      |                          |                                 |
| XG64512WS0001 |          |           |          |             | White |              |                      |                          |                                 |
| XG64522BS0001 |          |           | 1200     |             | Black |              |                      |                          |                                 |
| XG64522WS0001 |          |           |          |             | White |              |                      |                          |                                 |
| XG64822BS0001 |          | 48        | 1200     |             | Black |              |                      |                          |                                 |
| XG64822WS0001 |          |           |          |             | White |              |                      |                          |                                 |
| XG74212BS0001 | 700      |           | 42       | 1070        | Black | Brush Seal   | Left Side            | No                       | No                              |
| XG74212WS0001 |          |           |          |             | White |              |                      |                          |                                 |
| XG74222BS0001 |          | Black     |          |             |       |              |                      |                          |                                 |
| XG74222WS0001 |          | White     |          |             |       |              |                      |                          |                                 |
| XG74512BS0001 |          | 45        | 1070     | Black       |       |              |                      |                          |                                 |
| XG74512WS0001 |          |           |          | White       |       |              |                      |                          |                                 |
| XG74522BS0001 |          |           | 1200     | Black       |       |              |                      |                          |                                 |
| XG74522WS0001 |          |           |          | White       |       |              |                      |                          |                                 |
| XG74822BS0001 |          | 48        | 1200     | Black       |       |              |                      |                          |                                 |
| XG74822WS0001 |          |           |          | White       |       |              |                      |                          |                                 |
| XG84222BS0001 | 800      |           | 42       | 1200        | Black | Brush Seal   | Both Sides           | Yes                      | Left Side                       |
| XG84222WS0001 |          |           |          |             | White |              |                      |                          |                                 |
| XG84522BS0005 |          | 45        | 1200     | Black       |       |              |                      |                          |                                 |
| XG84522WS0005 |          |           |          | White       |       |              |                      |                          |                                 |
| XG84822BS0005 |          | 48        | 1200     | Black       |       |              |                      |                          |                                 |
| XG84822WS0005 |          |           |          | White       |       |              |                      |                          |                                 |

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### FlexFusion™ Accessories

Select from tool-less cable management and easy to install PDU mounting brackets to enhance and complete your FlexFusion™ Cabinet.

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### FlexFusion™ Cable Management Fingers



| Part Number | RU    | Length In. | Color |
|-------------|-------|------------|-------|
| XG-FML45B   | 42-45 | 6          | Black |
| XG-FML45W   |       |            | White |
| XG-FML48B   | 48    |            | Black |
| XG-FML48W   |       |            | White |
| XG-FMS45B   | 42-45 | 4          | Black |
| XG-FMS45W   |       |            | White |

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### FlexFusion™ PDU Mounting Brackets



| Part Number | Description                      | Color |
|-------------|----------------------------------|-------|
| XG-PBRB     | FlexFusion™ PDU Mounting Bracket | Black |
| XG-PBRW     |                                  | White |

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### FlexFusion™ Vertical Cable Management Panels



| Part Number | RU | Color |
|-------------|----|-------|
| XG-VCM42B   | 42 | Black |
| XG-VCM42W   |    | White |
| XG-VCM45B   | 45 | Black |
| XG-VCM45W   |    | White |
| XG-VCM48B   | 48 | Black |
| XG-VCM48W   |    | White |

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## Net-Access™ N-Type Cabinets

Net-Access™ N-Type Cabinets are ideal for network applications that requires optimal thermal management and the capacity to manage high cable densities of switch applications.



- Front dual or single hinge doors with 69% open perforation
- Dual hinge front door allows door to open to the left or right
- Rear perforated split doors with 69% opening
- Inset frame for improved cable management
- Single point bonding at top and bottom of cabinet
- Static load rating - 3000 lbs. and rolling load rating - 2500 lbs.
- Fully integral bonded without the use of grounding wires - equipment rails, door and side panels

## Standard Configured Cabinets

| Part Number | RU | Front Door              | Rear Door        | Side Panels | Rail Type | Color | Dimensions |          |          |
|-------------|----|-------------------------|------------------|-------------|-----------|-------|------------|----------|----------|
|             |    |                         |                  |             |           |       | Height mm  | Width mm | Depth mm |
| N8212BE     | 42 | Single Hinge Perforated | Split Perforated | 2           | Cage Nut  | Black | 2026       | 800      | 1070     |
| N8222B      |    |                         |                  |             | Tapped    |       |            |          | 1200     |
| N8222WC     |    |                         |                  |             | Cage Nut  | White |            |          |          |
| N8229W      |    |                         |                  |             | 0         |       |            |          | Tapped   |
| N8512B      | 45 | Dual Hinge Perforated   | Split Perforated | 2           | Cage Nut  | Black | 2134       | 800      | 1070     |
| N8512BC     |    |                         |                  |             | Tapped    |       |            |          | 1200     |
| N8522B      |    |                         |                  |             | Cage Nut  | White |            |          |          |
| N8522BC     |    |                         |                  |             | 0         |       |            |          | Tapped   |
| N8822WC     | 48 |                         |                  |             | Cage Nut  | White | 2267       |          |          |

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### Net-Access™ S-Type Cabinets

Net-Access™ S-Type Cabinets are ideal for server applications where high density RU utilization and cable management are required.



- Front single hinge door and split perforated rear door with 69% open perforation
- Vertically split hinged side panels (if applicable)
- Vertical blanking panel included
- Heavy-duty leveling legs
- Ganging brackets
- Rear equipment rails accommodate cable management fingers (finger sold separately)
- Fully integral bonded without the use of grounding wires - equipment rails, door and side panels
- Static load rating - 3000 lbs. and rolling load rating - 2500 lbs.
- Casters included

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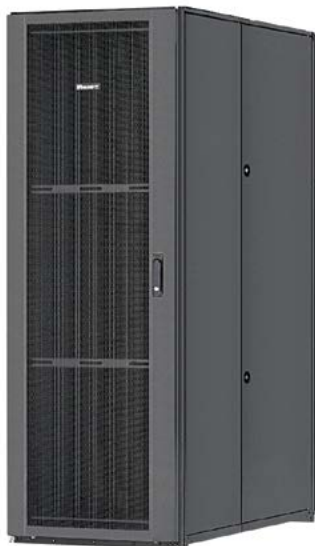
| Part Number | RU   | Front Door              | Rear Door        | Side Panels | Color | Dimensions |          |          |
|-------------|------|-------------------------|------------------|-------------|-------|------------|----------|----------|
|             |      |                         |                  |             |       | Height mm  | Width mm | Depth mm |
| S6212B      | 42   | Single Hinge Perforated | Split Perforated | 2           | Black | 2026       | 600      | 1070     |
| S6222B      |      |                         |                  |             |       | 2026       |          |          |
| S6522BF     | 2134 |                         |                  |             |       |            |          |          |
| S7222B      | 2026 |                         |                  |             |       | 700        | 1200     |          |
| S7522BF     | 2134 |                         |                  |             |       |            |          |          |
| S8212B      | 42   |                         |                  |             |       | 2026       | 800      | 1070     |
| S8512B      | 45   |                         |                  |             |       | 2134       |          |          |
| S8512BF     |      |                         |                  |             |       |            |          |          |
| S8522B      |      |                         |                  |             |       |            |          |          |
| S8522BF     |      |                         |                  |             |       |            |          | 1200     |

Parts ending with an "F" include one set of cable management fingers.



## Net-Access™ S-Type Universal Cabinets

Net-Access™ S-Type Universal Cabinets are ideal for network or server application that provides effective thermal management, high density cable management and RU utilization.



- Front single hinge door and split perforated rear door with 69% open perforation
- Vertically split hinged side panels (if applicable)
- Ganging brackets included
- Heavy-duty leveling legs
- Adjustable front and rear equipment rails
- Top and bottom rail position markings
- Front and rear equipment rails accommodate cable management fingers (includes 1 set of fingers)
- Fully integral bonded without the use of grounding wires - equipment rails, door and side panels
- Static load rating - 3000 lbs. and rolling load rating - 2500 lbs.
- Casters included

## Universal Standard Configured Cabinets

| Part Number | RU | Front Door              | Rear Door        | Side Panels | Color | Dimensions |          |          |
|-------------|----|-------------------------|------------------|-------------|-------|------------|----------|----------|
|             |    |                         |                  |             |       | Height mm  | Width mm | Depth mm |
| S6212BU     | 42 | Single Hinge Perforated | Split Perforated | 2           | Black | 2026       | 600      | 1070     |
| S6222BU     |    |                         |                  |             |       |            |          | 1200     |
| S6812BU     | 48 |                         |                  |             |       | 1070       |          |          |
| S7222BU     |    |                         |                  |             |       | 1200       |          |          |
| S7512WU     | 45 |                         |                  |             | White | 2134       | 700      | 1070     |
| S7822BU     | 48 |                         |                  |             |       |            |          | 1200     |
| S7822WU     | 42 |                         |                  |             | White | 2267       | 800      | 1070     |
| S8212BU     |    |                         |                  |             |       |            |          | 1200     |
| S8512BU     | 45 |                         |                  |             | Black | 2134       | 800      | 1070     |
| S8522BU     |    |                         |                  |             |       |            |          | 1200     |

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### Net-Access™ Enterprise Cabinets

The 12 and 24 RU Net-Access™ Enterprise Cabinets store switches, patching, and servers used in office and small business areas. They are easy to roll away under a desk or in a closet. The ability of the cabinet is to easily move where needed, enables fast setups and quick changes of network capabilities. Perforated doors encourage airflow to help cool equipment in tight spaces.

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- Outset post design
- Welded and assembled steel frame construction
- Easy maintenance powder coat finish
- Adjustable rear equipment rails
- Fixed front equipment rails
- Integral vertical airdams
- Dual cut outs (1.5" x 5") in the rear cap of the cabinet for cable entry/cable access
- Single hinge perforated doors on front and rear with locks
- Side panels on both sides with ¼ turn locks
- Static load of 567kg (1,250 lbs.)
- Rolling load of 227kg (500 lbs.)
- EIA-310-E compliant
- Cabinet ships either fully assembled one per pallet, flat packed one per pallet, or flat packed 5 per pallet
- Hardware kit: M6 screws and cage nuts
- Swivel casters
- Adjustable leveling legs
- Single point grounding locations at bottom of cabinet

| Part Number | Nominal Width mm | Height | Nominal Depth mm | Side Panels | Color | Packaging             |
|-------------|------------------|--------|------------------|-------------|-------|-----------------------|
| E6212B1     | 600              | 12 RU  | 1070             | 2           | Black | Assembled on Pallet   |
| E6212B1FP   |                  |        |                  |             |       | Flat Packed on Pallet |
| E6412B2     |                  | 24 RU  |                  |             |       | Assembled on Pallet   |
| E6412B2FP   |                  |        |                  |             |       | Flat Packed on Pallet |

## Net-Contain™ Vertical Exhaust Ducts (VEDs)



| Part Number    | N-Type Compatibility | S-Type Compatibility | Description   |
|----------------|----------------------|----------------------|---|
| C2VED07I3866B1 | -                    | X                    | VED - Adjustable from 965mm (38") up to 1676mm (66") Height |

## Net-Access™ Cabinet Accessories



| Part Number            | Height | Cabinet Type | Color | Nominal Depth mm |
|------------------------|--------|--------------|-------|------------------|
| <b>Side Panel Kits</b> |        |              |       |                  |
| N51SPS                 | 45 RU  | N-Type       | Black | 1070             |
| S22SPSE                | 42 RU  | S-Type       |       | 1200             |
| S51SPSE                | 45 RU  |              |       | 1070             |
| S52SPSE                |        |              |       | 1200             |
| S82SPSEW               | 48 RU  |              |       | White            |



SN15F



NVPDUBE



SPDUBRK



S2BRK6



S2BRK12



SN8VCM



S1DR



S2DR



S2LR

| Part Number                              | N-Type Compatibility | S-Type Compatibility | Description  |
|--|----------------------|----------------------|--|
| <b>PDU Brackets and Cable Management</b> |                      |                      |  |
| SN15F                                    | X                    | X                    | Finger Kit (100mm Length) 42-45 RU Cabinets                        |
| SN25F                                    |                      |                      | Finger Kit (150mm Length) 42-45 RU Cabinets                        |
| SN18F                                    |                      |                      | Finger Kit (100mm Length) 48 RU Cabinets                           |
| NVPDUBE                                  | -                    | -                    | PDU Bracket - Sold in Pairs  |
| SPDUBRK                                  |                      |                      |  |
| S2BRK6                                   |                      |                      |  |
| S2BRK12                                  |                      |                      |  |
| SN8VCM                                   | X                    | X                    | Vertical Cable Management Bracket - 800mm Wide Cabinets            |
| S1DR                                     | -                    | -                    | 1 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM |
| S2DR                                     |                      |                      | 2 RU D-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM |
| S2LR                                     |                      |                      | 2 RU L-Ring Kit to be used with S2BRK6, S2BRK12, SN7VCM and SN8VCM |

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| Part Number    | N-Type Compatibility | S-Type Compatibility | Description   |
|----------------|----------------------|----------------------|---|
| <b>Casters</b> |                      |                      |   |
| NCSTR4         | X                    | —                    | 2 fixed casters for front - 2 swivel casters for rear.                        |
| <b>Locks</b>   |                      |                      |   |
| CCL3           | X                    | X                    | 3-digit combination locks with key over-ride for single hinge or split doors. |

### Net-Access™ Cabinet Thermal Management Accessories

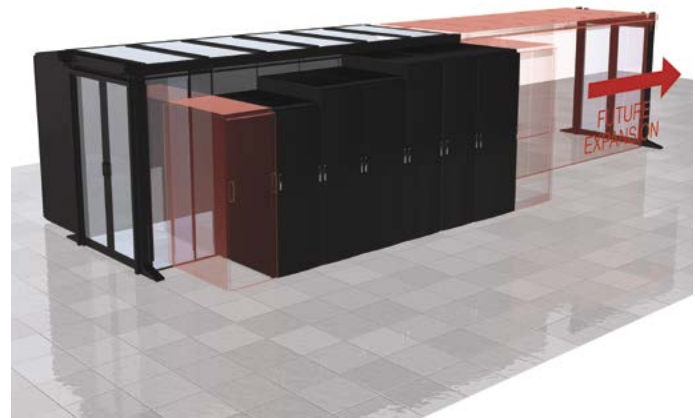


| Part Number                     | N-Type Compatibility | S-Type Compatibility                           | Description   |
|---------------------------------|----------------------|--|---|
| <b>Vertical Blanking Panels</b> |                      |  |   |
| NVBP                            | X                    | —  | Vertical Blanking Panels with Pass Thru Openings for 42-48 RU |
| <b>Floor Seals</b>              |                      |  |   |
| N2EOR1BA1070B1                  | X                    | —  | End of Row Floor Seal for 1070mm Deep Cabinets                |
| N2EOR1BA1070W1                  |                      |  |   |
| N2EOR1CA1200B1                  |                      | End of Row Floor Seal for 1200mm Deep Cabinets |   |
| N2EOR1CA1200W1                  |                      |  |   |
| C2FAB08A1200B1                  | X                    | Front or Back Floor Seal                       |   |
| C2FAB08A1200W1                  |                      |  |   |

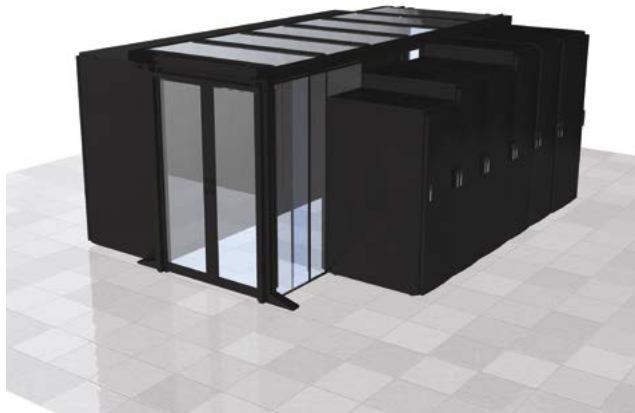
### Net-Contain™ Universal Containment System

The Universal Containment System allows users to reclaim underutilized cooling capacity, reduce energy expense and reduce OpEx by retrofitting the existing data center with an innovative containment system. The system includes independent support structure, sliding doors, vertical blanking panels, and roof structure.

This offering can be configured in Vertical Wall (Hot Aisle Containment) and Roof Containment (Cold Aisle Containment) and allows the addition of cabinets (Panduit or non-Panduit) of varying sizes and design as needs dictate, reducing deployment time and capital investment.



Net-Contain™ Universal Containment System (continued)



Roof Containment

Typically used for Passive Cold Aisle Containment; deployed either on raised floor or within-row cooling.



Vertical Wall Containment

Typically used for Passive Hot Aisle Containment or Ceiling Discharge Cold Aisle Containment.

End of Row Frames

End of row frames form the Universal Aisle Containment structure at each end of a containment pod.



| Part Number  | Aisle Width Ft. (mm) | Frame Height | Color                                    |
|--------------|----------------------|--------------|--|
| CUEFRT8W04** | 4 (1200)             | 42 RU/45 RU  | **Add B1 for Black<br>**Add W1 for White |
| CUEFRT8W06** |                      |              |  |
| CUEFRT9W04** | 6 (1800)             | 48 RU/52 RU  |  |
| CUEFRT9W06** |                      |              |  |

Wall Beams



CUWBPS08ST02B1

| Part Number    | Roof Containment | Vertical Wall Containment | Length mm | Description | UAC/USRC |
|----------------|------------------|---------------------------|-----------|-------------|----------|
| CUWBPS06ST02** | X                | X                         | 600       | 2 Piece     | UAC/USRC |
| CUWBPS07ST02** |                  |                           | 700       |             |          |
| CUWBPS08ST02** |                  |                           | 800       |             |          |
| CUWBPS24ST02** |                  |                           | 2400      |             |          |

\*\*B1 = Black, W1 = White

Mid-Span Cabinet Support



CUCMSS03ST01NC

| Part Number    | Roof Containment | Vertical Wall Containment | Height mm | UAC/USRC |
|----------------|------------------|---------------------------|-----------|----------|
| CUCMSS03ST01NC | X                | X                         | 300       | UAC/USRC |
| CUCMSS06ST01NC |                  |                           | 600       |          |

Full Height Mid-Span Post



| Part Number    | Description   | Color                                    |
|----------------|---|--|
| CUSMPR52ST01** | Mid-span post that provides structural support to the UAC frame; required for every 2400 mm on partially populated row. | **Add B1 for Black<br>**Add W1 for White |

Rigid Roof Sections



| Part Number    | Dimensions (Panel Length x Aisle Width) | Color                                    |
|----------------|---|--|
| CURFS06F04HB** | 600mm x 1200mm                          | **Add B1 for Black<br>**Add W1 for White |
| CURFS06F06HB** | 600mm x 1800mm                          |  |
| CURFS07F04HB** | 700mm x 1200mm                          |  |
| CURFS07F06HB** | 700mm x 1800mm                          |  |
| CURFS08F04HB** | 800mm x 1200mm                          |  |
| CURFS08F06HB** | 800mm x 1800mm                          |  |

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| Part Number | Roof Containment | Vertical Wall Containment | Row Width mm | Cabinet Width mm | UAC/USRC |
|-------------|------------------|---------------------------|--------------|------------------|----------|
|-------------|------------------|---------------------------|--------------|------------------|----------|

#### Drop Away Panels

|             |   |   |      |   |     |
|-------------|---|---|------|---|-----|
| CUCGF04DP** | X | - | 1200 | X | UAC |
| CUCGF06DP** |   |   | 1800 |   |     |

\*\*B1 = Black, W1 = White

| Part Number | Roof Containment | Vertical Wall Containment | Aisle Width mm | Cabinet Width mm | UAC/USRC |
|-------------|------------------|---------------------------|----------------|------------------|----------|
|-------------|------------------|---------------------------|----------------|------------------|----------|

#### End of Row Kits for Drop Away Panels

|              |   |   |      |   |     |
|--------------|---|---|------|---|-----|
| CUEORF04DP** | X | X | 1200 | X | UAC |
| CUEORF06DP** |   |   | 1800 |   |     |

\*\*B1 = Black, W1 = White

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

#### Top of Cabinet Blanking Panel

|                |   |
|----------------|---|
| CUTBPR0610HBN1 | Top of cabinet blanking panel used to fill gaps above cabinets; needed when cabinet height is less than UAC frame size. |
|----------------|---|

| Part Number | Panel Height | Color |
|-------------|--------------|-------|
|-------------|--------------|-------|

#### Full Height Blanking Panels

Full blanking panel used to fill gap in containment where cabinets have not been deployed.

|                |       |  |
|----------------|-------|--|
| CUFBPR4206HB** | 42 RU | **Add B1 for Black<br>**Add W1 for White |
| CUFBPR4506HB** | 45 RU |  |
| CUFBPR4806HB** | 48 RU |  |
| CUFBPR5206HB** | 52 RU |  |

| Part Number | Height Range In. (mm) | Width mm | Color |
|-------------|-----------------------|----------|-------|
|-------------|-----------------------|----------|-------|

#### Vertical Wall (Mounted Onto UAC Frame)

Adjustable vertical wall mounted onto UAC frame to seal gap up to ceiling in aisle containment.

|                |                     |     |  |
|----------------|---------------------|-----|--|
| C2HAC06I1626** | 16-26<br>(406-660)  | 600 | **Add B1 for Black<br>**Add W1 for White |
| C2HAC06I2638** | 26-38<br>(660-965)  |     |  |
| C2HAC06I3866** | 38-66<br>(965-1676) |     |  |
| C2HAC07I1626** | 16-26<br>(406-660)  | 700 |  |
| C2HAC07I2638** | 26-38<br>(660-965)  |     |  |
| C2HAC07I3866** | 38-66<br>(965-1676) |     |  |
| C2HAC08I1626** | 16-26<br>(406-660)  | 800 |  |
| C2HAC08I2638** | 26-38<br>(660-965)  |     |  |
| C2HAC08I3866** | 38-66<br>(965-1676) |     |  |

**Net-Contain™ Universal Containment System (continued)**

| Part Number | Description | Color |
|-------------|-------------|-------|
|-------------|-------------|-------|

**Vertical Wall Brace (Mounted Onto UAC Frame)**



|                       |   |  |
|-----------------------|---|--|
| <b>CUVWB12S12ST**</b> | Vertical wall brace is mounted across the aisle between wall beams to provide extra stability in aisle containment. | **Add B1 for Black<br>**Add W1 for White |
|-----------------------|---|--|

| Part Number | Size | Color |
|-------------|------|-------|
|-------------|------|-------|

**Vertical Wall Adapter**

Vertical wall adapter used to mount Vertical Walls to UAC frame in aisle containment.



|                       |                                      |  |
|-----------------------|--------------------------------------|--|
| <b>CUVWA06S06ST**</b> | 600mm Adapter for 1200mm Aisle Width | **Add B1 for Black<br>**Add W1 for White |
| <b>CUVWA07S07ST**</b> | 700mm Adapter for 1200mm Aisle Width |  |
| <b>CUVWA08S08ST**</b> | 800mm Adapter for 1200mm Aisle Width |  |

| Part Number | Roof Containment | Vertical Wall Containment | Aisle Width mm | Description | Compatible With CAC/HAC |
|-------------|------------------|---------------------------|----------------|-------------|-------------------------|
|-------------|------------------|---------------------------|----------------|-------------|-------------------------|

**Dual Sliding Doors**

Dual sliding doors provide thermal seal at the end of the row and attach to the end of row frames.



|                 |   |   |           |   |         |
|-----------------|---|---|-----------|---|---------|
| <b>CUD1SD**</b> | X | X | 1200/1800 | Double Sliding Door                     | CAC/HAC |
| <b>CUD2SD**</b> |   |   |           | Double Sliding Door, Packaged as a Pair |         |

| Part Number | Height Range In. (mm) | Aisle Width mm | Color |
|-------------|-----------------------|----------------|-------|
|-------------|-----------------------|----------------|-------|

**Vertical Wall (Mounted Above End of Row Frame)**



|                       |                  |      |  |
|-----------------------|------------------|------|--|
| <b>C2HACERI1626**</b> | 16-26 (406-660)  | 1200 | **Add B1 for Black<br>**Add W1 for White |
| <b>C2HACERI2638**</b> | 26-38 (660-965)  |      |  |
| <b>C2HACERI3866**</b> | 38-66 (965-1676) |      |  |

**Net-Contain™ Universal Single Row Containment and Universal Aisle Containment**

| Part Number | Length | Color |
|-------------|--------|-------|
|-------------|--------|-------|

**Wall Beam to Wall Seal**



|                    |                             |  |
|--------------------|-----------------------------|--|
| <b>CUSRWSK06**</b> | Used with 600mm Wall Beams  | **Add B1 for Black<br>**Add W1 for White |
| <b>CUSRWSK07**</b> | Used with 700mm Wall Beams  |  |
| <b>CUSRWSK08**</b> | Used with 800mm Wall Beams  |  |
| <b>CUSRWSK24**</b> | Used with 2400mm Wall Beams |  |

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### Net-Contain™ Universal Single Row Containment and Universal Aisle Containment (continued)

B. Copper Systems



CUSREFRT8W1

| Part Number | Roof Containment | Vertical Wall Containment | Aisle Width mm | RU | UAC/USRC |
|-------------|------------------|---------------------------|----------------|----|----------|
|-------------|------------------|---------------------------|----------------|----|----------|

#### End of Row Frames

|                         |   |   |     |                |      |
|-------------------------|---|---|-----|----------------|------|
| CUSREFRT8 <sup>^^</sup> | X | X | 900 | 42 RU to 45 RU | USRC |
| CUSREFRT9 <sup>^^</sup> |   |   |     | 48 RU to 52 RU |      |

\*Used with CUEFRCKITB1 conversion kit for applications with 2 rows of cabinets.

<sup>^^</sup>B1 = Black, W1 = White

C. Fiber Systems

D. Industrial Networks



CUEFRCKITB1

| Part Number | Roof Containment | Vertical Wall Containment | Aisle Width mm | RU | UAC/USRC |
|-------------|------------------|---------------------------|----------------|----|----------|
|-------------|------------------|---------------------------|----------------|----|----------|

#### USRC to UAC Conversion Kit

|                         |   |   |     |   |     |
|-------------------------|---|---|-----|---|-----|
| CUEFRCKIT <sup>**</sup> | X | X | 900 | — | UAC |
|-------------------------|---|---|-----|---|-----|

Attaches to end of row frames.

<sup>\*\*</sup>B1 = Black, W1 = White

E. Audio Video Systems

F. Keystone Cabling Systems



CUSRRFS06B1

| Part Number | Roof Containment | Vertical Wall Containment | Aisle Width mm | Width mm | UAC/USRC |
|-------------|------------------|---------------------------|----------------|----------|----------|
|-------------|------------------|---------------------------|----------------|----------|----------|

#### Rigid Roof Sections

|                         |   |   |     |     |          |
|-------------------------|---|---|-----|-----|----------|
| CUSRRFS06 <sup>**</sup> | X | — | 900 | 600 | UAC/USRC |
| CUSRRFS07 <sup>**</sup> |   |   |     | 700 |          |
| CUSRRFS08 <sup>**</sup> |   |   |     | 800 |          |

<sup>\*\*</sup>B1 = Black, W1 = White

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power and Connectivity Management



CUCGF03DPB1

| Part Number | Roof Containment | Vertical Wall Containment | Row Width mm | Cabinet Width mm | UAC/USRC |
|-------------|------------------|---------------------------|--------------|------------------|----------|
|-------------|------------------|---------------------------|--------------|------------------|----------|

#### Drop Away Panels

|                         |   |   |     |   |          |
|-------------------------|---|---|-----|---|----------|
| CUCGF03DP <sup>**</sup> | X | — | 900 | — | UAC/USRC |
|-------------------------|---|---|-----|---|----------|

<sup>\*\*</sup>B1 = Black, W1 = White

I. Cable Management Accessories



CUEORF03DPB1

| Part Number | Roof Containment | Vertical Wall Containment | Aisle Width mm | Cabinet Width mm | UAC/USRC |
|-------------|------------------|---------------------------|----------------|------------------|----------|
|-------------|------------------|---------------------------|----------------|------------------|----------|

#### End of Row Kits for Drop Away Panels

|                          |   |   |     |   |          |
|--------------------------|---|---|-----|---|----------|
| CUEORF03DP <sup>**</sup> | X | — | 900 | — | UAC/USRC |
|--------------------------|---|---|-----|---|----------|

<sup>\*\*</sup>B1 = Black, W1 = White

J. Cable Routing Systems

K. Cable Cleats

L. Part Number Index

**Net-Contain™ Universal Aisle Containment and Single Aisle Containment (continued)**



CUSRVWA06B1

| Part Number                        | Roof Containment | Vertical Wall Containment | Aisle Width mm | Vertical Wall Width | UAC/USRC |
|------------------------------------|------------------|---------------------------|----------------|---------------------|----------|
| <b>USRC Vertical Wall Adapters</b> |                  |                           |                |                     |          |
| CUSRVWA06**                        | —                | X                         | 900            | 600                 | UAC/USRC |
| CUSRVWA07**                        |                  |                           |                | 700                 |          |
| CUSRVWA08**                        |                  |                           |                | 800                 |          |

\*\*B1 = Black, W1 = White



CUSRWB1

| Part Number                | Roof Containment | Vertical Wall Containment | Aisle Width mm | Cabinet Width mm | UAC/USRC |
|----------------------------|------------------|---------------------------|----------------|------------------|----------|
| <b>Vertical Wall Brace</b> |                  |                           |                |                  |          |
| CUSRWB**                   | —                | X                         | 900            | —                | UAC/USRC |

\*\*B1 = Black, W1 = White



CUSRWERI1626B1

| Part Number                     | Roof Containment | Vertical Wall Containment | Adjustability In. | Aisle Width mm | UAC/USRC |
|---------------------------------|------------------|---------------------------|-------------------|----------------|----------|
| <b>End of Row Vertical Wall</b> |                  |                           |                   |                |          |
| CUSRWERI1626**                  | —                | X                         | 16-26             | 900            | UAC/USRC |
| CUSRWER2638**                   |                  |                           | 26-38             |                |          |
| CUSRWER3866**                   |                  |                           | 38-66             |                |          |

\*\*B1 = Black, W1 = White



CUSR1SDLHB1

| Part Number   | Roof Containment | Vertical Wall Containment | Aisle Width mm | Description                        | UAC/USRC |
|---|------------------|---------------------------|----------------|------------------------------------|----------|
| <b>Sliding Doors</b>  |                  |                           |                |                                    |          |
| Used with Universal Single Row Containment and Universal Aisle Containment with 900mm Aisle Widths. |                  |                           |                |                                    |          |
| CUSR1SDLH**   | X                | X                         | 900            | Single Sliding, Left Hand Opening  | USRC     |
| CUSR1SDRH**   |                  |                           |                | Single Sliding, Right Hand Opening |          |

\*\*B1 = Black, W1 = White



CUEOR12CPB1

| Part Number            | Roof Containment | Vertical Wall Containment | Aisle Width mm | UAC/USRC |
|------------------------|------------------|---------------------------|----------------|----------|
| <b>End Of Row Caps</b> |                  |                           |                |          |
| CUSREORCP**            | X                | X                         | 900            | UAC/USRC |
| CUEOR12CP**            |                  |                           | 1200           | UAC      |
| CUEOR18CP**            |                  |                           | 1800           |          |

\*\*B1 = Black, W1 = White

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### Direct Cold Air To Where It Is Needed



#### Net-Direct™ Inlet Ducts enable optimized containment by effectively directing airflow to improve network reliability

- Inlet duct solutions deliver cooling air directly from the cold aisle into the intake fans of switches
- Inlet ducts are completely passive, requiring no energy to operate and eliminating a point of failure
- Ensures front to back cooling airflow which enables an effective deployment of network switches with a Net-Contain™ Cold Aisle Containment deployment
- Inlet ducts enable reduced fan power energy consumption by allowing lower fan speeds, improving the reliability of the switch

Available for: Cisco^ Nexus, Catalyst and MDS Switches.

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### Direct Hot Air To Where It Needs To Exhaust

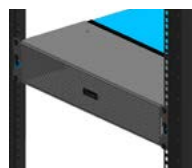
#### Net-Direct™ Exhaust Ducts direct hot exhaust air out of a cabinet away from adjacent devices within non-contained environments

- Exhaust duct solutions channel hot exhaust air directly to the hot aisle, away from the cold air inlet of adjacent switches
- Exhaust ducts are completely passive, requiring no energy to operate and eliminating a point of failure
- Ensures switch exhaust airflow is directed to the hot aisle enabling effective deployment of network switches with a standard hot aisle/ cold aisle configuration
- Exhaust ducts enable reduced fan power energy consumption by allowing lower fan speeds, improving the reliability of the switch

Available for: Cisco^ Nexus and Catalyst Switches.

Patented In-Cabinet Ducting optimizes cooling system efficiency by establishing front-to-back airflow patterns through the cabinet.

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| Part Number              | Description   |
|--------------------------|---|
| <b>Air Inlet Ducting</b> |   |
| CDE2                     | Air inlet duct, 1 RU that resides in-line and below switch provides cold aisle airflow to Cisco Nexus^ N2K-C2148T-1GE, N2K-C2248TP-1GE, and N2K-C2232PP-10GE fabric extenders and Cisco^ WS-C4948E-F, WS-C4948E-F-S, and WS-C4948E-F-E. Optimized for use in server cabinet applications. |
| DIRLC2214M21W            | Air inlet duct designed for Cisco^ Catalyst^ 6509-E switch. Consists of 2 RU top and 2 RU bottom inlet ducts and a side duct. Compatible with Net-Access™ N-Type Network Cabinets.  |
| DIRBB2007S21W            | Air inlet duct designed for Cisco^ Nexus^ 7004 switch. Consists of one 2 RU inlet duct and a side duct. Compatible with Net-Access™ N-Type Network Cabinets.  |
| CID1RU22-23DB1           | Air inlet 1 RU duct for Cisco^ Nexus^ 9372 switch, compatible with 21.5" – 23.5" switch depth.  |
| DIFBA2002S00S            | Air inlet duct for Cisco^ Nexus^ 9396 switch.   |
| DIRLC3210S17W            | Air inlet duct for Cisco^ Catalyst^ 6807XL switch.  |
| <b>Exhaust Ducting</b>   |   |
| DERLCC6509A              | Air exhaust duct for Net-Access™ N-Type 1070mm depth cabinets. Designed for Cisco^ Catalyst^ 6509 switch.   |
| DERLCC7009A              | Air exhaust duct for Net-Access™ N-Type 1070mm depth cabinets. Designed for Cisco^ Nexus^ 7009 switch.  |

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## Thermal Sealing Accessories



FLBSIM-51



TLBP1R-V



TLBP1S-V



TLBP2R-V



RFG\*X\*Y



RFG\*X\*SMY



CTGN1X5



CTGN3X5



CTGN6X6



CTCN1X5



CTCN3X5



CTCN6X6



CTNBZL6X6

| Part Number | Description | Color |
|-------------|-------------|-------|
|-------------|-------------|-------|

### Blanking Shades

**BEST SELLER**

|           |   |       |
|-----------|---|-------|
| FLBSIM-51 | Full-length blanking shade blanks out 1-51 consecutive rack units on standard 19" (482.6mm) wide vertical mounting rails. | Black |
|-----------|---|-------|

### Tool-Less Blanking Panels

|            |   |       |
|------------|---|-------|
| TLBP1R-V10 | 1 RU tool-less blanking panel, round hole 19" (483mm) width for tapped rails.   | White |
| TLBP1S-V   | 1 RU tool-less blanking panel, square hole 19" (483mm) width for 3/8" cage nut holes (may be used with or without cage nuts installed). | Black |
| TLBP1S-V10 |   | White |
| TLBP2S-V   | 2 RU tool-less blanking panel, square hole 19" (483mm) width for 3/8" cage nut holes (may be used with or without cage nuts installed). | Black |
| TLBP2S-V10 |   | White |
| TLBP2R-V10 | 2 RU tool-less blanking panel, round hole 19" (483mm) width for tapped rails.   | White |

### CoolBoot™ Raised Floor Air Sealing Grommets - Integral Mount

|         |  |           |
|---------|--|-----------|
| RFG6X8Y | Overall size of 6" x 8" (152.4mm x 203.2mm) allows for 4.2" x 6.2" (106.7mm x 157.5mm) capacity. | Navy Blue |
| RFG8X8Y | Overall size of 8" x 8" (203.2mm x 203.2mm) allows for 6.2" x 6.2" (157.5mm x 157.5mm) capacity. |           |

### CoolBoot™ Raised Floor Air Sealing Grommets - Surface Mount

|           |  |           |
|-----------|--|-----------|
| RFG3DSMY  | Overall size of 4.8" (121.9mm) diameter allows for 2.7" (68.6mm) diameter capacity.              | Navy Blue |
| RFG6X8SMY | Overall size of 6" x 8" (152.4mm x 203.2mm) allows for 4.2" x 6.2" (106.7mm x 157.5mm) capacity. |           |
| RFG8X8SMY | Overall size of 8" x 8" (203.2mm x 203.2mm) allows for 6.2" x 6.2" (157.5mm x 157.5mm) capacity. |           |

Also designed for retrofit application.

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

### CoolBoot™ Cabinet Top Air Sealing Fittings

|         |   |
|---------|---|
| CTGN1X5 | Used to seal off 1" x 5" cabinet top openings when cables are routed through the top of a cabinet. Airtight fabric and Ultra-Cinch™ Tie close top of fabric, minimizing hot air bypass around cables to improve cooling of network equipment and reduce energy costs. For use with 600mm wide Net-Access™ Cabinets.   |
| CTGN3X5 | Used to seal off 3" x 5" cabinet top openings when cables are routed through the top of a cabinet. Airtight fabric and Ultra-Cinch™ Tie close top of fabric, minimizing hot air bypass around cables to improve cooling of network equipment and reduce energy costs. For use with 600mm, 700mm and 800mm wide FlexFusion(TM) and 700mm and 800mm Net-Access™ Cabinets. |
| CTGN6X6 | Used to seal off 6.5" x 6.5" cabinet top openings when cables are routed through the top of a cabinet. Airtight fabric and Ultra-Cinch™ Tie close top of fabric, minimizing hot air bypass around cables to improve cooling of network equipment and reduce energy costs. For use with 600mm, 700mm, 800mm, and 1000mm wide Net-Access™ Cabinets.                       |

### Cabinet Top Cover and Cable Protection Bezels

|           |   |
|-----------|---|
| CTCN1X5   | Used to seal off 1.5" x 5" cabinet top openings. Can also be used to add the CTGN1X5 to openings where the snap-on cover has been removed. For use with Net-Access™ Cabinets.   |
| CTCN3X5   | Used to seal off 3.5" x 5" cabinet top openings. Can also be used to add the CTGN3X5 to openings where the snap-on cover has been removed. For use with FlexFusion™ and Net-Access™ Cabinets.   |
| CTCN6X6   | Used to seal off 6" x 6" cabinet top openings. Can also be used to add the CTGN6X6 to openings where the snap-on cover has been removed. For use with Net-Access™ Cabinets.   |
| CTNBZL6X6 | Used to provide a protective edge for cables routed through the 6.5" x 6.5" cabinet top openings after knock-outs are removed. Can also be used to add the CTGN6X6 to openings where knock-out has been removed. For use with Net-Access™ Cabinets. |

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### PatchRunner™ 2 Vertical Cable Management System

- A "push-to-close" door design allows for easy operation
- The doors ship with managers which simplifies the ordering process with less packaging waste
- There are no brackets to install, providing faster installation while reducing labor costs
- Managers and doors are available in black and white
- Individual fingers align with rack spaces to simplify cable routing changes
- The integral bend radius control ensures network performance and system reliability
- An optional snap on vertical retainer can be placed on the fingers to help retain cables in channel for improved cable management and appearance
- An optional slack management spool helps organize and manage patch cord slack allowing for standardization of patch cord lengths



PR2VD08

| Part Number                   | Height In. (mm) | Width In. (mm) | Depth In. (mm) | No. of Rack Units | Single or Dual Sided | No. of Doors Included | Color |
|-------------------------------|-----------------|----------------|----------------|-------------------|----------------------|-----------------------|-------|
| <b>BEST SELLER</b><br>PR2VD06 | 84.0 (2130)     | 6.0 (152)      | 20.6 (523)     | 45                | Dual                 | 2                     | Black |
| <b>BEST SELLER</b><br>PR2VD08 |                 | 8.0 (203)      |                |                   |                      |                       |       |
| <b>BEST SELLER</b><br>PR2VD10 |                 | 10.0 (254)     |                |                   |                      |                       |       |
| <b>BEST SELLER</b><br>PR2VD12 |                 | 12.0 (305)     | 12.0 (304.8)   |                   | Single               | 1                     |       |
| PR2VFD06                      |                 | 6.0 (152)      |                |                   |                      |                       |       |
| PR2VFD08                      |                 | 8.0 (203)      |                |                   |                      |                       |       |
| PR2VSD06                      |                 | 6.0 (152)      | 20.6 (523)     |                   | Dual                 |                       |       |
| PR2VSD08                      |                 | 8.0 (203)      |                |                   |                      |                       |       |

### Cable Management Accessories



PR2VWF

| Part Number | Description   | Color |
|-------------|---|-------|
| PR2VRGSK12  | Rear Gate System Kit for use with 12-inch wide single-sided PatchRunner™ 2 Vertical Cable Managers, kit of 4 gates.     | Black |
| PR2VWF      | Waterfall Trough creates a cable pathway above 2 Post Racks or 4 Post Racks and PatchRunner™ 2 Vertical Cable Managers. |       |

### PatchRunner™ 2 Enhanced Vertical Cable Manager with Vertical Patching



PE2VD12

| Part Number                   | Height In. (mm) | Width In. (mm) | Depth In. (mm) | No. of Rack Units | Single or Dual Sided | No. of Doors Included | Color |
|-------------------------------|-----------------|----------------|----------------|-------------------|----------------------|-----------------------|-------|
| <b>BEST SELLER</b><br>PE2VD06 | 84.0 (2130)     | 6.0 (152)      | 26.8 (681)     | 45                | Dual                 | 2                     | Black |
| <b>BEST SELLER</b><br>PE2VD08 |                 | 8.0 (203)      |                |                   |                      |                       |       |
| <b>BEST SELLER</b><br>PE2VD12 |                 | 12.0 (305)     |                |                   |                      |                       |       |
| PE2VFD06                      |                 | 6.0 (152)      | 16.3 (415)     |                   | Single               | 1                     |       |

## PatchRunner™ 2 Horizontal Cable Management System



PR2HF2

| Part Number | Height In. (mm) | Width In. (mm) | Depth In. (mm) | No. of Rack Units | Single or Dual Sided | No. of Doors Included | Color |
|-------------|-----------------|----------------|----------------|-------------------|----------------------|-----------------------|-------|
| PR2HF2      | 3.6 (90)        | 19 (484)       | 7.9 (202)      | 2                 | Single               | 1                     | Black |
| PR2HF3      | 5.41 (135)      |                |                | 3                 |                      |                       |       |
| PR2HF4      | 7.1 (179)       |                |                | 4                 |                      |                       |       |

## NetRunner™ Vertical Cable Management

- Integral cable retainers on the end of each finger provide easy access to route cables between fingers
- Bend radius fingers align with rack spaces to support cables as they transition to the vertical pathway
- Dual hinged covers can be opened 110° to the left or right to provide complete access to the cables inside the vertical pathway
- Vertical managers include hinged covers, mounting brackets and #12-24 screws

### NetRunner™ Vertical Cable Manager



WMPV45E

| Part Number                     | Height In. (mm) | Width In. (mm) | Depth In. (mm) | No. of Rack Units | Single or Dual Sided | Color |
|---------------------------------|-----------------|----------------|----------------|-------------------|----------------------|-------|
| <b>BEST SELLER</b><br>WMPV45E   | 83.0 (2108)     | 4.9 (125)      | 12.0 (306)     | 45                | Dual                 | Black |
| <b>BEST SELLER</b><br>WMPVF45E  |                 |                | 6.5 (165)      |                   | Single               |       |
| <b>BEST SELLER</b><br>WMPVHC45E |                 | 6.7 (170)      | 14.1 (357)     |                   | Dual                 |       |
| WMPV22E                         | 41.5 (1054)     | 4.9 (125)      | 12.0 (306)     | 22                | Dual                 |       |
| WMPVHCF45E                      | 83.0 (2108)     | 6.7 (170)      | 7.6 (192)      | 45                | Single               |       |

## IN-Cabinet Vertical Cable Managers

- For managing cable within cabinets 27 inches or wider
- Attach to equipment mounting rails
- Two mounting bracket options to facilitate mounting to various cabinet configurations
- Snap-on covers included



CWMPV3440

| Part Number | Height In. (mm) | Width In. (mm) | Depth In. (mm) | No. of Rack Units | Orientation | Single or Dual Sided | Color |
|-------------|-----------------|----------------|----------------|-------------------|-------------|----------------------|-------|
| CWMPV3340   | 70.0 (1778)     | 4.7 (119)      | 3.3 (83)       | 40                | Front Mount | Single               | Black |
| CWMPV3440   | 71.9 (1825)     | 3.5 (88)       | 4.3 (109)      |                   | Side Mount  |                      |       |

### Open-Access™ Horizontal Cable Managers

- D-ring managers provide an open and efficient way to manage cable
- Patented D-ring design provides flexibility for easy moves, adds, and changes
- Pass-through holes allow front to rear cabling
- Mount to 19" EIA racks and cabinets
- Hardware included
- Ideal when positioning managers above and below a 1 RU patch panel or switch for better port access



CMPHF1

| Part Number | Height In. (mm) | Width In. (mm) | Depth In. (mm) | No. of Rack Units | Single or Dual Sided | Color |
|-------------|-----------------|----------------|----------------|-------------------|----------------------|-------|
| CMPHF1      | 1.7 (44)        | 19.0 (483)     | 8.6 (218)      | 1                 | Single               | Black |
| CMPHF2      | 3.5 (88)        |                |                | 2                 |                      |       |

### PatchLink™ Horizontal Cable Managers

- Lightweight plastic construction provides durability and easy installation
- Patented dual hinged cover allows cable access without removing cover
- Rounded edges on fingers protect cables from snags and damage to cable
- Flexible fingers allows easy installation and removal of cables
- Pass-through holes allow front to rear cabling
- Covers and #12-24 mounting screws included
- Recommended for use with NetRunner™ WMPVHC45E and WMPVHCF45E Vertical Managers found on page G.19



WMPF1E

| Part Number                  | Height In. (mm) | Width In. (mm) | Depth In. (mm) | No. of Rack Units | Single or Dual Sided | Color |
|------------------------------|-----------------|----------------|----------------|-------------------|----------------------|-------|
| <b>BEST SELLER</b><br>WMP1E  | 3.5 (89)        | 19.0 (483)     | 8.9 (226)      | 2                 | Dual                 | Black |
| <b>BEST SELLER</b><br>WMPF1E |                 |                | 3.7 (94)       |                   | Single               |       |
| <b>BEST SELLER</b><br>WMPH2E |                 |                | 8.9 (226)      |                   | Dual                 |       |
| <b>BEST SELLER</b><br>WMPFSE | 1.7 (44)        |                | 2.7 (69)       | 1                 | Single               |       |
| <b>BEST SELLER</b><br>WMPSE  |                 |                | 8.9 (226)      |                   | Dual                 |       |
| WMPHF2E                      | 3.5 (89)        |                | 3.7 (94)       | 2                 | Single               |       |
| WMPLFSE                      | 1.7 (44)        | 2.7 (69)       | 1              | Dual              |                      |       |
| WMPLSE                       |                 | 7.9 (200)      |                |                   |                      |       |

## NetManager™ High Capacity Horizontal Cable Managers

- Innovative inset fingers slope inward toward back of managers offering unobstructed access to network cabling for easier moves, adds, and changes
- Rear cable management finger spacing utilizes open D-rings for greater accessibility
- Can be used to create large capacity horizontal pathways for routing cable
- Patented front and rear dual hinged cover allows cable access without removing cover
- Pass-through holes allow for front to rear cabling
- Built in cable retainers hold cable in place for easy moves, adds, and changes
- Covers and #12-24 mounting screws included
- Recommended for use with NetRunner™ WMPVHC45E Vertical Manager or PatchRunner™ 2 Vertical Managers found on pages G.18–G.19



NMF1



NMF2WH

| Part Number | Height In. (mm) | Width In. (mm) | Depth In. (mm) | No. of Rack Units | Single or Dual Sided | Color |       |
|-------------|-----------------|----------------|----------------|-------------------|----------------------|-------|-------|
| NMF1        | 1.7 (44)        | 19.0 (482)     | 6.2 (157)      | 1                 | Single               | Black |       |
| NMF2        | 3.5 (88)        |                |                | 2                 |                      |       |       |
| NM1         | 1.7 (44)        |                | 13.1 (332)     | 1                 | Dual                 |       |       |
| NM2         | 3.5 (88)        |                |                | 2                 |                      |       |       |
| NMF1WH      | 1.7 (44)        |                | 6.2 (157)      | 1                 | Single               |       | White |
| NMF2WH      | 3.5 (88)        |                |                | 2                 |                      |       |       |

## 4 Post Cable Management Rack System

- Independent adjustable front and rear mounting rails can be adjusted while the rack is secured to the floor
- Printed rack space identification on all equipment rails allows for quick location of rack spaces (shipped numbers up per TIA606 specifications; can be set to number down by flipping the rails)
- Multiple mounting holes in top flanges for securing overhead pathways
- Weld nut construction eliminates the need for a second wrench increasing speed and ease of assembly
- Panduit vertical cable managers mount directly to the 4 post rack at any of the four corners
- Paint piercing washers included to electrically bond rack for simplified grounding



R4PCN

| Part Number                 | Height In. (mm) | Width In. (mm) | Depth In. (mm) | No. of Rack Units | Equipment Rails | Load Capacity Lbs. | Color |
|-----------------------------|-----------------|----------------|----------------|-------------------|-----------------|--------------------|-------|
| <b>BEST SELLER</b><br>R4P   | 84.0 (2134)     | 23.3 (591)     | 30.0 (762)     | 45                | #12-24 Threaded | 2500               | Black |
| <b>BEST SELLER</b><br>R4PCN |                 |                |                |                   | Cage Nut        |                    |       |
| R4P23CN                     |                 |                | 23.0 (584)     |                   |                 |                    |       |
| R4P36                       |                 |                | 36.0 (914)     |                   | Cage Nut        |                    |       |
| R4P36CN                     |                 |                |                |                   |                 |                    |       |
| R4P42CN                     |                 |                |                |                   |                 |                    |       |



A. Product Showcase

### Adjustable Depth 4 Post Racks



AR4P

| Part Number | Height In. (mm) | Width In. (mm) | Depth In. (mm)                   | No. of Rack Units | Equipment Rails | Color |
|-------------|-----------------|----------------|----------------------------------|-------------------|-----------------|-------|
| AR4P        | 84.13 (2136.9)  | 20.31 (515.9)  | 23.00 to 42.00 (584.2 to 1066.8) | 45                | #12-24 Threaded | Black |
| AR4P96      | 96.13 (2441.7)  |                |                                  | 52                |                 |       |
| AR4PCN      | 84.13 (2136.9)  |                |                                  | 45                | Cage Nut        |       |
| AR4PCN96    | 96.13 (2441.7)  |                |                                  |                   |                 |       |

B. Copper Systems

C. Fiber Systems

D. Industrial Networks

### 2 Post Cable Management Rack System

- Printed rack space identification on all equipment rails allows for quick location of rack spaces; numbers up per TIA606 specifications
- Double-sided #12-24 EIA universal mounting hole spacing
- 24 #12-24 mounting screws included
- When mounting NetRunner™ Managers to channel rack R2P6S, utilize side mount kit WMPVSMK
- Multiple mounting hole locations in each base angle
- Can be used with all Panduit cable management and patch panel products in addition to any industry standard 19" components
- Paint piercing washers included to electrically bond rack for simplified grounding; for the complete grounding solution, StructuredGround™ Kits for racks, see page G.27

E. Audio Video Systems

F. Keystone Cabling Systems



R2P

| Part Number               | Height In. (mm) | Width In. (mm) | Depth In. (mm) | No. of Rack Units | Equipment Rails | Load Capacity Lbs. | Color |
|---------------------------|-----------------|----------------|----------------|-------------------|-----------------|--------------------|-------|
| <b>BEST SELLER</b><br>R2P | 84.0 (2134)     | 20.3 (516)     | 3.0 (76)       | 45                | #12-24 Threaded | 1000               | Black |
| R2P6S                     |                 |                | 6.0 (152)      |                   |                 | 1500               |       |

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power and Connectivity Management

### Rack Mount Shelves

- Mounting hardware included
- Vented shelves provide better heat distribution for active equipment



RSHLF

| Part Number | Description              | Height In. (mm) | Width In. (mm) | Depth In. (mm) | No. of Rack Units | Material | Load Rating Lbs. | Color |
|-------------|--------------------------|-----------------|----------------|----------------|-------------------|----------|------------------|-------|
| SRM19FM1    | 2 Post Rack Mount Shelf. | 1.7 (44)        | 19.0 (483)     | 15.2 (385)     | 1                 | Steel    | 30               | Black |
| RSHLF       | 4 Post Rack Mount Shelf. |                 |                | 30.0 (762)     |                   |          | 275              |       |

I. Cable Management Accessories

J. Cable Routing Systems

K. Cable Cleats

L. Part Number Index

## Rack Filler Panels

- Direct airflow in cabinet applications
- Mount to standard EIA 19" racks or cabinets
- Reserve rack unit space for future use



DPFP1

| Part Number | Height In. (mm) | Width In. (mm) | No. of Rack Units | Color |
|-------------|-----------------|----------------|-------------------|-------|
| DPFP1       | 1.7 (44)        | 19.0 (483)     | 1                 | Black |
| DPFP2       | 3.5 (88)        |                | 2                 |       |

## Brackets and Blanking Panels



PEB1

| Part Number                    | Description   | No. of Rack Units | Color |
|--------------------------------|---|-------------------|-------|
| <b>Panel Extender Brackets</b> |   |                   |       |
| PEB1                           | Set of two brackets, allows 19" rack mountable accessories to mount to 23" wide rack. | 1                 | Black |
| PEB2                           |   | 2                 |       |



CVPDUB

| Part Number               | Description  | Color |
|---------------------------|--|-------|
| <b>4 Post PDU Bracket</b> |  |       |
| CVPDUB                    | PDU bracket kit vertically mounts power distribution units (PDUs) to the back of 4 post racks. | Black |
| <b>2 Post PDU Bracket</b> |  |       |
| R2PPDUB                   | Mounts power distribution units (PDUs) to the back of 2 post racks.                            | Black |
| <b>Blanking Panel</b>     |  |       |
| BR1B                      | Brush seal blanking panel with front to back cable pass-through 1 RU.                          | Black |

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A.  
Product  
Showcase

### PanZone™ Consolidation Point Box Enclosures

- Provides a point of connection and configuration within the permanent link to allow interconnection/cross connection to a network service or device
- The use of these enclosures in a zone cable application provides accessibility and flexibility to reconfigure cable runs
- Meets frequently changing organizational requirements and reducing network downtime when reconfigurations happen
- Capable of managing Mini-Com™ Modular Panels used with snap in modular faceplates and 19-inch patch panels
- Versatility in configurations accepts interchangeable modular patch panels for use with Mini-Com™ Products, NetKey™ Products, QuickNet™ Products, or fiber products
- Removable cover protects connection points
- Large openings for cable entry/exit allow for optimum cable capacity and maintains cable bend radius
- Foam around cable entry and exit points, protects from excess dust and debris
- Removable modular panels and patch panels quick drop-in panel design allows for time savings on installation, termination, and reconfiguration and allows for easier access to ports

B.  
Copper  
Systems

C.  
Fiber  
Systems

D.  
Industrial  
Networks

E.  
Audio  
Video  
Systems

F.  
Keystone  
Cabling  
Systems



CPB6BL

| Part Number                   | Width In. (mm) | Depth In.(mm) | Height In. (mm) | No. of Rack Units | No. of Ports | Material | Color |
|-------------------------------|----------------|---------------|-----------------|-------------------|--------------|----------|-------|
| <b>BEST SELLER</b><br>CPB6BL  | 7 (177.8)      | 6.99 (177.5)  | 2.48 (63)       | 1                 | 6            | Steel    | Black |
| <b>BEST SELLER</b><br>CPB12BL | 11.3 (287)     | 7.15 (181.6)  |                 |                   | 12           |          |       |
| <b>BEST SELLER</b><br>CPB24BL | 20.15 (511.8)  | 12.15 (308.6) | 24              |                   |              |          |       |
| <b>BEST SELLER</b><br>CPB48BL |                |               | 3.74 (95)       | 2                 | 48           |          |       |

G.  
Cabinets,  
Thermal  
Mgmt, Racks,  
Enclosures  
& Cable  
Mgmt

### PanZone™ TrueEdge™ Wall Mount Enclosures

- The low-profile enclosure provides an efficient way to deploy switch and server systems in an open architecture environment
- Capable of being used as a telecommunications room, extension of the telecommunications room, micro data center, or edge deploy
- Capable of mounting up to 36 inches of active equipment depth and has the capability of vertical patching
- Engineered to properly ventilate for use with various networking equipment such as, but not limited to, Power over Ethernet (PoE) Switches and Uninterrupted Power Supplies (UPS)
- Removable, perforated top and bottom is optimal for air flow, heat dissipation, and equipment access
- Adjustable equipment brackets for accommodation of server and/or switch applications
- Removable and secure top cover and bottom plate allow for easy installation and provides secure access to installed equipment
- Load rating to accommodate a static load of up to 400 lbs.
- Easily installed by one person
- Compatible with SmartZone™ Handles and Systems
- Accessories to mount patch panels and horizontal PDUs

H.  
Power and  
Connectivity  
Management

I.  
Cable  
Management  
Accessories



WME6BL

| Part Number | Width In. (mm) | Depth In. (mm) | Height In. (mm) | No. of Rack Units | No. of Ports | Material | Color |
|-------------|----------------|----------------|-----------------|-------------------|--------------|----------|-------|
| WME3BL      | 28.6 (12.97)   | 9.5 (4.31)     | 42 (19.05)      | 3                 | 200          | Steel    | Black |
| WME6BL      |                | 14.8 (6.71)    |                 | 6                 | 300          |          |       |
| WME9BL      |                | 20 (9.07)      |                 | 9                 | 400          |          |       |

J.  
Cable  
Routing  
Systems

K.  
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## PanZone™ Wall Mount Cabinets

- Holds 12 RU of active and passive network equipment plus two additional rack units for power strips and small electronic devices (modems, routers, power strips, etc.)
- Thermal management design (vents, perforated doors, and optional fan) optimizes air flow for improved heat dissipation
- Installed as hinged right or hinged left
- Conduit and wireless access point antenna knockouts provided
- Rear hinging access manages the back of the cabinet
- Accessories include horizontal slack manager, bend radius posts, rear equipment rail kit, and exhaust fan
- Working load rating of 250 lbs.
- Adjustable rails mount at 1 inch increments to accommodate various depths of network equipment including PoE switches
- Individual rack spaces are identified for ease of equipment mounting
- Keys to secure front and rear doors and side panels



PZWMC12W



PZWMC1230WH

| Part Number                    | Width In. (mm) | Depth In. (mm) | Height In. (mm) | No. of Rack Units | Material | Color | Door Type  |
|--------------------------------|----------------|----------------|-----------------|-------------------|----------|-------|------------|
| PZWMC12P                       | 25 (635)       | 25 (635)       | 23.8 (604.5)    | 12                | Steel    | Black | Perforated |
| <b>BEST SELLER</b><br>PZWMC12W |                |                | 34 (863.6)      | 18                |          |       | Window     |
| PZWMC18W                       |                |                | 48.2 (1224.3)   | 26                |          |       |            |
| PZWMC26W                       |                | 30 (762)       | 23.8 (604.5)    | 12                |          |       |            |
| PZWMC1230W                     |                |                | 34 (863.6)      | 18                |          |       | Black      |
| PZWMC1230WH                    |                |                | 48.2 (1224.3)   | 26                |          |       | White      |
| PZWMC1830W                     |                |                | Black           |                   |          |       |            |
| PZWMC1830WH                    |                | White          |                 |                   |          |       |            |
| PZWMC2630W                     |                | Black          |                 |                   |          |       |            |
| PZWMC2630WH                    |                | White          |                 |                   |          |       |            |

## PanZone™ Basic In-Ceiling Enclosures

- Hinged door with integrated 110 V exhaust fan and gas assist air cylinders for restraining the load on the ceiling door when opening
- Ceiling tile brackets and cutout template for inserting ceiling tile on the enclosure door
- Thermal management design optimizes air flow for improved heat dissipation; ideal for high heat load network equipment
- Two-tier mounting bracket accommodates two rack spaces of active equipment up to 17.5 inches deep and three additional rack spaces up to 13.5 inches deep for improved network design flexibility
- 50 lb. door weight capacity
- Includes door plate, equipment mounting bracket, and integrated horizontal cable slack manager
- AC power ready – receptacle not included
- Includes low decibel 60 CFM fan
- Keys for locking latch to secure the ceiling door
- UL 2043 rated and UL 1863 rated



PZICEA

| Part Number | Width In. (mm) | Depth In. (mm) | Height In. (mm) | No. of Rack Units | Load Capacity Lbs. | Material | Color |
|-------------|----------------|----------------|-----------------|-------------------|--------------------|----------|-------|
| PZICEA      | 23.5 (596.9)   | 27.23 (691.6)  | 13.43 (341.1)   | 5                 | 50                 | Steel    | White |

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### PanZone™ Overhead Distribution Racks

- Ideal solution for adding more rack spaces above racks or cabinets in data centers or telecommunication rooms
- Universal mounting bracket can be mounted to most industry ladder racks, wire basket, or suspended by a threaded rod from ceiling
- 60 or 80 lb. load rating
- Cable management accessories available



| Part Number | Width In. (mm) | Depth In. (mm) | Height In. (mm) | No. of Rack Units | Equipment Rails | Load Capacity Lbs. | Material | Color |
|-------------|----------------|----------------|-----------------|-------------------|-----------------|--------------------|----------|-------|
| PZLRB4U     | 20.3 (515)     | 6.4 (161)      | 12.4 (317)      | 4                 | Threaded #12-24 | 60                 | Steel    | Black |
| PZLRB6U     | 16 (405)       |                | 16 (405)        | 6                 |                 | 80                 |          |       |

### Brackets and Accessories



| Part Number | Description   |
|-------------|---|
| PZWMC12RR   | PanZone™ Wall Mount Cabinet 12 RU Rear Rails Kit.           |
| WME0UB      | 0 RU Bracket for Vertical Wall Mount Enclosure.             |
| WME31RU     | 1 RU Bracket for WME3BL.                                    |
| WME3ERAIL   | Equipment Rails for WME3BL.                                 |
| WMEBR       | Wall Mount Enclosure Brushed Entry Kit.                     |
| WBH1        | Hinged Wall Mount Bracket, 1 RU, 6 inches in depth (152mm). |

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## Grounding and Bonding Equipment Bonding Jumper Kit

- Bonds the rack or cabinet to the MCBN
- Engineered to comply with US and International grounding requirements

- HTAP is UL Listed and CSA Certified for applications up to 600 V when crimped with Panduit and specified competitor crimping tools, and Panduit crimping dies



| Part Number                        | MCBN Conductor Size AWG | Description   |
|------------------------------------|-------------------------|---|
| <b>BEST SELLER</b><br>RGCBNJ660P22 | HTCT2-2.1               | #6 AWG (16mm <sup>2</sup> ) jumper; 60" (1.52m) length; 45° bent lug on grounding strip side; provided with .16 oz. (5cc) of antioxidant, two each #12-24 x 1/2", M6 x 12mm, #10-32 x 1/2" and M5 x 12mm thread-forming screws and a copper compression HTAP* for connecting to the MCBN. |

\*HTAPs also sold separately.



## Grounding Busbar



| Part Number  | Description   |
|--|---|
| <b>Grounding Busbar Kits for Threaded Rail Fasteners</b> |   |
| <b>BEST SELLER</b><br>RGRB19U                            | Grounding busbar; 19" (483mm) length; tin-plated; 20 holes arranged for flexibility in mounting with 20 #12-24 x 1/2" hex head screws installed; mounting hole sets have 5/8" (15.9mm) spacing; provided with two each #12-24 x 1/2", M6 x 12mm thread-forming screws, and two #12 flat washers for mounting. |



## Grounding Strip

- Bonds up to 45 RU per Rack with Threaded Rail Fasteners with an EIA Universal Mounting Hole Pattern

- Engineered to comply with US and international grounding requirements



| Part Number                     | Description  |
|---------------------------------|--|
| <b>BEST SELLER</b><br>RGS134-1Y | Grounding strip; 78.65" (2m) length; .67" (17mm) width; .05" (1.27mm) thickness; provided with .16 oz. (5cc) of antioxidant, one grounding sticker and three each #12-24 x 1/2" and M6 x 12mm thread-forming screws. |

## **PATENTED** Green Bonding Cage Nut Kit

- Creates an electrical bond between the mounting rails and equipment that conforms to EIA-310 specifications for racks and cabinets

- Made from high carbon steel and installed with a Phillips, flat blade, or nut screwdriver



| Part Number                | Description   |
|----------------------------|---|
| <b>BEST SELLER</b><br>CNBK | Green bonding cage nut, includes 50 #12-24 bonding cage nuts (.06 – .11 thick panel) and 50 #12-24 x 1/2" bonding screws with #2 Phillips/slotted combo hex head (use 5/16" or 8mm socket). |

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### SmartZone™ G5 Power Distribution Units (PDUs)



1U (SLIM)



1U



2U



0U HALF



0U MID



0U FULL

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### Dimensions

| Form Factor | Height In. (mm) | Width In. (mm) | Depth In. (mm) |
|-------------|-----------------|----------------|----------------|
| 1U (SLIM)   | 1.6 (40.6)      | 17.5 (444.5)   | 2.0 (50.8)     |
| 1U          | 1.7 (43.2)      |                | 7.8 (198.1)    |
| 2U          | 3.4 (86.4)      |                | 7.8 (198.1)    |
| 0U HALF     | 32.2 (817.9)    | 2.0 (50.8)     | 2.1 (53.3)     |
| 0U MID      | 58.7 (1491)     |                | 2.1 (53.3)     |
| 0U FULL     | 68.9 (1750.1)   |                | 2.1 (53.3)     |

**Mounting:** Vertical units do not occupy the EIA space. Horizontal units mount in standard (1U or 2U) EIA rack space.

### Monitored Input (MI Series)

- Provides aggregate PDU monitoring to quickly identify potential power issues and reclaim available or under-utilized power capacity
- Can also be used for environmental monitoring through sensors and electronic rack access control through electronic swing-handles (each sold separately)

| Part Number                         | Input Current Per Phase | Form Factor | Input Plug Type     | Apparent Power (kVA) | Outlet Count | Outlet Configuration | Length (mm) | Width (mm) | Depth (mm) at Outlet Position | Std. Pkg. Qty. |
|-------------------------------------|-------------------------|-------------|---------------------|----------------------|--------------|----------------------|-------------|------------|-------------------------------|----------------|
| <b>100-240 VAC, 1-Phase</b>         |                         |             |                     |                      |              |                      |             |            |                               |                |
| P12D36M                             | 16                      | 1U          | IEC 60309 2P+E 6h   | 3.7                  | 12           | (12)C13              | 44.0        | 443.5      | 269.8                         | 1              |
| P24D40M                             | 16                      | 0U MID      | IEC 60309 2P+E      | 3.7                  | 24           | (20)C13, (4)C19      | 1490.0      | 52.0       | 53.0                          | 1              |
| <b>200-240 VAC, 1-Phase</b>         |                         |             |                     |                      |              |                      |             |            |                               |                |
| P16D37M                             | 32                      | 2U          | IEC 60309 2P+E 6h   | 7.4                  | 16           | (12)C13, (4)C19      | 87.0        | 443.5      | 269.8                         | 1              |
| P24D03M                             | 32                      | 0U MID      | IEC 60309 2P+E 6h   | 7.4                  | 24           | (20)C13, (4)C19      | 1490.0      | 52.0       | 53.0                          | 1              |
| P34D41M                             | 32                      | 0U FULL     | IEC 60309 2P+E 6h   | 7.4                  | 34           | (28)C13, (6)C19      | 1750.0      | 52.0       | 53.0                          | 1              |
| P42D06M                             | 32                      | 0U FULL     | IEC 60309 2P+E 6h   | 7.4                  | 42           | (36)C13, (6)C19      | 1750.0      | 52.0       | 53.0                          | 1              |
| <b>200-240/346-415 VAC, 3-Phase</b> |                         |             |                     |                      |              |                      |             |            |                               |                |
| P06D38M                             | 16                      | 1U          | IEC 60309 3P+N+E 6h | 11.0                 | 6            | (6)C19               | 44.0        | 443.5      | 269.8                         | 1              |
| P06D39M                             | 32                      | 1U          | IEC 60309 3P+N+E 6h | 22.0                 | 6            | (6)C19               | 44.0        | 443.5      | 269.8                         | 1              |
| P30D05M                             | 16                      | 0U MID      | IEC 60309 3P+N+E 6h | 11.0                 | 30           | (24)C13, (6)C19      | 1490.0      | 52.0       | 53.0                          | 1              |
| P42D42M                             | 16                      | 0U FULL     | IEC 60309 3P+N+E 6h | 11.0                 | 42           | (36)C13, (6)C19      | 1750.0      | 52.0       | 53.0                          | 1              |
| P24D43M                             | 32                      | 0U FULL     | IEC 60309 3P+N+E 6h | 22.0                 | 24           | (12)C13, (12)C19     | 1750.0      | 52.0       | 53.0                          | 1              |
| P42D04M                             | 32                      | 0U FULL     | IEC 60309 3P+N+E 6h | 22.0                 | 42           | (30)C13, (12)C19     | 1750.0      | 52.2       | 53.0                          | 1              |

## Monitored Switched (MS Series)

- Provides aggregate power monitoring as well as outlet level switching capabilities for individual outlets or an outlet bank
- Can also be used for environmental monitoring through sensors and electronic rack access control through electronic swing-handles (each sold separately)

| Part Number                        | Input Current Per Phase | Form Factor    | Input Plug Type     | Apparent Power (kVA) | Outlet Count | Outlet Configuration | Length (mm) | Width (mm) | Depth (mm) at Outlet Position | Std. Pkg. Qty. |
|------------------------------------|-------------------------|----------------|---------------------|----------------------|--------------|----------------------|-------------|------------|-------------------------------|----------------|
| <b>100-240VAC, 1-Phase</b>         |                         |                |                     |                      |              |                      |             |            |                               |                |
| P08E25M                            | 16                      | 1U             | IEC 60309 2P+E 6h   | 3.7                  | 8            | (8)C13               | 44.0        | 443.5      | 269.8                         | 1              |
| P16E27M                            | 16                      | 0U HALF        | IEC 60309 2P+E 6h   | 3.7                  | 16           | (12)C13, (4)C19      | 917.0       | 52.0       | 53.0                          | 1              |
| P24E04M                            | 16                      | 0U MID         | IEC 60309 2P+E 6h   | 3.7                  | 24           | (20)C13, (4)C19      | 1490.0      | 52.0       | 53.0                          | 1              |
| <b>200-240VAC, 1-Phase</b>         |                         |                |                     |                      |              |                      |             |            |                               |                |
| P08E05M                            | 32                      | 1U             | IEC 60309 2P+E 6h   | 7.4                  | 8            | (8)C13               | 44.0        | 443.5      | 269.8                         | 1              |
| P16E26M                            | 32                      | 2U             | IEC 60309 2P+E 6h   | 7.4                  | 16           | (12)C13, (4)C19      | 87.0        | 443.5      | 269.8                         | 1              |
| P24E01M                            | 32                      | 0U FULL        | IEC 60309 2P+E 6h   | 7.4                  | 24           | (20)C13, (4)C19      | 1750.0      | 52.0       | 53.0                          | 1              |
| P32E06M                            | 32                      | 0U FULL        | IEC 60309 2P+E 6h   | 7.4                  | 32           | (24)C13, (8)C19      | 1750.0      | 52.0       | 53.0                          | 1              |
| P44E07M                            | 32                      | 0U FULL - wide | IEC 60309 2P+E 6h   | 7.4                  | 44           | (38)C13, (6)C19      | 1750.0      | 85.0       | 53.0                          | 1              |
| <b>200-240/346-415VAC, 3-Phase</b> |                         |                |                     |                      |              |                      |             |            |                               |                |
| P24E02M                            | 16                      | 0U FULL        | IEC 60309 3P+N+E    | 11.0                 | 24           | (18)C13, (6)C19      | 1750.0      | 52.0       | 53.0                          | 1              |
| P36E08M                            | 16                      | 0U FULL        | IEC 60309 3P+N+E 6h | 11.0                 | 36           | (30)C13, (6)C19      | 1750.0      | 52.0       | 53.0                          | 1              |
| P24E03M                            | 32                      | 0U FULL        | IEC 60309 3P+N+E 6h | 22.0                 | 24           | (12)C13, (12)C19     | 1750.0      | 52.0       | 53.0                          | 1              |
| P36E09M                            | 32                      | 0U FULL Wide   | IEC 60309 3P+N+E 6h | 22.0                 | 36           | (24)C13, (12)C19     | 1750.0      | 85.0       | 53.0                          | 1              |

## Monitored Per Outlet (MPO Series)

- Can provide outlet level and aggregate power monitoring to quickly identify potential power issues and reclaim available or under-utilized power capacity at the outlet level
- Can also be used for environmental monitoring through sensors and electronic rack access control through electronic swing-handles (each sold separately)

| Part Number                | Input Current Per Phase | Form Factor    | Input Plug Type     | Apparent Power (kVA) | Outlet Count | Outlet Configuration | Length (mm) | Width (mm) | Depth (mm) at Outlet Position | Std. Pkg. Qty. |
|----------------------------|-------------------------|----------------|---------------------|----------------------|--------------|----------------------|-------------|------------|-------------------------------|----------------|
| <b>100-240VAC, 1-Phase</b> |                         |                |                     |                      |              |                      |             |            |                               |                |
| P24F06M                    | 32                      | 0U FULL        | IEC 60309 2P+E 6h   | 7.4                  | 24           | (20)C13, (4)C19      | 1750.0      | 52.0       | 53.0                          | 1              |
| P32F10M                    | 32                      | 0U FULL        | IEC 60309 2P+E 6h   | 7.4                  | 32           | (24)C13, (8)C19      | 1750.0      | 52.0       | 53.0                          | 1              |
| <b>415VAC, 3-Phase</b>     |                         |                |                     |                      |              |                      |             |            |                               |                |
| P36F12M                    | 16                      | 0U FULL        | IEC 60309 3P+N+E 6h | 11.0                 | 36           | (30)C13, (6)C19      | 1750.0      | 52.0       | 53.0                          | 1              |
| P24F08M                    | 32                      | 0U FULL        | IEC 60309 3P+N+E 6h | 22.0                 | 24           | (12)C13, (12)C19     | 1750.0      | 52.0       | 53.0                          | 1              |
| P36F13M                    | 32                      | 0U FULL - wide | IEC 60309 3P+N+E 6h | 22.0                 | 36           | (24)C13, (12)C19     | 1750.0      | 85.0       | 53.0                          | 1              |

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## Monitored and Switched Per Outlet (MSPO Series)

- Can provide outlet level and aggregate power monitoring to quickly identify potential power issues and reclaim available or under-utilized power capacity at the outlet level
- Can also be used for environmental monitoring through sensors and electronic rack access control through electronic swing-handles (each sold separately)

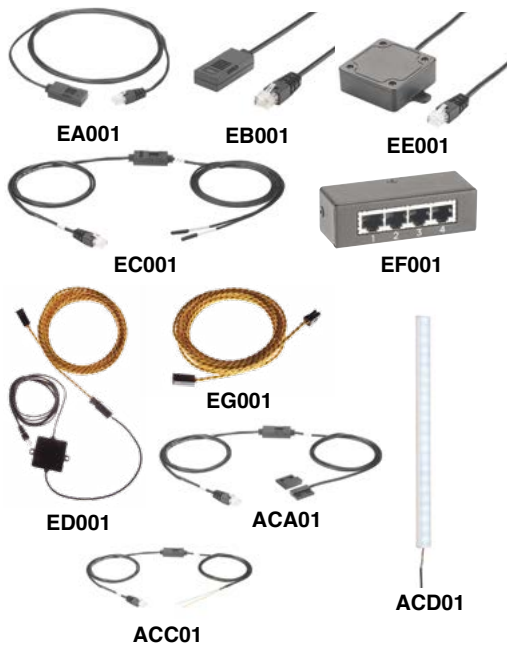
| Part Number                         | Input Current Per Phase | Form Factor    | Input Plug Type     | Apparent Power (kVA) | Outlet Count | Outlet Configuration | Length (mm) | Width (mm) | Depth (mm) at Outlet Position | Std. Pkg. Qty. |
|-------------------------------------|-------------------------|----------------|---------------------|----------------------|--------------|----------------------|-------------|------------|-------------------------------|----------------|
| <b>100-240VAC, 1-Phase</b>          |                         |                |                     |                      |              |                      |             |            |                               |                |
| P08G10M                             | 16                      | 1U             | IEC 60309 2P+E 6h   | 3.7                  | 8            | (8)C13               | 44.0        | 443.5      | 269.8                         | 1              |
| P24G11M                             | 16                      | 0U MID         | IEC 60309 2P+E 6h   | 3.7                  | 24           | (20)C13, (4)C19      | 1490.0      | 52.0       | 53.0                          | 1              |
| <b>200-240VAC, 1-Phase</b>          |                         |                |                     |                      |              |                      |             |            |                               |                |
| P08G12M                             | 32                      | 1U             | IEC 60309 2P+E 6h   | 7.4                  | 8            | (8)C13               | 44.0        | 443.5      | 269.8                         | 1              |
| P24G06M                             | 32                      | 0U FULL        | IEC 60309 2P+E 6h   | 7.4                  | 24           | (20)C13, (4)C19      | 1750.0      | 52.0       | 53.0                          | 1              |
| P32G13M                             | 32                      | 0U FULL        | IEC 60309 2P+E 6h   | 7.4                  | 32           | (24)C13, (8)C19      | 1750.0      | 52.0       | 53.0                          | 1              |
| P44G14M                             | 32                      | 0U FULL - wide | IEC 60309 2P+E 6h   | 7.4                  | 44           | (38)C13, (6)C19      | 1750.0      | 85.0       | 53.0                          | 1              |
| <b>200-240/346-415 VAC, 3-Phase</b> |                         |                |                     |                      |              |                      |             |            |                               |                |
| P36G15M                             | 16                      | 0U FULL        | IEC 60309 3P+N+E 6h | 11.0                 | 36           | (30)C13, (6)C19      | 1750.0      | 52.0       | 53.0                          | 1              |
| P24G08M                             | 32                      | 0U FULL        | IEC 60309 3P+N+E 6h | 22.0                 | 24           | (12)C13, (12)C19     | 1750.0      | 52.0       | 53.0                          | 1              |
| P36G16M                             | 32                      | 0U FULL Wide   | IEC 60309 3P+N+E 6h | 22.0                 | 36           | (24)C13, (12)C19     | 1750.0      | 85.0       | 53.0                          | 1              |

## Basic Power Distribution Units

- Basic PDUs have the capability to distribute highly reliable power to IT equipment in the rack or cabinet

| Part Number                         | Input Current Per Phase | Form Factor | Input Plug Type         | Apparent Power (kVA) | Outlet Count | Outlet Configuration | Length (mm) | Width (mm) | Depth (mm) at Outlet Position | Std. Pkg. Qty. |
|-------------------------------------|-------------------------|-------------|-------------------------|----------------------|--------------|----------------------|-------------|------------|-------------------------------|----------------|
| <b>100-240VAC, 1-Phase</b>          |                         |             |                         |                      |              |                      |             |            |                               |                |
| P12B34M                             | 16                      | 1U          | IEC 60309 2P+E 6h 16A   | 3.7                  | 12           | (12)C13              | 44.0        | 443.5      | 269.8                         | 1              |
| P22B39M                             | 16                      | 0U HALF     | IEC 60309 2P+E 6h 16A   | 3.7                  | 22           | (20)C13, (2)C19      | 917.0       | 52.0       | 53.0                          | 1              |
| <b>200-240VAC, 1-Phase</b>          |                         |             |                         |                      |              |                      |             |            |                               |                |
| P06B35M                             | 32                      | 1U          | IEC 60309 2P+E 6h 32A   | 7.4                  | 6            | (6)C19               | 44.0        | 443.5      | 269.8                         | 1              |
| P12B36M                             | 32                      | 1U          | IEC 60309 2P+E 6h 32A   | 7.4                  | 12           | (12)C13              | 44.0        | 443.5      | 269.8                         | 1              |
| P20B40M                             | 32                      | 0U HALF     | IEC 60309 2P+E 6h 32A   | 7.4                  | 20           | (20)C13              | 917.0       | 52.0       | 53.0                          | 1              |
| P30B06M                             | 32                      | 0U MID      | IEC 60309 2P+E 6h 32A   | 7.4                  | 30           | (24)C13, (6)C19      | 1490.0      | 52.0       | 53.0                          | 1              |
| P42B42M                             | 32                      | 0U MID      | IEC 60309 2P+E 6h 32A   | 7.4                  | 42           | (24)C13, (6)C19      | 1490.0      | 52.0       | 53.0                          | 1              |
| P36B43M                             | 48                      | 0U MID      | IEC 60309 2P+E 6h 63A   | 11.0                 | 36           | (24)C13, (6)C19      | 1490.0      | 52.0       | 53.0                          | 1              |
| <b>200-240/346-415 VAC, 3-Phase</b> |                         |             |                         |                      |              |                      |             |            |                               |                |
| P06B37M                             | 16                      | 1U          | IEC 60309 3P+N+E 6h 16A | 11.0                 | 6            | (6)C19               | 44.0        | 443.5      | 269.8                         | 1              |
| P06B38M                             | 32                      | 1U          | IEC 60309 3P+N+E 6h 32A | 22.0                 | 6            | (6)C19               | 44.0        | 443.5      | 269.8                         | 1              |
| P42B44M                             | 16                      | 0U MID      | IEC 60309 3P+N+E 6h 16A | 11.0                 | 42           | (24)C13, (6)C19      | 1490.0      | 85.0       | 53.0                          | 1              |
| P30B13M                             | 16                      | 0U MID      | IEC 60309 3P+N+E 6h 16A | 11.0                 | 30           | (36)C13, (6)C19      | 1490.0      | 52.0       | 53.0                          | 1              |
| P24B12M                             | 32                      | 0U FULL     | IEC 60309 3P+N+E 6h 32A | 22.0                 | 24           | (12)C13, (12)C19     | 1750.0      | 52.0       | 53.0                          | 1              |
| P42B11M                             | 32                      | 0U FULL     | IEC 60309 3P+N+E 6h 32A | 22.0                 | 42           | (30)C13, (12)C19     | 1750.0      | 52.0       | 53.0                          | 1              |

## SmartZone™ G5 Accessories Environmental



| Part Number | Description                     | Dimensions L x W x H (mm)                | Length (M) | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|---------------------------------|--|------------|----------------|----------------|
| EA001       | Temperature Sensor              | 44 x 21 x 11                             | 2          | 1              | 1              |
| EB001       | Temperature + Humidity Sensor   | 44 x 21 x 11                             | 2          | 1              | —              |
| EC001       | 3 Temperature + Humidity Sensor | 44 x 21 x 11                             | 2          | 1              | —              |
| ED001       | Water – Rope                    | 60 x 60 x 22                             | 2          | 1              | —              |
| EE001       | Water – Spot                    | 60 x 60 x 22                             | 5          | 1              | —              |
| EF001       | 3 Sensor Hub                    | 85 x 32 x 27                             | N/A        | 1              | —              |
| EG001       | Water – Rope extension          | N/A                                      | 2          | 1              | —              |
| EAC001      | Door Switch (magnetic 2 piece)  | 44 x 21 x 11<br>(29 x 19 x 7 for magnet) | 1          | 1              | 1              |
| ACC001      | Dry Contact Input               | 44 x 21 x 11                             | 1.8        | 1              | —              |
| ACD001      | USB Light Strip                 | 382 x 17 x 12                            | N/A        | 1              | —              |

## Security



| Part Number | Description  | Length (M) | Std. Pkg. Qty. |
|-------------|--|------------|----------------|
| ACF05       | SmartZone™ Security Handle with Humidity Sensor and Card Reader          | N/A        | 1              |
| ACF06       | SmartZone™ Security Handle with Humidity Sensor and Card Reader + Keypad | N/A        | 1              |
| ACF10       | SmartZone™ Handle T + Door Sensor  | 2.3        | 1              |
| ACF11       | SmartZone™ Handle 3T + Door Sensor                                       | 3.0        | 1              |
| ACF20       | SmartZone™ Handle to iPDU Harness  | 2.8        | 1              |

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### Dual Locking Power Cords



| Part Number (10 pk)                            | Description         | Ratings  | Gauge/Cross Section Area  | Jacket      | Connector Angle | Length (M) | Color |
|--|---------------------|----------|---------------------------|-------------|-----------------|------------|-------|
| <b>Locking Cable Images C14 to C13</b>         |                     |          |                           |             |                 |            |       |
| LPCA01X  | IEC C14 to IEC C13  | 10A/250V | 17AWG/ 1.0mm <sup>2</sup> | SJT/H05VV-F | Straight        | 0.6        | Red   |
| LPCA02X  | IEC C14 to IEC C13  | 10A/250V | 17AWG/ 1.0mm <sup>2</sup> | SJT/H05VV-F | Straight        | 0.9        | Red   |
| LPCA03X  | IEC C14 to IEC C13  | 10A/250V | 17AWG/ 1.0mm <sup>2</sup> | SJT/H05VV-F | Straight        | 1.2        | Red   |
| LPCA04X  | IEC C14 to IEC C13  | 10A/250V | 17AWG/ 1.0mm <sup>2</sup> | SJT/H05VV-F | Straight        | 1.8        | Red   |
| LPCA06X  | IEC C14 to IEC C13  | 10A/250V | 17AWG/ 1.0mm <sup>2</sup> | SJT/H05VV-F | Straight        | 0.6        | Blue  |
| LPCA07X  | IEC C14 to IEC C136 | 10A/250V | 17AWG/ 1.0mm <sup>2</sup> | SJT/H05VV-F | Straight        | 0.9        | Blue  |
| LPCA08X  | IEC C14 to IEC C13  | 10A/250V | 17AWG/ 1.0mm <sup>2</sup> | SJT/H05VV-F | Straight        | 1.2        | Blue  |
| LPCA09X  | IEC C14 to IEC C13  | 10A/250V | 17AWG/ 1.0mm <sup>2</sup> | SJT/H05VV-F | Straight        | 1.8        | Blue  |
| LPCA11X  | IEC C14 to IEC C13  | 10A/250V | 17AWG/ 1.0mm <sup>2</sup> | SJT/H05VV-F | Straight        | 0.6        | Black |
| LPCA12X  | IEC C14 to IEC C13  | 10A/250V | 17AWG/ 1.0mm <sup>2</sup> | SJT/H05VV-F | Straight        | 0.9        | Black |
| LPCA13X  | IEC C14 to IEC C13  | 10A/250V | 17AWG/ 1.0mm <sup>2</sup> | SJT/H05VV-F | Straight        | 1.2        | Black |
| LPCA14X  | EC C14 to IEC C13   | 10A/250V | 17AWG/ 1.0mm <sup>2</sup> | SJT/H05VV-F | Straight        | 1.8        | Black |
| <b>Locking Cable Images IEC C20 to IEC C19</b> |                     |          |                           |             |                 |            |       |
| LPCB01X  | IEC C20 to IEC C19  | 16A/250V | 15AWG/ 1.5mm <sup>2</sup> | SJT/H05VV-F | Straight        | 0.6        | Red   |
| LPCB02X  | IEC C20 to IEC C19  | 16A/250V | 15AWG/ 1.5mm <sup>2</sup> | SJT/H05VV-F | Straight        | 0.9        | Red   |
| LPCB03X  | IEC C20 to IEC C19  | 16A/250V | 15AWG/ 1.5mm <sup>2</sup> | SJT/H05VV-F | Straight        | 1.2        | Red   |
| LPCB04X  | IEC C20 to IEC C19  | 16A/250V | 15AWG/ 1.5mm <sup>2</sup> | SJT/H05VV-F | Straight        | 1.8        | Red   |
| LPCB06X  | IEC C20 to IEC C19  | 16A/250V | 15AWG/ 1.5mm <sup>2</sup> | SJT/H05VV-F | Straight        | 0.6        | Blue  |
| LPCB07X  | IEC C20 to IEC C19  | 16A/250V | 15AWG/ 1.5mm <sup>2</sup> | SJT/H05VV-F | Straight        | 0.9        | Blue  |
| LPCB08X  | IEC C20 to IEC C19  | 16A/250V | 15AWG/ 1.5mm <sup>2</sup> | SJT/H05VV-F | Straight        | 1.2        | Blue  |
| LPCB09X  | IEC C20 to IEC C19  | 16A/250V | 15AWG/ 1.5mm <sup>2</sup> | SJT/H05VV-F | Straight        | 1.8        | Blue  |
| LPCB11X  | IEC C20 to IEC C19  | 16A/250V | 15AWG/ 1.5mm <sup>2</sup> | SJT/H05VV-F | Straight        | 0.6        | Black |
| LPCB12X  | IEC C20 to IEC C19  | 16A/250V | 15AWG/ 1.5mm <sup>2</sup> | SJT/H05VV-F | Straight        | 0.9        | Black |
| LPCB13X  | IEC C20 to IEC C19  | 16A/250V | 15AWG/ 1.5mm <sup>2</sup> | SJT/H05VV-F | Straight        | 1.2        | Black |
| LPCB14X  | IEC C20 to IEC C19  | 16A/250V | 15AWG/ 1.5mm <sup>2</sup> | SJT/H05VV-F | Straight        | 1.8        | Black |

## SmartZone™ PVIQ™ Connectivity

Research shows that half of all network problems arise from issues in the physical infrastructure. Yet the physical infrastructure is largely overlooked. Without real-time monitoring and visibility into dense physical layer connectivity and related data center infrastructure information, enterprises are vulnerable to a number of risks such as malicious disconnects or malicious tracing (to steal private information), and avoiding accidental disconnects creating unnecessary downtime.



Front View



Rear View



Panduit SmartZone™ Connectivity combines Panduit PVIQ™ Connectivity Hardware and Panduit PVIQ™ Connectivity Firmware to provide a secure connectivity solution.

Giving the user higher network visibility through intelligent monitoring devices and pre-defined WebGUI dashboards.

This solution will enhance security by monitoring for equipment disconnects in data centers as well as remote Edge Data Center & Colo Data Center for tenants.

This combined approach helps optimize data center operations as enterprises embark on server virtualization, private and cloud computing initiatives.

### Part of Panduit's End-To-End Intelligent Data Center Solutions

Physical Infrastructure Management PanView iQ™ (PVIQ™) System Hardware is a critical part of Panduit's Intelligent Data Center Solutions, which embody the next wave of systems integration and risk management by aligning and harmonizing critical systems to support the delivery of secure, energy-efficient, always-on, real-time data and services.

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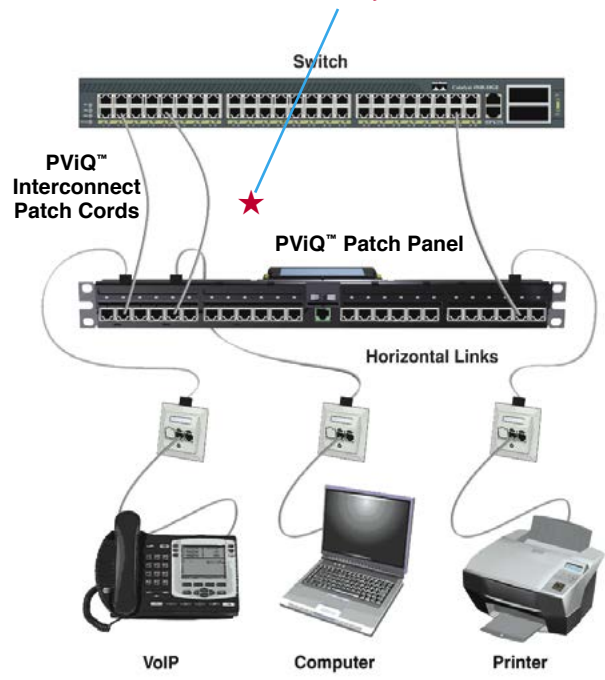
### SmartZone™ PViQ™ Connectivity Firmware

The Firmware provides the user a simple interface with a connectivity dashboard page for visual network connectivity status, patch configuration page to enable port provisioning, alarm page to show descriptive active alarms, and log page to show historical events of patching activity plus many more features.

- Per port security policy setting, monitoring and alerting
- Real-time information on network connectivity status
- Monitor and alert of any patch field changes
- Monitor connectivity-based security risks
- Harden security with advanced encryption
- WebGUI-based management system
- Interconnect and cross-connect connections
- Cable presence detection assurance
- Cable mapping and visual tracing
- Copper and fiber options
- Field upgradeable panel



**Set Port Security Policy for Interconnect and Cross-Connect**  
*Cord Disconnect or Connect Security Alert:*



### PViQ™ Standalone Solution

- Local visual alert
- Recovery instructions
- Audit trail completed
- Event alert sent

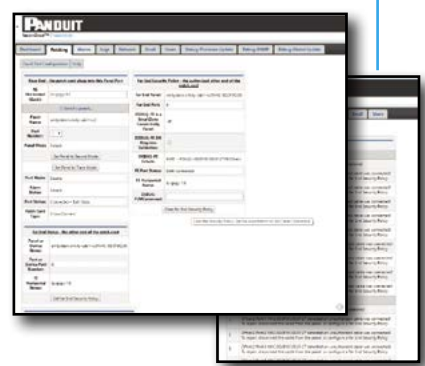


Real-Time Traps & Email (Disconnect, Connect, etc.)

WebGUI for remote access, configuration and upgrade

BYOD & Browser

Dashboards  
Alarms  
History





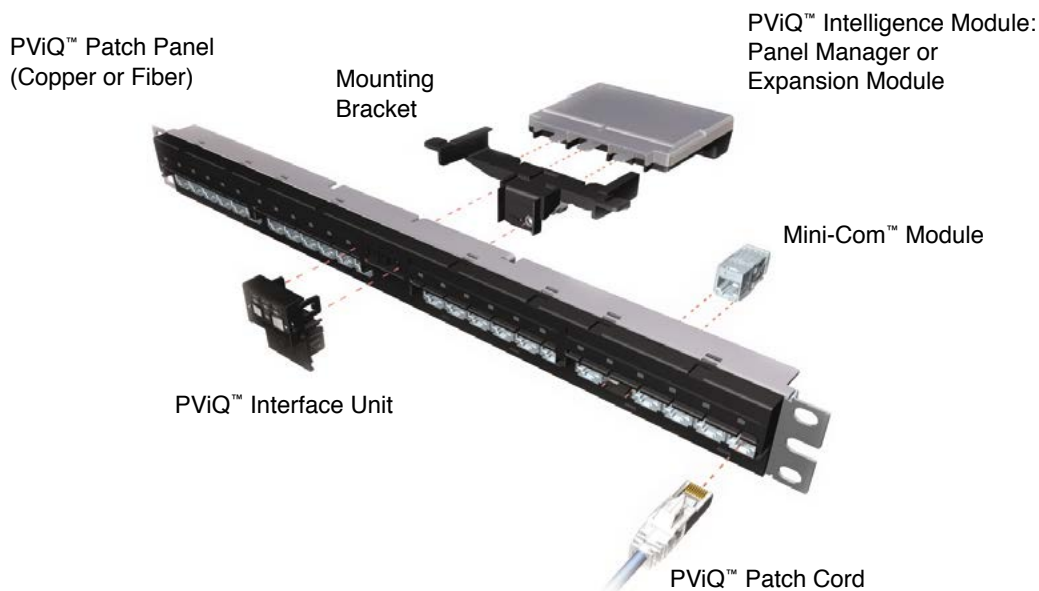
## SmartZone™ PViQ™ Connectivity Hardware

As part of the SmartZone™ Solutions portfolio, Panduit's PViQ™ System Hardware combines industry-leading innovation of intelligent cabinet devices with complete system management. This combination of active patch panels, cabling, power distribution units, and environmental sensors provides you with a complete data center solution. Information about these devices can be accessed on site or remotely through a web-based interface to troubleshoot and execute on physical infrastructure changes for greater efficiency and cost savings.

PViQ™ Hardware for Connectivity Management includes intelligent patch panels, fiber trays, modules, and cabling to provide continuous real-time patch field monitoring and visibility of physical infrastructure connectivity for enhanced system reliability and security and capacity management.

### PViQ™ Patch Panels

PViQ™ Patch Panels have been developed with functionality, scalability, and consideration for rack space efficiency. The innovative patch panel (copper or fiber) design gives IT Managers the option to phase installations (installing passive connectivity now and upgrading to a fully managed system at a later time) and to quickly swap out modules for upgrades or repairs without disrupting cabling or data traffic through the panels.



### PViQ™ Fiber Trays

PViQ™ Fiber Trays provide real-time physical layer management to the fiber channels in the network. These fiber trays provide the capability to map and monitor the fiber channels to efficiently manage resources and substantially reduce network operations cost. They provide the capability to automate network documentation and maintenance procedures for the physical layer, which in turn supports improved reliability, security, and increased overall network management efficiency.

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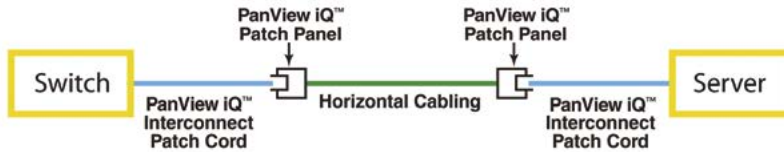
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### Interconnect Configurations

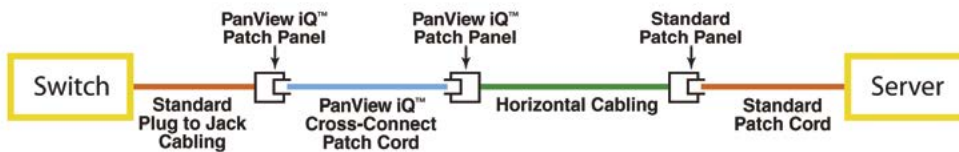
The interconnect configuration is ideal for data centers with limited space areas that have lower reconfiguration requirements and utilize higher density connections than other computing areas. The new PViQ™ System Hardware interconnect capability provides the assurance of accurate switch port provisioning and patch field documentation when monitored through the SmartZone™ Software Suite. This revolutionary design requires no additional cables, appliances, or obstructive overlays on network equipment which can interfere with port connections.



When network elements such as switches need to be reconfigured, the PViQ™ System provides LED guidance to ensure proper switch port allocation/de-allocation. Network elements such as servers can also be monitored at the physical layer to ensure proper connectivity. With the PViQ™ System Hardware, both ends of the switch-server relationship are monitored via the SmartZone™ Software Suite, which leads to quicker problem resolution and rapid service/application restoration.

### Cross-Connect Configurations

A cross-connect configuration is warranted in data centers where frequent Moves, Adds, Changes and application reconfigurations necessitate flexible and easily accessible patching connectivity.

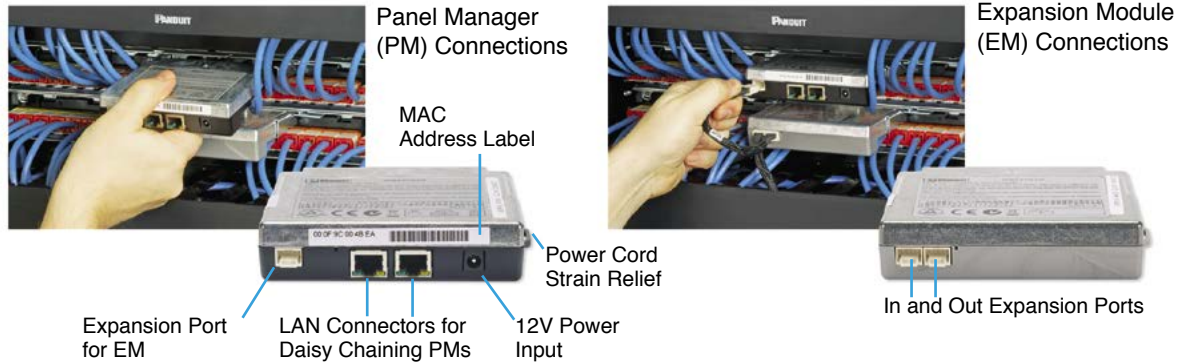


In cross-connect configurations, the highest density network element (such as the high-speed switch) is permanently cabled through the back of a PViQ™ Patch Panel with modular jacks. PViQ™ Patch Cords are then connected between the front of that panel and the remote PViQ™ Patch Panel cabled via horizontal runs to remote cabinets, typically containing other network elements (e.g., servers) or endpoint equipment (e.g., computers, IP phones, security equipment, etc.).

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## PViQ™ Intelligence Modules

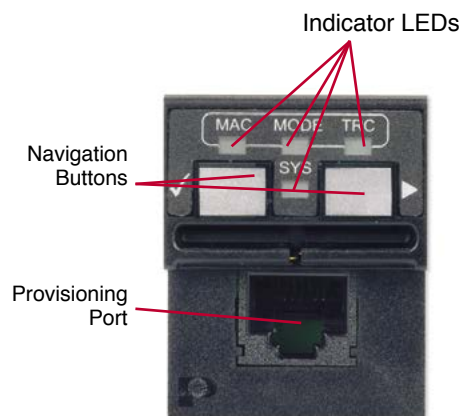
**Panel Manager (PM)** – The PViQ™ Panel Manager is designed to consolidate patch field scanning and management functions into a single, removable module. It contains an embedded web interface for remote management and access to connectivity information.



**Expansion Manager (EM)** – The PViQ™ Expansion Module cost effectively expands the scanning and management capabilities of the PViQ™ Panel Manager to additional patch panels.

## PViQ™ Interface Units

- Secure Mode** – Visually and audibly alerts users when any changes are made
- Trace Mode** – Visually verifies patch field connectivity at both ends of the patch cord
- Maintenance Mode** – Enables locally and remotely performed diagnostic services
- Learn Mode** – Allows ad hoc patching changes to be automatically updated in the database



Interface unit shown for PViQ™ Panel Manager (PM). Interface unit for PViQ™ Expansion Manager (EM) does not contain provisioning port.

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### PViQ™ Patch Panels

PViQ™ Patch Panels revolutionize intelligent physical infrastructure management by providing a modular and scalable approach to meet the demands of enterprise and data center installations. Standard copper and fiber cabling is used for all (horizontal link) terminations onto the back of these panels while unique PViQ™ Patch Cords are used for cross-connect or interconnect installations. The innovative design of PViQ™ Patch Panels permit cabling and data connectivity to be installed immediately with "intelligence ready" connections that allow the incremental growth and provisioning of panel management capabilities.

- Accommodates intelligent modules that mount in the rear and utilize no additional rack space (zero RU)
- Accepts all Mini-Com™ UTP, STP, and LC Fiber Optic Modules
- Accepts a PViQ™ Interface Unit to provide patch cord tracing and provisioning of switch ports with PViQ™ Interconnect Patch Cords or patch field mapping with PViQ™ Cross-Connect Patch Cords
- Mount to standard EIA 19" rack or 23" racks with optional extender bracket

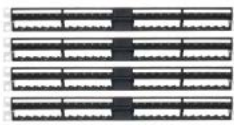
| Part Number                          | Part Description  | No. of Rack Spaces <sup>^</sup> | Std. Pkg. Qty. | Std. Ctn. Qty. |
|--------------------------------------|---|---------------------------------|----------------|----------------|
| <b>Angled PViQ™ Patch Panels</b>     |   |                                 |                |                |
| PVQ-MIQAPU24                         | 24-port unpopulated angled UTP modular intelligent module-ready patch panel. Accepts all Mini-Com™ UTP and LC Fiber Optic Modules.  | 1                               | 1              | 10             |
| PVQ-MIQAPS24                         | 24-port unpopulated angled STP modular intelligent module-ready patch panel. Accepts all Mini-Com™ STP Modules. Accepts all Mini-Com™ STP Modules.  |                                 |                |                |
| <b>Flat PViQ™ Patch Panels</b>       |   |                                 |                |                |
| PVQ-MIQPU24                          | 24-port unpopulated modular intelligent module ready patch panel accepts all Mini-Com™ UTP and LC Fiber Optic Modules.  | 1                               | 1              | 10             |
| PVQ-MIQPS24                          | 24-port unpopulated modular intelligent module ready patch panel accepts all Mini-Com™ STP Modules.   |                                 |                |                |
| <b>PViQ™ Hardware Kits</b>           |   |                                 |                |                |
| PVQ-MIQPS96F                         | For standard configurations, this 96-port modular intelligent panel kit includes four flat PViQ™ Patch Panels (PVQ-MIQPU24), one PViQ™ Panel Manager with interface unit, and three PViQ™ Expansion Modules with expansion port cables and interface units. Also includes one 1.5' (0.5m) RJ45 patch cord for connection to network switch or additional daisy-chained PViQ™ Panel Managers. (Power supply, PViQ™ Patch Cords and Mini-Com™ Jack Modules are not included and must be purchased separately.)    | 4                               | 1              | —              |
| PVQ-MIQPS96A                         | For standard configurations, this 96-port modular intelligent panel kit includes four angled PViQ™ Patch Panels (PVQ-MIQAPU24), one PViQ™ Panel Manager with interface unit, and three PViQ™ Expansion Modules with expansion port cables and interface units. Also includes one 1.5' (0.5m) RJ45 patch cord for connection to network switch or additional daisy-chained PViQ™ Panel Managers. (Power supply, PViQ™ Patch Cords and Mini-Com™ Jack Modules are not included and must be purchased separately.) |                                 |                |                |
| <b>PViQ™ Patch Panel Accessories</b> |   |                                 |                |                |
| PVQ-MIQAPCVR                         | Transitional cover for angled PViQ patch panels that occupies zero rack space.  | 1                               | 10             | —              |



PVQ-MIQAPU24



PVQ-MIQPU24



PVQ-MIQPS96F



PVQ-MIQPS96A

<sup>^</sup>One rack space = 1.75" (44.45mm).

PViQ™ Panel Manager requires proper country-specific power supply (PVQ-PS12VDC-E for Europe or PVQ-PS12VDC-U for United Kingdom) which must be ordered separately.



## PViQ™ Fiber Trays

- Provides real-time physical layer management to the fiber channels in the network
- Enhances usability and maintainability through an enclosure and drawer design that allows for easy access to the fiber connectivity
- An easily-accessible integrated mechanism for mounting a PM or EM module simplifies installation and maintenance
- Provides the capability to map and monitor the fiber channels to efficiently manage resources and substantially reduce network operations cost
- Provides the capability to automate network documentation and maintenance procedures for the physical layer
- Installable in a 19" standard TIA/EIA rack or cabinet utilizing 1RU of space



PVQ-FMT

| Part Number   | Part Description  | No. of Rack Spaces <sup>^</sup> | Std. Pkg. Qty. | Std. Ctn. Qty. |
|---------------|---|---------------------------------|----------------|----------------|
| PVQ-FMT       | 24-port PViQ™ Fiber Tray with no fiber adapters.  | 1                               | 1              | 1              |
| PVQ-FMTMTP-ZX | PViQ™ 24-Port OM3 MTP Fiber Tray including 24 (CMDSAQLCZBL) LC SR./SR. 10Gig™ SFF Duplex Multimode Aqua Adapters with Zirconia Ceramic Split Sleeves. |                                 |                |                |
| PVQ-FMTMTP-ZZ | PViQ™ 24-Port OM4 MTP Fiber Tray including 24 (CMDSAQLCZBL) LC SR./SR. 10Gig™ SFF Duplex Multimode Aqua Adapters with Zirconia Ceramic Split Sleeves. |                                 |                |                |
| PVQ-FMTMTP-9  | PViQ™ 24-Port, Single-Mode Fiber Tray including 24 (CMDSLCZBU) LC SR./SR. SFF Duplex Singlemode Blue Adapters with Zirconia Ceramic Split Sleeves.    |                                 |                |                |

<sup>^</sup>One rack space = 1.75" (44.45mm).

## PViQ™ Intelligent Modules

- Provides manageability for a PViQ™ Patch Panel
- Eliminates the need for additional rack space by attaching directly to the back of a PViQ™ Patch Panel
- Enables quick addition, removal, or replacement of intelligent modules to add management capabilities
- Supports both cross-connect and interconnect installations
- The intelligent panel manager (PM) module provides networking interface, power connection and expansion port connections
- The intelligent expansion module (EM) receives all power and data signals from the PM through the expansion port. Three EMs can be connected to one PM



PVQ-PM



PVQ-EM

| Part Number | Part Description  | Std. Pkg. Qty. |
|-------------|---|----------------|
| PVQ-PM      | Panel manager (includes mounting bracket, 1.5' (0.5m) RJ45 patch cord, and interface unit). | 1              |
| PVQ-EM      | Expansion module (includes mounting bracket, expansion port cable, and interface unit).     |                |

## PViQ™ Power Supply

- Provides 12 volts of regulated power
- One power supply required per panel manager module
- Offers flexible placement inside of rack
- 5 feet (1.5m) cord length



PVQ-PS12VDC-E

| Part Number   | Part Description             | Std. Pkg. Qty. |
|---------------|------------------------------|----------------|
| PVQ-PS12VDC-E | 30W power supply for Europe. | 1              |
| PVQ-PS12VDC-U | 30W power supply for UK.     |                |

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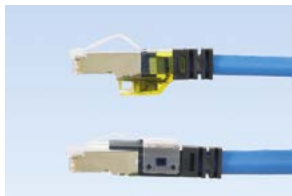


## PViQ™ Patch Cords

- PViQ™ Interconnect Patch Cords support connectivity between shielded non-PViQ™ enabled ports (e.g., switches with shielded jacks, servers with shielded jacks, etc.) and PViQ™ Panel Ports
- PViQ™ Cross-Connect Patch Cords manage and map the patch field between two PViQ™ Patch Panels
- All PViQ™ Patch Cords permit PViQ™ Panels to detect single-ended connections



PVQ-BIU6C3BU



PVQ-ES6X3BU



PVQXP10LQM



PVUTPSPC\*BBUY



PVF9L10-10M\*Y

| Part Number | Part Description | Length |    | Cable Color | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|------------------|--------|----|-------------|----------------|----------------|
|             |                  | Ft*    | m^ |             |                |                |

### Copper Interconnect Patch Cords – Basic

|               |   |   |   |      |   |    |
|---------------|---|---|---|------|---|----|
| PVQ-BIU6C3BU  | Category 6 UTP interconnect patch cord for use with PViQ™ patch panel, Communications (CM) rated.           | 3 | — | Blue | 1 | 10 |
| PVQ-BIU6C1MBU | Category 6 UTP interconnect patch cord for use with PViQ™ patch panel, Communications (CM) rated.           | — | 1 |      |   |    |
| PVQ-BIU6L1MBU | Category 6 UTP interconnect patch cord for use with PViQ™ patch panel, Low Smoke Zero Halogen (LSZH) rated. | — | 1 |      |   |    |

### Copper Interconnect Patch Cords – Enhanced

|               |  |   |   |      |   |    |
|---------------|--|---|---|------|---|----|
| PVQ-EU6AC3BU  | 10Gig™ UTP Enhanced Interconnect Patch Cord for use with PViQ™ Patch Panel, Communications (CM) rated. | 3 | — | Blue | 1 | 10 |
| PVQ-EU6AC1MBU | 10Gig™ UTP Enhanced Interconnect Patch Cord for use with PViQ™ Patch Panel, Communications (CM) rated. | — | 1 |      |   |    |
| PVQ-ES6X3BU   | 10Gig™ STP Enhanced Interconnect Patch Cord for use with PViQ™ Patch Panel, dual rated.                | 3 | — |      |   |    |
| PVQ-ES6X1MBU  | 10Gig™ STP Enhanced Interconnect Patch Cord for use with PViQ™ Patch Panel, dual rated.                | — | 1 |      |   |    |

### Fiber Interconnect Patch Cords

|                 |  |   |     |      |   |    |
|-----------------|--|---|-----|------|---|----|
| PVQXLE10LQM00.5 | PViQ™ duplex LC to duplex standard LC, OM3, fiber interconnect patch cord, LSZH rated, 1.6mm jacketed cable.     | — | 0.5 | Aqua | 1 | 10 |
| PVQZLE10LQM00.5 | PViQ™ duplex LC to duplex standard LC, OM4, fiber interconnect patch cord, LSZH rated, 1.6mm jacketed cable.     |   |     |      |   |    |
| PVQ9LE10LQM00.5 | PViQ™ duplex LC to duplex standard LC, OS1/OS2, fiber interconnect patch cord, LSZH rated, 1.6mm jacketed cable. |   |     |      |   |    |

### Cross-Connect Patch Cords

|                 |   |   |   |        |   |    |
|-----------------|---|---|---|--------|---|----|
| PVUTPSPC3BBUY   | Category 6 UTP patch cord for use with modular patch panel. | 3 | — | Blue   | 1 | 10 |
| PVUTPSPC1MBUY   | Category 6 UTP patch cord for use with modular patch panel. | — | 1 |        |   |    |
| PVSTP6X1MBBU    | Category 6A, STP modular 10Gig™ Patch Cord.                 |   |   |        |   |    |
| PVUTP6X1MBBU    | Category 6A, UTP modular 10Gig™ Patch Cord.                 |   |   |        |   |    |
| PVF9L10-10M0.5Y | Singlemode LSZH LC-LC patch cord.                           |   |   | Yellow |   |    |
| PVFXL10-10M0.5Y | Multimode LSZH OM3 LC-LC patch cord.                        |   |   | Yellow |   |    |

Additional lengths and colors available:

\*For lengths of 5, 7, 10, 14, or 20 feet, change the length designation in the part number to the desired length. For standard cable color other than BU (Blue), replace BU in the part number with GR (Green). For example, the part number for a green, 5-foot patch cord is PVQ-BIU6C5GR.

^For lengths of 2, 3, 5, or 10 meters, change the length designation in the part number to the desired length. For standard cable color other than BU (Blue), replace BU with WH (White). For example, the part number for a white 2-meter patch cord is PVQ-BIU6L2MWH.

Contact Panduit Customer Service for lead times and for non-standard lengths and colors.

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### € Tak-Ty™ Hook & Loop Cable Ties

- Soft, premium material is safe to use on high performance network cables protecting against over-tensioning
- Broad selection of durable designs and sizes
- Adjustable, releasable, and re-usable hundreds of times – ideal for applications requiring frequent moves, adds, or changes
- Easy to use and operator safe with no sharp edges
- A full range of colors
- Operating temperature range: 0°F to 220°F (-18°C to 104°C)
- Complementary mounts available



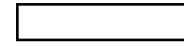
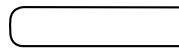
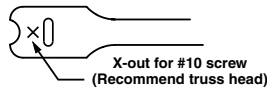
HLT (Loop Ties)



HLB (Stacked Strips)



HLM/HLS (Rolls)



| Part Number | Length |    | Width |    | Max. Bundle Dia. |    | Min. Loop Tensile Strength* |   |
|-------------|--------|----|-------|----|------------------|----|-----------------------------|---|
|             | In.    | mm | In.   | mm | In.              | mm | Lbs.                        | N |

#### Loop Ties – Slot allows for pre-wrapping of bundles

| Part Number                    | Length (In.) | Length (mm) | Width (In.) | Width (mm) | Max. Bundle Dia. (In.) | Max. Bundle Dia. (mm) | Min. Loop Tensile Strength (Lbs.) | Min. Loop Tensile Strength (N) |
|--------------------------------|--------------|-------------|-------------|------------|------------------------|-----------------------|-----------------------------------|--------------------------------|
| <b>BEST SELLER</b><br>HLT2I-X0 | 8.00         | 203.0       | 0.50        | 12.7       | 1.91                   | 49.0                  | 40                                | 178                            |
| HLT2I-M0                       |              |             |             |            |                        |                       |                                   |                                |
| HLT2I-X6                       |              |             |             |            |                        |                       |                                   |                                |
| HLT2I-X7                       |              |             |             |            |                        |                       |                                   |                                |
| HLT2I-X10                      |              |             |             |            |                        |                       |                                   |                                |
| HLT2I-X15                      |              |             |             |            |                        |                       |                                   |                                |
| HLT3I-X0                       | 12.00        | 305.0       | 0.75        | 19.1       | 3.18                   | 81.0                  | 50                                | 222                            |
| HLT3I-X6                       |              |             |             |            |                        |                       |                                   |                                |
| HLT3I-M0                       |              |             |             |            |                        |                       |                                   |                                |
| HLT3I-X7                       |              |             |             |            |                        |                       |                                   |                                |
| HLT3I-X10                      |              |             |             |            |                        |                       |                                   |                                |
| HLT3I-X15                      |              |             |             |            |                        |                       |                                   |                                |
| HLT3I-X16                      |              |             |             |            |                        |                       |                                   |                                |

#### Stacked Strip Ties – Eliminates cutting ties to length and staging them for each job Rounded edges for installer safety – 100 pieces

|          |      |       |      |      |      |      |    |     |
|----------|------|-------|------|------|------|------|----|-----|
| HLB2S-C0 | 7.00 | 178.0 | 0.75 | 19.1 | 1.60 | 41.0 | 50 | 222 |
|----------|------|-------|------|------|------|------|----|-----|

\*Minimum 2 inch overlap required to achieve loop tensile rating.

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## € Tak-Ty™ Hook & Loop Cable Ties (continued)

| Part Number   | Length |      | Width |      | Max. Bundle Dia. |         | Min. Loop Tensile Strength* |     |
|---|--------|------|-------|------|------------------|---------|-----------------------------|-----|
|   | Ft.    | m    | In.   | mm   | In.              | mm      | Lbs.                        | N   |
| <b>15' and 75' Continuous Rolls – Can be cut to desired length, eliminating waste</b> |        |      |       |      |                  |         |                             |     |
| <b>BEST SELLER</b><br>HLM-15R0  | 15.0   | 4.6  | 0.33  | 8.40 | Various          | Various | 18                          | 80  |
| HLM-15R6  |        |      |       |      |                  |         |                             |     |
| HLM-15R7  |        |      |       |      |                  |         |                             |     |
| HLM-15R10   |        |      |       |      |                  |         |                             |     |
| HLM-15R15   |        |      |       |      |                  |         |                             |     |
| HLM-15R16   |        |      |       |      |                  |         |                             |     |
| <b>BEST SELLER</b><br>HLS-15R0  | 75.0   | 22.9 | 0.75  | 19.1 | Various          | Various | 50                          | 222 |
| HLS-15R7  |        |      |       |      |                  |         |                             |     |
| HLS15R10  |        |      |       |      |                  |         |                             |     |
| HLS-15R15   |        |      |       |      |                  |         |                             |     |
| HLS15R16  |        |      |       |      |                  |         |                             |     |
| <b>BEST SELLER</b><br>HLS-75R0  |        |      |       |      |                  |         |                             |     |
| HLS-75R6  |        |      |       |      |                  |         |                             |     |
| HLS-75R7  |        |      |       |      |                  |         |                             |     |
| HLS-75R15   |        |      |       |      |                  |         |                             |     |
| HLS-75R16   |        |      |       |      |                  |         |                             |     |

\*Minimum 2 inch overlap required to achieve loop tensile rating.

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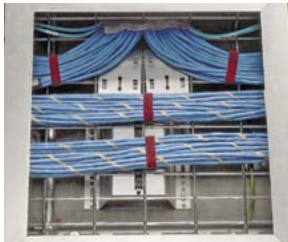
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### UL LISTED CECS HLTP/HLSP Hook and Loop Cable Ties

- Soft, premium material is safe to use on high performance network cables protecting against over-tensioning
- UL Listed for use in air handling spaces (such as ceiling voids and underfloor areas) per NEC, Section 300-22 (C) and (D)
- Material flammability rating: UL 94V-2
- Adjustable, releasable, and re-usable – ideal for applications requiring frequent moves, adds, or changes
- Operating temperature range: 0°F – 122°F (-18°C – 50°C)



| Part Number | Length |   | Width |    | Max. Bundle Dia. |    | Min. Loop Tensile Str.* |   |
|-------------|--------|---|-------|----|------------------|----|-------------------------|---|
|             | In.    | m | In.   | mm | In.              | mm | Lbs.                    | N |

#### UL Listed Loop Ties (Maroon) – Slot allows for pre-wrapping of bundles

|            |      |       |      |      |      |      |    |     |
|------------|------|-------|------|------|------|------|----|-----|
| HLTP2I-X12 | 8.00 | 203.0 | 0.50 | 12.7 | 1.91 | 49.0 | 40 | 178 |
|------------|------|-------|------|------|------|------|----|-----|

#### UL Listed Loop Ties (Black) – Slot allows for pre-wrapping of bundles

|           |       |       |      |      |      |      |    |     |
|-----------|-------|-------|------|------|------|------|----|-----|
| HLTP3I-X0 | 12.00 | 305.0 | 0.50 | 12.7 | 3.18 | 81.0 | 40 | 178 |
|-----------|-------|-------|------|------|------|------|----|-----|

#### UL Listed Strip Ties (Maroon) – Perforated in convenient 12 and 18 inch strips

|            |       |       |      |      |      |       |    |     |
|------------|-------|-------|------|------|------|-------|----|-----|
| HLSP3S-X12 | 12.00 | 305.0 | 0.75 | 19.1 | 3.20 | 81.0  | 50 | 222 |
| HLSP5S-X12 | 18.00 | 457.0 |      |      | 5.00 | 127.0 |    |     |

#### UL Listed Strip Ties (Black) – Perforated in convenient 6, 12, and 18 inch strips

|             |       |       |      |      |      |       |    |     |
|-------------|-------|-------|------|------|------|-------|----|-----|
| HLSP1.5S-X0 | 6.00  | 152.0 | 0.75 | 19.1 | 1.50 | 38.0  | 50 | 222 |
| HLSP3S-X0   | 12.00 | 305.0 |      |      | 3.20 | 81.0  |    |     |
| HLSP5S-X0   | 18.00 | 457.0 |      |      | 5.00 | 127.0 |    |     |

\*Minimum 2 inch overlap required to achieve loop tensile rating.

### CECS Tak-Tape™ Hook & Loop Cable Tie Rolls

- Strong, low profile, flexible material is safe to use on high performance cabling protecting against over-tensioning
- Adjustable, releasable, and re-usable
- Cost-effective for general purpose bundling
- Leaves no residue
- Available in black color
- Operating temperature range: 0°F – 220°F (-17°C – 104°C)



| Part Number | Length |      | Width |      | Max. Bundle Dia. |         | Min. Loop Tensile Str.* |     |
|-------------|--------|------|-------|------|------------------|---------|-------------------------|-----|
|             | Ft.    | m    | In.   | mm   | In.              | mm      | Lbs.                    | N   |
| TTR-20R0    | 20.0   | 6.1  | 0.75  | 19.1 | Various          | Various | 40                      | 178 |
| TTR-35R3-0  | 35.0   | 10.7 |       |      |                  |         |                         |     |
| TTR-35RX0   | 75     | 22.9 |       |      |                  |         |                         |     |

BEST SELLER

\*Minimum 2 inch overlap required to achieve loop tensile rating.



## Ultra-Cinch™ Hook & Loop Cable Ties

- Unique material with hooks and loops on same side allows user to secure a greater range of bundle diameters, including smaller bundles
- Soft, premium material is safe to use on high performance cabling, protecting against over-tensioning
- Adjustable, releasable, and re-usable – ideal for applications requiring frequent moves, adds, or changes
- Low profile contoured cinch ring provides extra strength and bundle tightness while reducing overall bundle size
- Grommet (UGCTC and UGCTE styles) offers strength and assures reliable installations that resist pullout when bundling and mounting cables within cabinet applications
- Tapered tip facilitates easy, snag-free threading to speed installation
- Use flat head screws for grommet applications
- A full range of colors
- Operating temperature range: 0°F – 140°F (-18°C – 60°C)



| Part Number                          | Length |       | Width |      | Max. Bundle Dia. |      | Min. Loop Tensile Str.* |     |
|--------------------------------------|--------|-------|-------|------|------------------|------|-------------------------|-----|
|                                      | In.    | m     | In.   | mm   | In.              | mm   | Lbs.                    | N   |
| <b>Cinch Ties</b>                    |        |       |       |      |                  |      |                         |     |
| UCT3S-X0                             | 12.00  | 305.0 | 0.85  | 21.6 | 3.00             | 76.0 | 50                      | 222 |
| <b>Cinch Ties with Brass Grommet</b> |        |       |       |      |                  |      |                         |     |
| UGCTC3S-X0                           | 12.00  | 305.0 | 0.85  | 21.6 | 3.00             | 76.0 | 50                      | 222 |
| UGCTE3S-X0                           | 12.00  | 305.0 |       |      | 3.00             | 76.0 |                         |     |

0.25 inch (6mm) diameter mounting hole on grommet style cinch ties.  
 \*Minimum 2 inch overlap required to achieve loop tensile rating.

## Cable Bundle Organizing Tool

- Reduces cable installation time compared to traditional methods
- Arranges 24 cables prior to applying Panduit™ Tak-Ty™ Hook & Loop Cable Ties
- Optimizes bundle size and improves installed appearance
- Two inserts handle multiple network cable diameters
- Ergonomic fit and compact design
- Impact resistant material and low friction design to glide smoothly across cable bundle



| Part Number    | Description  | Insert Color       | Cable Diameter Range |           |
|----------------|--|--------------------|----------------------|-----------|
|                |  |                    | In.                  | mm        |
| <b>CBOT24K</b> | Kit contains jacket cover with hook and loop fastener and two inserts. | Fluorescent Green  | 0.18 – 0.25          | 4.6 – 6.3 |
|                |  | Fluorescent Yellow | 0.23 – 0.31          | 5.8 – 7.9 |



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- Elastic material provides a flexible tie body that safely contours around cable bundle, preventing over-tensioning of data cables to maintain network integrity
- Constructed of TPU Material
- UL 94V-0 material provides greater flame resistance; meets stringent telecommunication flammability requirements (such as NEBS GR-63-CORE)
- Soft material has no sharp edges; protects the installer and the cable bundle
- High coefficient of friction grips and prevents lateral movement along cable bundle
- Releasable and re-usable to accommodate frequent moves, adds, and changes
- Halogen-free, non-toxic, and environmentally safe material will not release toxic or corrosive gases upon combustion
- Locking head design; the tapered tip threads into locking head to speed productivity; industry-accepted intuitive tie design



| Part Number | Length |       | Width |      | Thickness |     | Max. Bundle Dia. |      | Min. Loop Tensile Str. |    |
|-------------|--------|-------|-------|------|-----------|-----|------------------|------|------------------------|----|
|             | In.    | mm    | In.   | mm   | In.       | mm  | In.              | mm   | Lbs.                   | N  |
| ERT2M-C20   | 8.50   | 216.0 | 0.50  | 12.7 | 0.09      | 2.3 | 2.35             | 59.7 | 18                     | 80 |

-C indicates 100 per package. 20 indicates black.

### Tak-Ty™ Hook & Loop Cable Tie Mounts

- For use with TTS Tak-Tape™ and HLT/HLS Tak-Ty™ Hook & Loop Cable Ties
- Unique cradle design provides maximum stability for cable bundle
- For indoor use only
- Dimensions: 1.12 inches L x 1.12 inches W x .34 inches H (28.4mm x 28.4mm x 8.6mm)

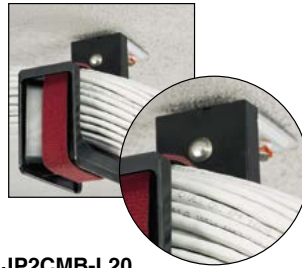


| Part Number                       | Mounting Method               | Material  | Color   |
|-----------------------------------|-------------------------------|-----------|---------|
| ABMT-A-C*                         | Pre-installed Rubber Adhesive | Nylon 6.6 | Natural |
| ABMT-A-Q20*                       |                               |           | Black   |
| <b>BEST SELLER</b><br>ABMT-A-C20* | #6 (M3) Screw                 |           | Natural |
| ABMT-S6-C                         |                               |           | Black   |
| <b>BEST SELLER</b><br>ABMT-S6-C20 |                               |           |         |

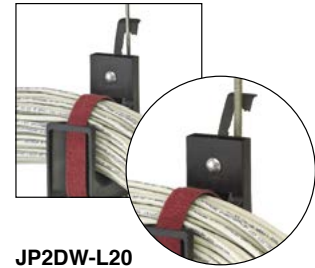
\*Maximum static load for adhesive backed mounts is .38 lbs. (174g).  
-Q indicates 25 per package, -C indicates 100 per package.



JP2W-L20



JP2CMB-L20



JP2DW-L20

## J-Pro™ Cable Support System



| Part Number                            | Description   | Max. Bundle Capacity |       | Max. Cable Capacity*      |                    |                     | Material**                              |
|--|---|----------------------|-------|---------------------------|--------------------|---------------------|---|
|  |   | In.                  | mm    | Category 6A-SD/6A (0.30") | Category 6 (0.24") | Category 5e (0.23") |   |
| <b>Wall Mount</b>                      |   |                      |       |                           |                    |                     |   |
| JP75W-L20                              | J Hook for wall mount applications. One 1/4" (M6) mounting hole for user supplied fastener. Not for use with powder actuated fasteners. | 0.75                 | 19.0  | 5                         | 8                  | 10                  | Nylon 6.6                               |
| JP131W-L20                             |   | 1.31                 | 33.3  | 15                        | 25                 | 29                  |   |
| <b>BEST SELLER</b> JP2W-L20            |   | 2.00                 | 50.8  | 30                        | 46                 | 55                  |   |
| JP4W-X20                               |   | 4.00                 | 101.6 | 115                       | 180                | 200                 |   |
| <b>Ceiling Mount</b>                   |   |                      |       |                           |                    |                     |   |
| JP75CMB-L20                            | J Hook with ceiling mount bracket that has one 3/16" (M5), 1/4" (M6), and 3/8" (M10) mounting hole.                                     | 0.75                 | 19.0  | 5                         | 8                  | 10                  | Nylon 6.6 J Hook with Metal Attachments |
| JP131CMB-L20                           |   | 1.31                 | 33.3  | 15                        | 25                 | 29                  |   |
| JP2CMB-L20                             |   | 2.00                 | 50.8  | 30                        | 46                 | 55                  |   |
| JP4CMB-X20                             |   | 4.00                 | 101.6 | 115                       | 180                | 200                 |   |
| <b>Drop Wire and Threaded Rod Clip</b> |   |                      |       |                           |                    |                     |   |
| <b>BEST SELLER</b> JP75DW-L20          | J Hook with clip for use with #12 wire, threaded rod up to 3/8" (9.5mm) in diameter, or 1/8" - 1/4" (3.2mm - 6.4mm) thick flanges.      | 0.75                 | 19.0  | 5                         | 8                  | 10                  | Nylon 6.6 J Hook with Metal Attachments |
| <b>BEST SELLER</b> JP131DW-L20         |   | 1.31                 | 33.3  | 15                        | 25                 | 29                  |   |
| <b>BEST SELLER</b> JP2DW-L20           |   | 2.00                 | 50.8  | 30                        | 46                 | 55                  |   |
| <b>BEST SELLER</b> JP4DW-X20           |   | 4.00                 | 101.6 | 115                       | 180                | 200                 |   |



JP2W-L20



JP2CMB-L20



JP2DW-L20

\*The above cable diameters represent the nominal Panduit cable diameter per performance level. For specific cable fill information based on specific part numbers, please contact Customer Service.  
 \*\*Suitable for use in air handling spaces in accordance with Sec. 300.22(C) and (D) of the National Electrical Code when mounted as single units or in pairs. JP4 family of parts suitable for use in single unit configurations only. Listed in accordance with CAN/ULC S102.2 when mounted as single units or in pairs. Minimum spacing of 4 feet (1220mm) required between mount points. (Flame Spread Rating = 0, Smoke Developed Classification = 20).

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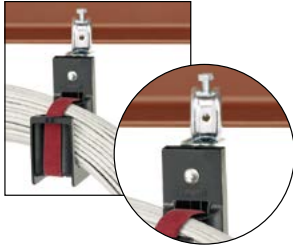
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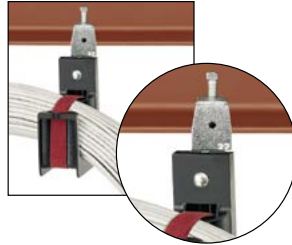
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JP2SBC50RB-L20



JP4SBC50-X20

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### J-Pro™ Cable Support System (continued)



JP131SBC50-L20



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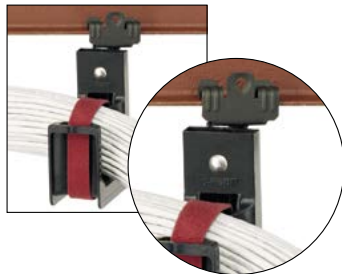
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| Part Number                        | Description  | Max. Bundle Capacity |       | Max. Cable Capacity*      |                    |                     | Material**                              |
|------------------------------------|--|----------------------|-------|---------------------------|--------------------|---------------------|---|
|                                    |  | In.                  | mm    | Category 6A-SD/6A (0.30") | Category 6 (0.24") | Category 5e (0.23") |   |
| <b>Screw-On Beam Clamps</b>        |  |                      |       |                           |                    |                     |   |
| JP131SBC50-L20                     | J Hook with screw-on beam clamp for use with flanges up to 1/2" (12.7mm) thick. Rotates 360 degrees. | 1.31                 | 33.3  | 15                        | 25                 | 29                  | Nylon 6.6 J Hook with Metal Attachments |
| JP4SBC50-X20                       |  | 4.00                 | 101.6 | 115                       | 180                | 200                 |   |
| <b>BEST SELLER</b> JP75SBC50RB-L20 |  | 0.75                 | 19.0  | 5                         | 8                  | 10                  |   |
| JP2SBC50RB-L20                     |  | 2.00                 | 50.8  | 30                        | 46                 | 55                  |   |

\*The above cable diameters represent the nominal Panduit cable diameter per performance level. For specific cable fill information based on specific part numbers, please contact Customer Service.  
 \*\*Suitable for use in air handling spaces in accordance with Sec. 300.22(C) and (D) of the National Electrical Code when mounted as single units or in pairs. JP4 family of parts suitable for use in single unit configurations only. Listed in accordance with CAN/ULC S102.2 when mounted as single units or in pairs. Minimum spacing of 4 feet (1220mm) required between mount points. (Flame Spread Rating = 0, Smoke Developed Classification = 20).



JP2HBC25RB-L20

### J-Pro™ Cable Support System (continued)

| Part Number                  | Description   | Max. Bundle Capacity |       | Max. Cable Capacity*      |                    |                     | Material**                              |
|------------------------------|---|----------------------|-------|---------------------------|--------------------|---------------------|---|
|                              |   | In.                  | mm    | Category 6A-SD/6A (0.30") | Category 6 (0.24") | Category 5e (0.23") |   |
| <b>Hammer-On Beam Clamps</b> |   |                      |       |                           |                    |                     |   |
| JP75HBC25RB-L20              | J Hook with hammer-on beam clamp for use with flanges       | 0.75                 | 19.0  | 5                         | 8                  | 10                  | Nylon 6.6 J Hook with Metal Attachments |
| JP131HBC25RBL20              | with flanges  | 1.31                 | 33.3  | 15                        | 25                 | 29                  |   |
| JP2HBC25RB-L20               | 1/8" – 1/4" (3.2mm – 6.4mm) thick. Rotates 360 degrees.     | 2.00                 | 50.8  | 30                        | 46                 | 55                  |   |
| JP4HBC25RB-X20               |   | 4.00                 | 101.6 | 115                       | 180                | 200                 |   |
| JP75HBC50RB-L20              | J Hook with hammer-on beam clamp for use with flanges 5/16" | 0.75                 | 19.0  | 5                         | 8                  | 10                  |   |
| JP131HBC50RBL20              | – 1/2" (7.9mm – 12.7mm) thick. Rotates 360 degrees.         | 1.31                 | 33.3  | 15                        | 25                 | 29                  |   |
| JP2HBC50RB-L20               |   | 2.00                 | 50.8  | 30                        | 46                 | 55                  |   |
| JP4HBC50RB-X20               |   | 4.00                 | 101.6 | 115                       | 180                | 200                 |   |

\*The above cable diameters represent the nominal Panduit cable diameter per performance level. For specific cable fill information based on specific part numbers, please contact Customer Service.  
 \*\*Suitable for use in air handling spaces in accordance with Sec. 300.22(C) and (D) of the National Electrical Code when mounted as single units or in pairs. JP4 family of parts suitable for use in single unit configurations only. Listed in accordance with CAN/ULC S102.2 when mounted as single units or in pairs. Minimum spacing of 4 feet (1220mm) required between mount points. (Flame Spread Rating = 0, Smoke Developed Classification = 20).



JP2HBC25RB-L20  
JP2HBC50RB-L20

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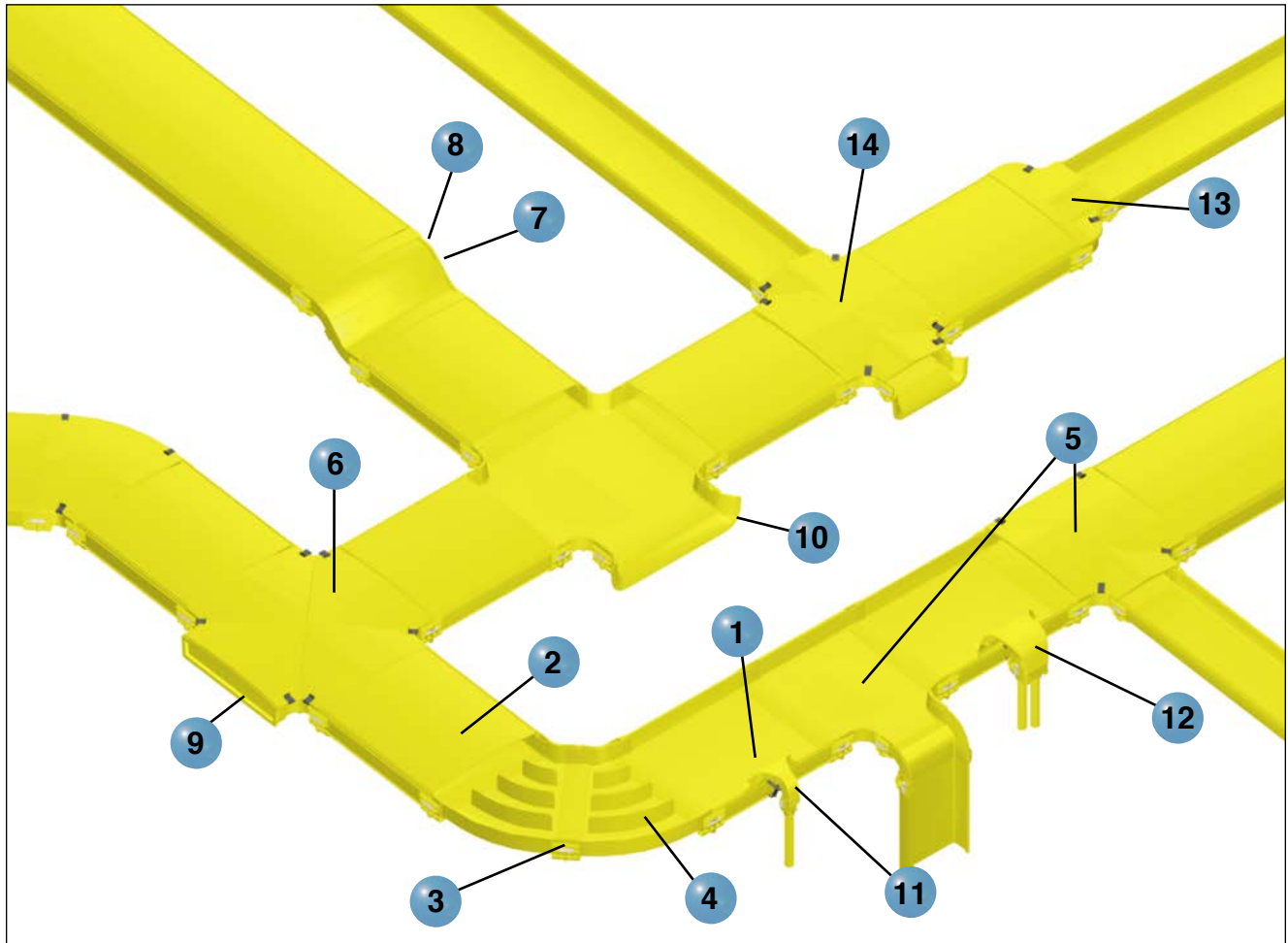
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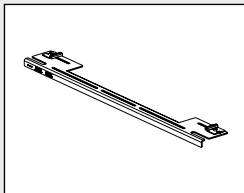
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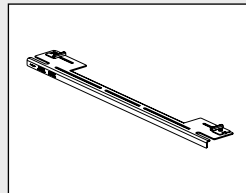
### 24x4 Routing System Roadmap



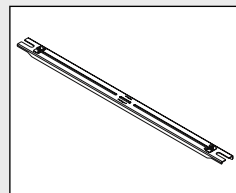
### 24x4 FiberRunner™ Mounting Brackets



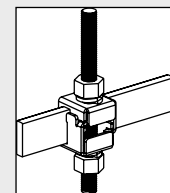
**FR24TBE12** – Existing Threaded Rod QuikLock™ Bracket (page J.6)



**FR24TBN12** - New Threaded Rod QuikLock™ Bracket (page J.6)

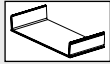


**FRTBWG30BL** - Wyr-Grid™ Mounting Bracket for FiberRunner™ System (page J.6)

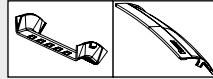


**F2PCLB12** - Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1.5" - 2" Ladder Rack (page J.6)

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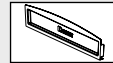
**1** FR24X4\*\*10 – 24x4 FiberRunner™ Channel (page J.4)



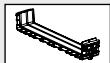
**8** FROV4524X4L\*\* – 24x4 Outside Vertical 45° Angle Fitting and FROV45CV24L\*\* – Cover (page J.5)



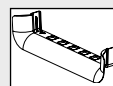
**2** FRCV24\*\*10 – 24x4 Snap-On Cover (page J.4)



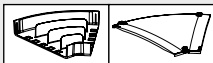
**9** FREC24X4L\*\* – 24x4 End Cap Fitting (page J.5)



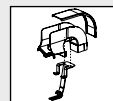
**3** FRBC24X4L\*\* – 24x4 QuikLock™ Coupler (page J.4)



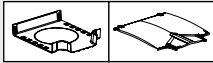
**10** FRTR24X4L\*\* – 3-Sided BRC Trumpet Spillover for 24x4 Exit (page J.5)



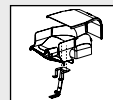
**4** FRH4524X4L\*\* – 24x4 Horizontal 45° Angle Fitting and FRH45CV24L\*\* – Cover (page J.4)



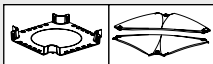
**11** FRSPJ2X2L\*\* – Spill-Over Junction with 2x2 Exit (page J.30)



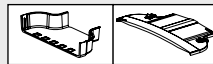
**5** FRT24X4W12L\*\* – 24x4 Horizontal Tee with 12x4 Exit and FRTC24W12L\*\* – Cover (page J.4)



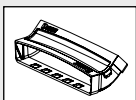
**12** FRSPJ4X4L\*\* – Spill-Over Junction with 4x4 Exit (page J.24)



**6** FRFWC24X4L\*\* – 24x4 4-Way Cross Fitting and FRFWCCV24L\*\* – Cover (page J.4)



**13** FRRF2412L\*\* – 24x4 to 12x4 FiberRunner™ Reducer Fitting and FRRF2412CVL\*\* – Cover (page J.5)



**7** FRIV4524X4L\*\* – 24x4 Inside Vertical 45° Angle Fitting (page J.5)



**14** FRFWC24X4W12L\*\* – 24x4 4-Way Cross Fitting with 12x4 Exits and FRFWCCV24W12L\*\* – Cover (page J.4)

\*\*Available colors: YL (Yellow), and BL (Black).

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## 24x4 FiberRunner™ Routing System – Channel and Cover

- Robust, large capacity 24x4 system ideal for use with large cable counts
- QuikLock™ Couplers and Brackets reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Compatible with all sizes of Panduit™ FiberRunner™ Routing Systems, Cable Management, and Racks

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FR24X4YL10



FRCV24YL10

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|---------------------------|---|--------|
| <b>24x4 Channel</b>       |   |        |
| FR24X4YL10                | Used to carry cables horizontally throughout the system. Use QuikLock™ Coupler FRBC24X4LYL to attach channel and/or fittings. | Yellow |
| <b>24x4 Snap-On Cover</b> |   |        |
| FRCV24YL10                | Snap-on cover for channel FR24X4YL10. Supplied in four 30" long pieces.   | Yellow |

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

## 24x4 FiberRunner™ QuikLock™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly



FRBC24X4LYL

| Part Number | Description  | Color  |
|-------------|--|--------|
| FRBC24X4LYL | Coupler quickly joins two sections of channel and/or fittings. | Yellow |

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

## 24x4 FiberRunner™ System Fittings

- Minimum 3 inch (76.2mm) bend radius control fittings
- Assemble using FRBC QuikLock™ Couplers
- Protect against signal loss and performance degradation



FRFWC24X4LYL



FRFWC24X4W12LYL



FRH4524X4LYL



FRT24X4W12LYL



FRTC24W12LYL

| Part Number  | Description   | Couplers Required                                 | Color  |
|--|---|---|--------|
| <b>24x4 Four-Way Cross Fitting</b>                   |   |   |        |
| FRFWC24X4LYL   | Attaches to a 24x4 channel and/or fittings to create a horizontal four-way cross intersection with two 24x4 exits. Accepts split cover FRFWCCV24LYL.          | (4 pcs.)<br>FRBC24X4LYL                           | Yellow |
| <b>24x4 Four-Way Cross Fitting with 12x4 Exits</b>   |   |   |        |
| FRFWC24X4W12LYL                                      | Attaches to a 24x4 channel and/or fittings to create a horizontal four-way cross intersection with two 12x4 exits. Accepts split cover FRFWCCV24W12LYL.       | (2 pcs.)<br>FRBC24X4LYL                           | Yellow |
| <b>24x4 Horizontal 45° Angle Fitting</b>             |   |   |        |
| FRH4524X4LYL   | Attaches to a 24x4 channel and/or fittings to create a 45° horizontal turn from a straight horizontal run.  | (2 pcs.)<br>FRBC24X4LYL                           | Yellow |
| <b>24x4 Horizontal Tee with 12x4 Exits</b>           |   |   |        |
| FRT24X4W12LYL  | Attaches to a 24x4 channel and/or fittings to create a 90° horizontal branch with a 12x4 exit from straight horizontal run. Accepts split cover FRTC24W12LYL. | (2 pcs.)<br>FRBC24X4LYL<br>(1 pc.)<br>FRBC12X4LYL | Yellow |
| <b>Cover for 24x4 Horizontal Tee with 12x4 Exits</b> |   |   |        |
| FRTC24W12LYL   | Cover for the horizontal tee fitting FRT24X4W12LYL.   | —   | Yellow |

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

## 24x4 FiberRunner™ System Fittings



FRH45CV24LYL



FREC24X4LYL



FROV4524X4LYL



FROV45CV24LYL



FRIV4524X4LYL



FRRF2412LYL

| Part Number  | Description  | Couplers Required                                | Color  |
|--|--|--|--------|
| <b>Cover for 24x4 Horizontal 45° Angle Fitting</b>               |  |  |        |
| FRH45CV24LYL   | Cover for the horizontal 45° angle fitting FRH4524X4LYL.   | —  | Yellow |
| <b>24x4 End Cap Fitting</b>                                      |  |  |        |
| FREC24X4LYL  | Used for closing off open ends of the channel or fittings.   | —  | Yellow |
| <b>24x4 Outside Vertical 45° Fitting</b>                         |  |  |        |
| FROV4524X4LYL  | Attaches to a 24x4 channel and/or fittings to create a 45° downward angle from a straight horizontal run. Used with inside vertical 45° angle fitting FRIV4524X4LYL to change level of a horizontal run.                         | (2 pcs.)<br>FRBC24X4LYL                          | Yellow |
| <b>Cover for 24x4 Outside Vertical 45° Angle Fitting</b>         |  |  |        |
| FROV45CV24LYL  | Cover for the outside vertical 45° angle fitting FROV4524X4LYL.  | —  | Yellow |
| <b>24x4 Inside Vertical 45° Fitting</b>                          |  |  |        |
| FRIV4524X4LYL  | Attaches to a 24x4 channel and/or fittings to create a 45° upward angle from a straight horizontal run. Used with outside vertical 45° angle fitting FROV4524X4LYL to change level of a straight horizontal run. Includes cover. | (2 pcs.)<br>FRBC24X4LYL                          | Yellow |
| <b>Reducer from 24x4 to 12x4 FiberRunner™ Fitting or Channel</b> |  |  |        |
| FRRF2412LYL  | Attaches any 24x4 FiberRunner™ Fitting or Channel to any 12x4 FiberRunner™ Fitting or Channel.   | (1 pc.)<br>FRBC24X4LYL<br>(1 pc.)<br>FRBC12X4LYL | Yellow |

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

## 24x4 FiberRunner™ System Spillouts

- Spill-overs allow safe transition from horizontal to vertical runs
- 2 inch (50.8mm) bend radius control
- Transition to channel, slotted channel, and corrugated loom tubing



FRTR24X4LYL

| Part Number  | Description  | Couplers Required      | Color  |
|--|--|------------------------|--------|
| <b>3-Sided BRC Trumpet Spillout for 24x4 Exits</b> |  |                        |        |
| FRTR24X4LYL  | Used to limit the bend radius of the cable to 3" (76.2mm) when exiting from the 24x4 channel or a 24x4 horizontal tee. | (1 pc.)<br>FRBC24X4LYL | Yellow |

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

### 24x4 FiberRunner™ Mounting Brackets



FR24TBE12

| Part Number   | Description   | For Threaded Rod Size |
|---|---|-----------------------|
| <b>Existing Threaded Rod QuikLock™ Mounting Bracket</b> |   |                       |
| FR24TBE12   | Used to support the 24x4 system by spanning two 0.5" existing threaded rod drops. | 0.5"                  |
| <b>New Threaded Rod QuikLock™ Bracket</b>               |   |                       |
| FR24TBN12   | Used to support the 24x4 system from new threaded rod installations.              | 0.5"                  |
| <b>Trapeze QuikLock™ Bracket</b>                        |   |                       |
| FR12TB2412  | Used to support the 24x4 system by spanning two existing threaded rod drops.      | 0.5"                  |
| FR24TBN12M  |   | 12mm                  |
| <b>Center Support Bracket</b>                           |   |                       |
| FR24CSB12   | Used to support the 24x4 system by spanning 0.5" existing threaded rod drops.     | 0.5"                  |

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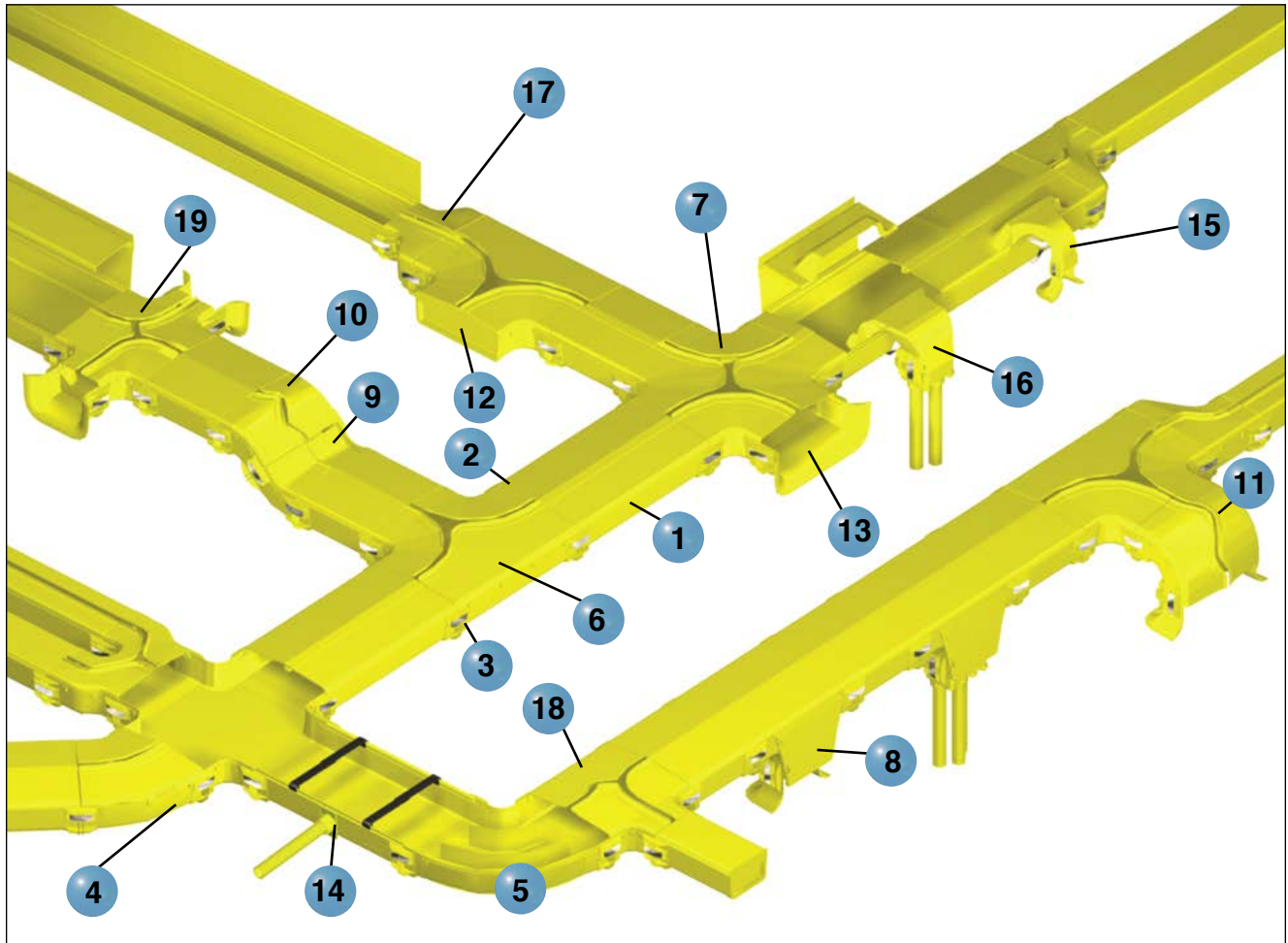
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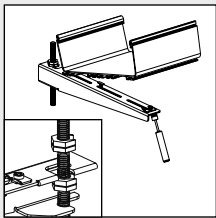
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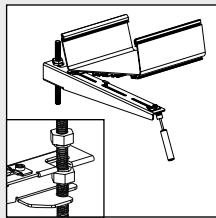
### 12x4 Routing System Roadmap



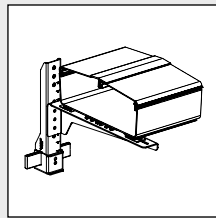
### 12x4 FiberRunner™ Mounting Brackets



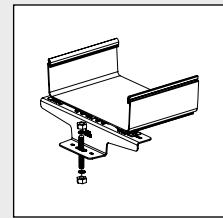
**FR12TRBE58 – Existing Threaded Rod QuikLock™ Bracket (page J.13)**



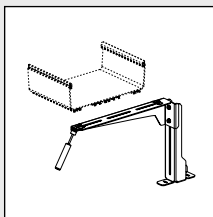
**FR12TRBN58 – New Threaded Rod QuikLock™ Bracket (page J.13)**



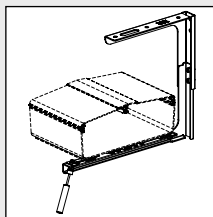
**FR12ALB – Adjustable Ladder QuikLock™ Bracket (page J.13)**



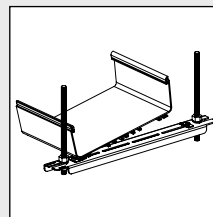
**FR12CS58 – Center Support QuikLock™ Bracket (page J.13)**



**FR12ACAB – Adjustable Cabinet QuikLock™ Bracket (page J.13)**



**FR12ACB58 – Top Support Adjustable "C" QuikLock™ Bracket (page J.13)**



**FR12TB58 – Trapeze QuikLock™ Bracket (page J.13)**

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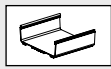
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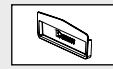
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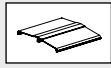
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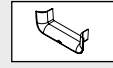
**1** FR12X4\*\* – 12x4 FiberRunner™ Channel (page J.10)



**12** FREC12X4\*\* – 12x4 End Cap Fitting (page J.10)



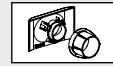
**2** FRHC12\*\* – 12x4 Snap-On Hinged Cover (page J.10)



**13** FRTR12X4L\*\* – 3-Sided BRC Trumpet Spillover for 12x4 Exit (page J.12)



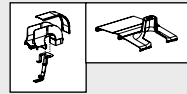
**3** FRBC12X4L\*\* – 12x4 QuikLock™ Coupler (page J.11)



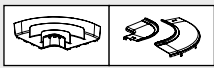
**14** FR1.5IDEL\*\* – 1-Port Spillover Side Exit to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.30)



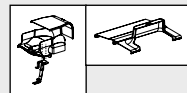
**4** FRH4512X4L\*\* – 12x4 Horizontal 45° Angle Fitting and FRH45SC12L\*\* – Split Cover (page J.11)



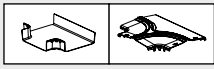
**15** FRSPJ2X2L\*\* – Spill-Over Junction with 2x2 Exit (J.30) and FRSPJC212L\*\* – Cover for 12x4 System



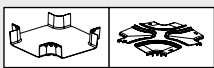
**5** FRRA12X4L\*\* – 12x4 Horizontal Right Angle Fitting and FRRASC12L\*\* – Split Cover (page J.11)



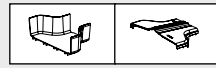
**16** FRSPJ4X4L\*\* – Spill-Over Junction with 4x4 Exit (page J.24) and FRSPJC412L\*\* – Cover for 12x4 System (page J.12)



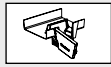
**6** FRT12X4L\*\* – 12x4 Horizontal Tee Fitting and FRTSC12L\*\* – Split Cover (page J.11)



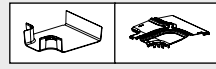
**7** FRFWC12X4L\*\* – 12x4 4-Way Cross Fitting and FRFWCSC12L\*\* – Split Cover (page J.10)



**17** FRRF126LS\*\* – 12x4 to 6x4 FiberRunner™ Reducer Fitting and FRRF126SCL\*\* – Split Cover (page J.13)



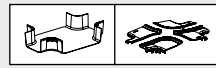
**8** FRVT12X4L\*\* – 12x4 Vertical Tee (page J.12)



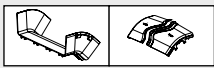
**18** FRT12X4W6L\*\* – 12x4 Horizontal Tee with 6x4 Exit and FRTSC12W6L\*\* – Split Cover (page J.12)



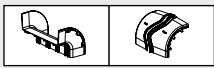
**9** FRIV4512X4L\*\* – 12x4 Inside Vertical 45° Angle Fitting (page J.12)



**19** FRFWC12X4W6L\*\* – 12x4 4-Way Cross Fitting with 6x4 Exits and FRFWCSC12W6L\*\* – Split Cover (page J.12)



**10** FROV4512X4L\*\* – 12x4 Outside Vertical 45° Angle Fitting and FROV45SC12L\*\* – Split Cover (page J.11-12)



**11** FROVRA12X4L\*\* – 12x4 Outside Vertical Right Angle Fitting and FROVRASC12L\*\* – Split Cover (page J.12)

\*\*Available colors: YL (Yellow) and BL (Black).

A. Product Showcase

### 12x4 FiberRunner™ Routing System – Channel and Cover

- Robust, large capacity 12x4 system ideal for use with large cable counts
- Multiple spillout options provide versatility to mate to various equipment and rack configurations
- QuikLock™ Couplers and Brackets reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Compatible with all sizes of Panduit™ FiberRunner™ Routing Systems, Cable Management, and Racks
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS) Level 3

B. Copper Systems

C. Fiber Systems

D. Industrial Networks



FR12X4YL10

E. Audio Video Systems

F. Keystone Cabling Systems



FRBC12X4LYL

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power and Connectivity Management

I. Cable Management Accessories



FRFWC12X4LYL

J. Cable Routing Systems



FRFWCSC12LYL

K. Cable Cleats



FRH4512X4LYL

L. Part Number Index

| Part Number | Description | Color |
|-------------|-------------|-------|
|-------------|-------------|-------|

#### 12x4 FiberRunner™ Channel

BEST SELLER

|            |   |        |
|------------|---|--------|
| FR12X4YL10 | Used to carry the cables horizontally throughout the system. Accepts cable retainers FRCR12LYL-X or hinged cover FRHC12YL10. Use QuikLock™ Coupler FRBC12X4LYL to attach channel and/or fittings. | Yellow |
|------------|---|--------|

#### 12x4 Snap-On Hinged Cover

|            |  |        |
|------------|--|--------|
| FRHC12YL10 | Snap-on hinged cover for channel FR12X4YL10. | Yellow |
|------------|--|--------|

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

### 12x4 FiberRunner™ QuikLock™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly

| Part Number | Description  | Color  |
|-------------|--|--------|
| FRBC12X4LYL | Coupler quickly joins two sections of channel and/or fittings. | Yellow |

BEST SELLER

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

### 12x4 FiberRunner™ System Fittings

- Minimum 2 inch (50.8mm) bend radius control fittings
- Split covers snap onto each fitting
- Protect against signal loss and performance degradation
- Covers feature 0.75 inch (19mm) gap to allow cable to be laid in
- Assemble using FRBC QuikLock™ Couplers

| Part Number | Description | Couplers Required | Color |
|-------------|-------------|-------------------|-------|
|-------------|-------------|-------------------|-------|

#### 12x4 Four-Way Cross Fitting

|              |   |   |        |
|--------------|---|---|--------|
| FRFWC12X4LYL | Attaches to a 12x4 channel and/or fitting to create a horizontal four-way cross intersection with two 12x4 exits. | — | Yellow |
|--------------|---|---|--------|

#### Split Cover for 12x4 Four-Way Cross

|              |  |   |        |
|--------------|--|---|--------|
| FRFWCSC12LYL | Split cover for the four-way cross fitting FRFWC12X4LYL. | — | Yellow |
|--------------|--|---|--------|

#### 12x4 Four-Way Cross Fitting with 4x4 Exits

|              |   |   |        |
|--------------|---|---|--------|
| FRH4512X4LYL | Attaches to a 12x4 channel and/or fittings to create a horizontal four-way cross intersection with two 4x4 exits. | (2 pcs.)<br>FRBC12X4LYL<br>(2 pcs.)<br>FRBC4X4LYL | Yellow |
|--------------|---|---|--------|

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

## 12x4 FiberRunner™ System Fittings (continued)



FRFWC12X4W6LYL



FRT12X4LYL



FRTSC12LYL



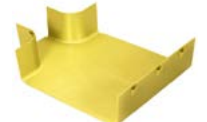
FRH4512X4LYL



FRH45SC12LYL



FRRA12X4LYL



FRRASC12LYL



FRT12X4W4LYL



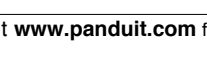
FRT12X4W6LYL



FRTSC12W6LYL



FREC12X4LYL



FROV4512X4LYL

| Part Number  | Description  | Couplers Required                                 | Color  |
|--|--|---|--------|
| <b>12x4 Four-Way Cross Fitting with 6x4 Exits</b>          |  |   |        |
| FRFWC12X4W6LYL   | Attaches to a 12x4 channel and/or fittings to create a horizontal four-way cross intersection with two 6x4 exits. Accepts split cover FRFWCSC12W6LYL.  | (2 pcs.)<br>FRBC12X4LYL<br>(2 pcs.)<br>FRBC6X4LYL | Yellow |
| <b>12x4 Horizontal Tee Fitting</b>                         |  |   |        |
| FRT12X4LYL   | Attaches to a 12x4 channel and/or fittings to create a 90° horizontal branch with a 12x4 exit from straight horizontal run. Accepts split cover FRTSC12LYL.  | (3 pcs.)<br>FRBC12X4LYL                           | Yellow |
| <b>Split Cover for 12x4 Horizontal Tee Fitting</b>         |  |   |        |
| FRTSC12LYL   | Split cover for the horizontal tee fitting FRT12X4LYL. Snap-on feature allows cover to be installed and removed with no tools required. Creates radiused 0.75" (19mm) opening for easy access to add or remove cables.                     | —   | Yellow |
| <b>12x4 Horizontal 45° Angle Fitting</b>                   |  |   |        |
| FRH4512X4LYL   | Attaches to a 12x4 channel and/or fitting to create a 45° horizontal turn from a straight horizontal run. Accepts split cover FRH45SC12LYL.  | —   | Yellow |
| <b>Split Cover for 12x4 Horizontal 45° Angle Fitting</b>   |  |   |        |
| FRH45SC12LYL   | Split cover for the horizontal 45° angle fitting FRH4512X4LYL.   | —   | Yellow |
| <b>12x4 Horizontal Right Angle Fitting</b>                 |  |   |        |
| FRRA12X4LYL  | Attaches to a 12x4 channel and/or fitting to create a 90° horizontal turn from a straight horizontal run. Accepts split cover FRRASC12LYL.   | (2 pcs.)<br>FRBC12X4LYL                           | Yellow |
| <b>Split Cover for 12x4 Horizontal Right Angle Fitting</b> |  |   |        |
| FRRASC12LYL  | Split cover for the horizontal right angle fitting FRRA12X4LYL.  | —   | Yellow |
| <b>12x4 Horizontal Tee with 4x4 Exits</b>                  |  |   |        |
| FRT12X4W4LYL   | Attaches to a 12x4 channel and/or fittings to create a 90° horizontal branch with a 4x4 exit from straight horizontal run. Accepts split cover FRTSC12W4LYL.   | (2 pcs.)<br>FRBC12X4LYL<br>(1 pc.)<br>FRBC4X4LYL  | Yellow |
| <b>12x4 Horizontal Tee with 6x4 Exits</b>                  |  |   |        |
| FRT12X4W6LYL   | Attaches to a 12x4 channel and/or fittings to create a 90° horizontal branch with a 6x4 exit from straight horizontal run. Accepts split cover FRTSC12W6LYL.   | (2 pcs.)<br>FRBC12X4LYL<br>(1 pc.)<br>FRBC6X4LYL  | Yellow |
| <b>Split Cover for 12x4 Horizontal Tee with 6x4 Exit</b>   |  |   |        |
| FRTSC12W6LYL   | Split cover for the horizontal tee with 6x4 exit fitting FRT12X4W6LYL. Snap-on feature allows cover to be installed and removed without tools. Creates radiused 0.75" (19mm) opening for easy access to add or remove cables.              | —   | Yellow |
| <b>12x4 End Cap Fitting</b>                                |  |   |        |
| FREC12X4LYL  | Used for closing off open ends of the channel or fittings.   | —   | Yellow |
| <b>12x4 Outside Vertical 45° Angle Fitting</b>             |  |   |        |
| FROV4512X4LYL  | Attaches to a 12x4 channel and/or fitting to create a 45° downward angle from a straight horizontal run. Used with inside vertical 45° angle fitting FRIV4512X4LYL to change level of a horizontal run. Accepts split cover FROV45SC12LYL. | (2 pcs.)<br>FRBC12X4LYL                           | Yellow |

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

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## 12x4 FiberRunner™ System Fittings (continued)



FROV45SC12LYL



FROVRA12X4LYL



FROVRASC12LYL



FRIV4512X4LYL

| Part Number | Description | Couplers Required | Color |
|-------------|-------------|-------------------|-------|
|-------------|-------------|-------------------|-------|

### Split Cover for 12x4 Outside Vertical 45° Angle Fitting

|               |   |   |        |
|---------------|---|---|--------|
| FROV45SC12LYL | Split cover for the outside vertical 45° angle fitting FROV4512X4LYL. | — | Yellow |
|---------------|---|---|--------|

### 12x4 Outside Vertical Right Angle Fitting

|               |   |                         |        |
|---------------|---|-------------------------|--------|
| FROVRA12X4LYL | Attaches to a 12x4 channel and/or fitting to create a 90° vertical turn down from a straight horizontal run. Accepts split cover FROVRASC12LYL. | (2 pcs.)<br>FRBC12X4LYL | Yellow |
|---------------|---|-------------------------|--------|

### Split Cover for 12x4 Outside Vertical Right Angle Fitting

|               |   |   |        |
|---------------|---|---|--------|
| FROVRASC12LYL | Split cover for the outside vertical 90° angle fitting FROVRA12X4LYL. | — | Yellow |
|---------------|---|---|--------|

### 12x4 Inside Vertical 45° Fitting and Cover

|               |  |                         |        |
|---------------|--|-------------------------|--------|
| FRIV4512X4LYL | Attaches to a 12x4 channel and/or fittings to create a 45° upward angle from a straight horizontal run. Used with outside vertical 45° angle fitting FROV4512X4LYL to change level of a straight horizontal run. Includes cover. | (2 pcs.)<br>FRBC12X4LYL | Yellow |
|---------------|--|-------------------------|--------|

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

## 12x4 FiberRunner™ System Spillouts

- Spill-overs allow safe transition from horizontal to vertical runs
- 2 inch (50.8mm) bend radius control
- Transition to channel, slotted channel, and corrugated loom tubing



FRVT12X4LYL



FRTR12X4LYL



FRSPJC412LYL



FITF12X4



FRY126LYL



FRY126SCLYL

| Part Number | Description | Couplers Required | Color |
|-------------|-------------|-------------------|-------|
|-------------|-------------|-------------------|-------|

### 12x4 Vertical Tee

|             |   |  |        |
|-------------|---|--|--------|
| FRVT12X4LYL | Attaches to a 12x4 channel and/or fittings to create a 90° vertical drop from a horizontal run. Hinged door included. Accepts snap-on cover FRHC12LYL6 in conjunction with channel. | (2 pcs.)<br>FRBC12X4LYL<br>(1 pc.)<br>FRBC6X4LYL | Yellow |
|-------------|---|--|--------|

### 3-Sided BRC Trumpet Spillout for 6x4 Exit

|             |  |                        |        |
|-------------|--|------------------------|--------|
| FRTR12X4LYL | Used to limit the bend radius of the cable to 3" (76.2mm) when exiting from the 12x4 channel or a 12x4 horizontal tee. | (1 pc.)<br>FRBC12X4LYL | Yellow |
|-------------|--|------------------------|--------|

### Cover for Spill-Over Junction with 4x4 Exit for 12x4 Channel

|              |   |   |        |
|--------------|---|---|--------|
| FRSPJC412LYL | Used to fully enclose 12x4 channel in conjunction with the spill-over junction FRSPJ4X4LYL. | — | Yellow |
|--------------|---|---|--------|

### Innerduct Transition Fitting

|          |  |   |       |
|----------|--|---|-------|
| FITF12X4 | Attaches to the end of a channel or fitting to transition up to ten pieces of solid 1.5" (38mm) inside diameter innerduct. | — | Black |
|----------|--|---|-------|

### 12x4 Y-Reducer Fitting for 6x4 Exit

|           |   |  |        |
|-----------|---|--|--------|
| FRY126LYL | Attaches any 12x4 FiberRunner™ Fitting or Channel to two 6x4 FiberRunner™ Channels. | (1 pc.)<br>FRBC12X4LYL<br>(2 pcs.)<br>FRBC6X4LYL | Yellow |
|-----------|---|--|--------|

### Reducer Cover for the 12x4 Y-Reducer Fitting

|             |  |   |        |
|-------------|--|---|--------|
| FRY126SCLYL | Reducer cover for the Y-reducer fitting FRY126LYL. | — | Yellow |
|-------------|--|---|--------|

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

## 12x4 FiberRunner™ System Spillouts (continued)



FRRF126SCLYL

| Part Number  | Description                                 | Couplers Required | Color  |
|--------------|---|-------------------|--------|
| FRRF126SCLYL | Split cover for reducer fitting FRRF126LYL. | —                 | Yellow |

### Split Cover for Reducer 12x4 Fitting to 6x4 Exit



FRRF126LSCLYL

|             |   |   |        |
|-------------|---|---|--------|
| FRRF126LSYL | Attaches any 12x4 FiberRunner™ Fitting or Channel to any 6x4 FiberRunner™ Fitting or Channel. It accepts split cover FRRF126LSCLYL. | (1 pc.)<br>FRBC12X6LYL<br>(1 pc.)<br>FRBC6X4LYL | Yellow |
|-------------|---|---|--------|

### Transition Left Reducer 12x4 Fitting to 6x4 Exit



|               |   |   |        |
|---------------|---|---|--------|
| FRRF126LSCLYL | Split cover for the reducer fitting FRRF126LYL. | — | Yellow |
|---------------|---|---|--------|

### Split Cover for Transition Left Reducer 12x4 Fitting to 6x4 Exit



FRRF126RLYL

|             |   |   |        |
|-------------|---|---|--------|
| FRRF126RLYL | Attaches any 12x4 FiberRunner™ Fitting or Channel to any 6x4 FiberRunner™ Fitting or Channel. It accepts split cover FRRF126RSCLYL. | (1 pc.)<br>FRBC12X4LYL<br>(1 pc.)<br>FRBC6x4LYL | Yellow |
|-------------|---|---|--------|

### Transition Right Reducer 12x4 Fitting to 6x4 Exit



FRRF126RSCLYL

|               |  |   |        |
|---------------|--|---|--------|
| FRRF126RSCLYL | Split cover for the reducer fitting FRRF126RLYL. | — | Yellow |
|---------------|--|---|--------|

### Split Cover for Transition Right Reducer 12x4 Fitting to 6x4 Exit



FRCR12LBL-X

|             |  |   |       |
|-------------|--|---|-------|
| FRCR12LBL-X | Holds cable in the channel when the cover is not used. | — | Black |
|-------------|--|---|-------|

### 12x4 Cable Retainer

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

## 12x4 FiberRunner™ Mounting Brackets



FR12ACAB

| Part Number | Description  | For Threaded Rod Size |
|-------------|--|-----------------------|
| 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. | 0.5"                  |
| FR12ACAB    |  | 0.625"                |
| FR12ACB58   |  | 12mm                  |
| FR12ACB12M  |  | —                     |

### Top Support Adjustable "C" QuikLock™ Bracket



FR12ALB

|         |  |   |
|---------|--|---|
| FR12ALB | Used to support the 12x4 system by attaching to any 0.375" (9.5mm) x 1.5" (38.1mm) or 0.375" (9.5mm) x 2" (50.8mm) ladder rack rail. Adjustable to nine incremental positions from 4" (101mm) to 12" (305mm) above or below the ladder rack. | — |
|---------|--|---|

### Adjustable Ladder Rack Bracket



FR12TRBN58

|             |   |        |
|-------------|---|--------|
| FR12TRBE58  | Used to support the 12x4 system from existing threaded rod installations. | 0.625" |
| FR12TRBE58M |   | 16mm   |

### Existing Threaded Rod QuikLock™ Bracket



FR12CS58

|            |   |        |
|------------|---|--------|
| FR12TRBN58 | Used to support the 12x4 systems from any new threaded rod installations. | 0.625" |
|------------|---|--------|

### New Threaded Rod QuikLock™ Bracket



FR12TB58

|           |  |        |
|-----------|--|--------|
| FR12CS12  | Used to support the 12x4 systems from below with new threaded rod. | 0.5"   |
| FR12CS58  |  | 0.625" |
| FR12CS12M |  | 12mm   |

### Center Support QuikLock™ Bracket

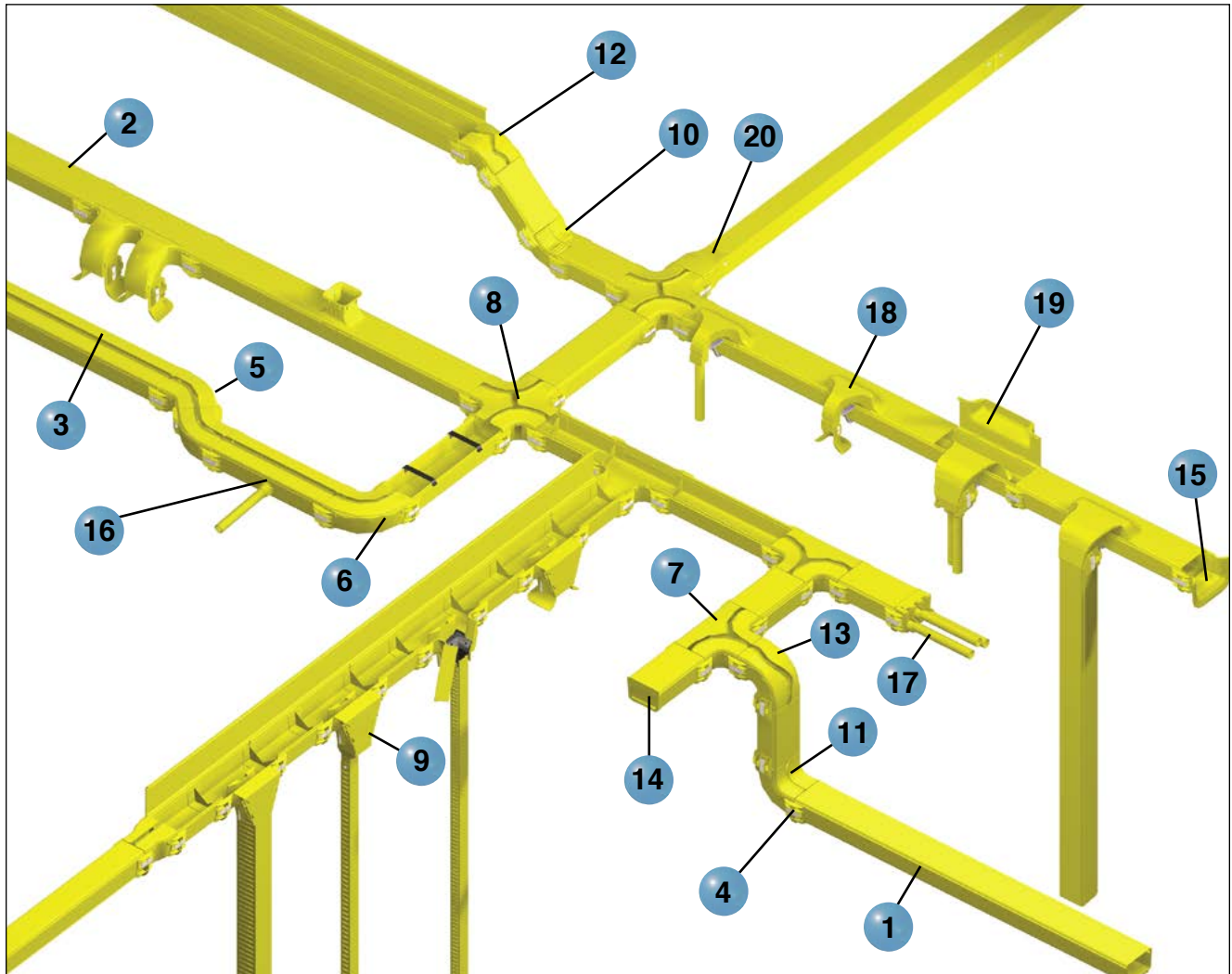


FR12TB58

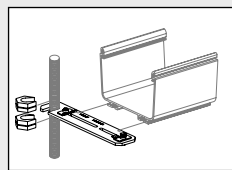
|           |   |        |
|-----------|---|--------|
| FR12TB12  | Used to support the 12x4 system by spanning two threaded rod drops that are 18" apart. Can be installed from above or below. Bracket is secured to each threaded rod with two nuts. The pre-assembled slide clamps enable fast assembly to channel. | 0.5"   |
| FR12TB58  |   | 0.625" |
| FR12TB12M |   | 12mm   |

### Trapeze QuikLock™ Bracket

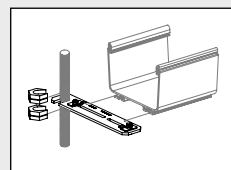
### 6x4 Routing System Roadmap



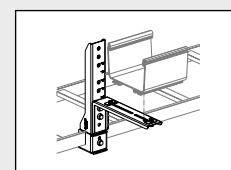
### 4x4 and 6x4 FiberRunner™ Mounting Brackets



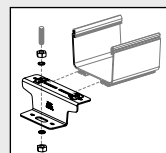
**FR6TRBE58 – Existing Threaded Rod QuikLock™ Bracket (page J.25)**



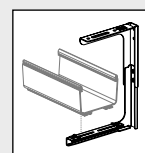
**FR6TRBN58 – New Threaded Rod QuikLock™ Bracket (page J.25)**



**FR6ALB – Adjustable Ladder QuikLock™ Bracket (page J.25)**



**FR6CS58 – Center Support QuikLock™ Bracket (page J.25)**



**FR6ACB58 – Top Support Adjustable “C” QuikLock™ Bracket (page J.25)**

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- |  |  |  |  |
|--|--|--|--|
|  | <b>1</b> FR6X4**10 – 6x4 FiberRunner™ Channel (page J.16)  |  | <b>13</b> FROVRA6X4L** – 6x4 Outside Vertical Right Angle Fitting and FROVRASC6L** – Split Cover (page J.17)             |
|  | <b>2</b> FRHC6**10 – 6x4 Snap-On Hinged Cover (page J.16)  |  | <b>14</b> FREC6X4L** – 6x4 End Cap Fitting (page J.17)   |
|  | <b>3</b> FRSHC6**10 – 6x4 Split Hinged Cover (page J.16)   |  | <b>15</b> FRTR6X4L** – 3-Sided BRC Trumpet Spillout for 6x4 Exit (page J.18)   |
|  | <b>4</b> FRBC6X4L** – 6x4 QuikLock™ Coupler (page J.16)  |  | <b>16</b> FR1.5IDEL** – 1-Port Spillout Side Exit to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.30)           |
|  | <b>5</b> FRH456X4L** – 6x4 Horizontal 45° Angle Fitting and FRH45SC6L** – Split Cover (page J.17)          |  | <b>17</b> FRIDT6X4L** – 3-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.18)                     |
|  | <b>6</b> FRRRA6X4L** – 6x4 Horizontal Right Angle Fitting and FRRASC6L** – Split Cover (page J.17)         |  | <b>18</b> FRSPJ2X2L** – Spill-Over Junction with 2x2 Exit (J.30) and FRSPJC26L** – Cover for 6x4 System (page J.19)      |
|  | <b>7</b> FRT6X4L** – 6x4 Horizontal Tee Fitting and FRTSC6L** – Split Cover (page J.17)                    |  | <b>19</b> FRSPJ4X4L** – Spill-Over Junction with 4x4 Exit (page J.24) and FRSPJC46L** – Cover for 6x4 System (page J.19) |
|  | <b>8</b> FRFWC6X4L** – 6x4 4-Way Cross Fitting and FRFWCSC6L** – Split Cover (page J.16-17)                |  | <b>20</b> FRRF6FR4L** – 6x4 to 4x4 FiberRunner™ Reducer Fitting and FRRF6FR4SCL** – Split Cover (page J.18)              |
|  | <b>9</b> FRVT6X4L** – 6x4 QuikLock™ Vertical Tee (page J.18)   |  |  |
|  | <b>10</b> FRIV456X4L** – 6x4 Inside Vertical 45° Angle Fitting (page J.18)                                 |  |  |
|  | <b>11</b> FRIVRA6X4L** – 6x4 Inside Vertical 90° Angle Fitting (page J.18)                                 |  |  |
|  | <b>12</b> FROV456X4L** – 6x4 Outside Vertical 45° Angle Fitting and FROV45SC6L** – Split Cover (page J.17) |  |  |

\*\*Available Colors: YL (Yellow), and BL (Black).

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A.  
Product  
Showcase

### 6x4 FiberRunner™ Routing System – Channel and Covers

- Robust, large capacity 6x4 system ideal for use with large cable counts
- Multiple spillout options provide versatility to mate to various equipment and rack configurations
- QuikLock™ Couplers and Brackets reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Compatible with all sizes of Panduit™ FiberRunner™ Routing Systems, Cable Management, and Racks
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS) Level 3

B.  
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FR6X4YL10



FRHC6YL10



FRSHC6YL10

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FRBC6X4LYL

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FRFWC6X4LYL

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| Part Number | Description | Color |
|-------------|-------------|-------|
|-------------|-------------|-------|

#### 6x4 Channels

|                  |   |        |
|------------------|---|--------|
| <b>FR6X4YL10</b> | Used to carry the cables horizontally throughout the system. Accepts hinged cable retainers FRCR6BL-X, hinged cover FRHC6YL10 or split hinged cover FRSHC6YL10. Use QuikLock™ Coupler FRBC6X4LYL to attach channel and/or fittings. | Yellow |
|------------------|---|--------|

#### 6x4 Snap-On Hinged Cover

|                  |   |        |
|------------------|---|--------|
| <b>FRHC6YL10</b> | Hinge feature enables positioning of cover at angles between 30° and 90°. | Yellow |
|------------------|---|--------|

#### 6x4 Split Hinged Cover

|                   |  |        |
|-------------------|--|--------|
| <b>FRSHC6YL10</b> | Split hinged cover for the channel FR6X4YL10. Creates radiused 0.75" (19mm) opening for easy access to add or remove cables. Snap-on hinge feature enables positioning of cover at angles between 30° and 90°. | Yellow |
|-------------------|--|--------|

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

### 6x4 FiberRunner™ QuikLock™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly

| Part Number       | Description  | Color  |
|-------------------|--|--------|
| <b>FRBC6X4LYL</b> | Coupler quickly joins two sections of channel and/or fittings. | Yellow |

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

### 6x4 FiberRunner™ System Fittings

- Minimum 2 inches (50.8mm) bend radius control fittings
- Split covers snap onto each fitting
- Protect against signal loss and performance degradation
- Assemble using FRBC QuikLock™ Couplers

| Part Number | Description | Couplers Required | Color |
|-------------|-------------|-------------------|-------|
|-------------|-------------|-------------------|-------|

#### 6x4 Four-Way Cross Fitting

|                    |  |                        |        |
|--------------------|--|------------------------|--------|
| <b>FRFWC6X4LYL</b> | Attaches to a 6x4 channel and/or fittings to create a horizontal four-way cross intersection. Accepts split cover FRFWCSC6LYL. | (4 pcs.)<br>FRBC6X4LYL | Yellow |
|--------------------|--|------------------------|--------|

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).



## 6x4 FiberRunner™ System Fittings (continued)



FRFWCSC6LYL



FRT6X4LYL



FRTSC6LYL



FRH456X4LYL



FRH45SC6LYL



FRRA6X4LYL



FRRASC6LYL



FREC6X4LYL



FROV456X4LYL



FROV45SC6LYL



FROVRA6X4LYL



FROVRASC6LYL

| Part Number | Description | Couplers Required | Color |
|-------------|-------------|-------------------|-------|
|-------------|-------------|-------------------|-------|

### Split Cover for 6x4 Four-Way Cross Fitting

|             |   |   |        |
|-------------|---|---|--------|
| FRFWCSC6LYL | Split cover for the four-way cross fitting FRFWC6X4LYL. | — | Yellow |
|-------------|---|---|--------|

### 6x4 Horizontal Tee Fitting

|           |  |                        |        |
|-----------|--|------------------------|--------|
| FRT6X4LYL | Attaches to a 6x4 channel and/or fittings to create a 90° horizontal branch from a straight horizontal run. Accepts split cover FRTSC6LYL. | (3 pcs.)<br>FRBC6X4LYL | Yellow |
|-----------|--|------------------------|--------|

### Split Cover for 6x4 Horizontal Tee Fitting

|           |  |   |        |
|-----------|--|---|--------|
| FRTSC6LYL | Split cover for the horizontal tee fitting FRT6X4LYL | — | Yellow |
|-----------|--|---|--------|

### 6x4 Horizontal 45° Angle Fitting

|             |  |                        |        |
|-------------|--|------------------------|--------|
| FRH456X4LYL | Attaches to a 6x4 channel and/or fittings to create a 45° horizontal turn from a straight horizontal run. Accepts split cover FRH45SC6LYL. | (2 pcs.)<br>FRBC6X4LYL | Yellow |
|-------------|--|------------------------|--------|

### Split Cover for 6x4 Horizontal 45° Angle Fitting

|             |   |   |        |
|-------------|---|---|--------|
| FRH45SC6LYL | Split cover for the horizontal 45° angle fitting FRH456X4LYL. | — | Yellow |
|-------------|---|---|--------|

### 6x4 Horizontal Right Angle Fitting

|           |   |                        |        |
|-----------|---|------------------------|--------|
| FRR6X4LYL | Attaches to a 6x4 channel and/or fittings to create a 90° horizontal turn from a straight horizontal run. Accepts split cover FRRASC6LYL. | (2 pcs.)<br>FRBC6X4LYL | Yellow |
|-----------|---|------------------------|--------|

### Split Cover for 6x4 Horizontal Right Angle Fitting

|            |   |   |        |
|------------|---|---|--------|
| FRRASC6LYL | Split cover for the horizontal right angle fitting FRR6X4LYL. | — | Yellow |
|------------|---|---|--------|

### 6x4 End Cap Fitting

|            |  |   |        |
|------------|--|---|--------|
| FREC6X4LYL | Used for closing off open ends of the channel or fittings. | — | Yellow |
|------------|--|---|--------|

### 6x4 Outside Vertical 45° Angle Fitting

|              |  |                        |        |
|--------------|--|------------------------|--------|
| FROV456X4LYL | Attaches to a 6x4 channel and/or fittings to create a 45° upward angle from a straight horizontal run. Used with outside vertical 45° angle fitting FROV456X4LYL to change level of a straight horizontal run. Includes split cover. | (2 pcs.)<br>FRBC6X4LYL | Yellow |
|--------------|--|------------------------|--------|

### Split Cover for 6x4 Outside Vertical 45° Angle Fitting

|              |  |   |        |
|--------------|--|---|--------|
| FROV45SC6LYL | Split cover for the outside vertical 45° angle fitting FROV456X4LYL. | — | Yellow |
|--------------|--|---|--------|

### 6x4 Outside Vertical Right Angle Fitting

|              |  |                        |        |
|--------------|--|------------------------|--------|
| FROVRA6X4LYL | Attaches to a 6x4 channel and/or fittings to create a 90° vertical turn down from a straight horizontal run. Accepts split cover FROVRASC6LYL. | (2 pcs.)<br>FRBC6X4LYL | Yellow |
|--------------|--|------------------------|--------|

### Split Cover for 6x4 Outside Vertical Right Angle Fitting

|              |  |   |        |
|--------------|--|---|--------|
| FROVRASC6LYL | Split cover for the outside vertical right angle fitting FROVRA6X4LYL. | — | Yellow |
|--------------|--|---|--------|

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### 6x4 FiberRunner™ System Fittings (continued)

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FRIV456X4LYL

C.  
Fiber  
Systems



FRIVRA6X4LYL

D.  
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FRRF6FR4LYL

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FRRF6FR4SCLYL

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Mgmt., Racks,  
Enclosures  
& Cable  
Mgmt

- Spill-overs allow safe transition from horizontal to vertical runs
- 2 inch (50.8mm) bend radius control
- Transition to channel, slotted channel, and corrugated loom tubing

H.  
Power and  
Connectivity  
Management



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Cable  
Management  
Accessories



FRTR6X4LYL

J.  
Cable  
Routing  
Systems



FRIDT6X4LYL

K.  
Cable  
Cleats

FRIDT6X4LYL

L.  
Part  
Number  
Index

| Part Number | Description | Couplers Required | Color |
|-------------|-------------|-------------------|-------|
|-------------|-------------|-------------------|-------|

#### 6x4 Inside Vertical 45° Angle Fitting

|              |  |                        |        |
|--------------|--|------------------------|--------|
| FRIV456X4LYL | Attaches to a 6x4 channel and/or fittings to create a 45° upward angle from a straight horizontal run. Used with outside vertical 45° angle fitting FROV456X4LYL to change level of a straight horizontal run. Includes split cover. | (2 pcs.)<br>FRBC6X4LYL | Yellow |
|--------------|--|------------------------|--------|

#### 6x4 Inside Vertical Right Angle Fitting

|              |  |                        |        |
|--------------|--|------------------------|--------|
| FRIVRA6X4LYL | Attaches to a 6x4 channel and/or fittings to create a 90° upward angle from a straight horizontal run. Used with outside vertical 90° angle fitting FROVRA6X4LYL to change level of a straight horizontal run. Includes split cover. | (2 pcs.)<br>FRBC6X4LYL | Yellow |
|--------------|--|------------------------|--------|

#### 6x4 to 4x4 Reducer Fitting

|             |   |  |        |
|-------------|---|--|--------|
| FRRF6FR4LYL | Attaches any 6x4 FiberRunner™ Fitting or Channel to any 4x4 FiberRunner™ Fitting or Channel. Accepts split cover FRRF6FR4SCLYL. | (1 pc.)<br>FRBC6X4LYL<br>(1 pc.)<br>FRBC4X4LYL | Yellow |
|-------------|---|--|--------|

#### Split Cover for 6x4 to 4x4 Reducer Fitting

|               |   |   |        |
|---------------|---|---|--------|
| FRRF6FR4SCLYL | Split cover for the 6x4 FiberRunner™ to 4x4 FiberRunner™ Reducer Fitting FRRF6FR4LYL. | — | Yellow |
|---------------|---|---|--------|

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

### 6x4 FiberRunner™ System Spillouts

| Part Number | Description | Couplers Required | Color |
|-------------|-------------|-------------------|-------|
|-------------|-------------|-------------------|-------|

#### 6x4 Vertical Tee

|                                 |  |                        |        |
|---------------------------------|--|------------------------|--------|
| <b>BEST SELLER</b><br>FRVT6X4YL | Attaches to a 6x4 channel and/or fittings to create 90° vertical drop from a straight horizontal run. Hinged door included. Accepts snap-on cover FRHC6LYL6 in conjunction with channel. | (2 pcs.)<br>FRBC6X4LYL | Yellow |
|---------------------------------|--|------------------------|--------|

#### 3-Sided BRC Trumpet Spillout for 6x4 Exit

|            |  |                       |        |
|------------|--|-----------------------|--------|
| FRTR6X4LYL | Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from 6x4 channel, 6x4 horizontal tee fitting, or 6x4 exit on 12x4 vertical tee. | (1 pc.)<br>FRBC6X4LYL | Yellow |
|------------|--|-----------------------|--------|

#### 3-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing

|             |   |                       |        |
|-------------|---|-----------------------|--------|
| FRIDT6X4LYL | Used to route cable into three separate pieces of 1.5" (38mm) diameter split corrugated tubing. Used with FRVT12X4LYL or any 6x4 fitting. | (1 pc.)<br>FRBC6X4LYL | Yellow |
|-------------|---|-----------------------|--------|

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black).

## 6x4 FiberRunner™ System Spillouts (continued)



FRDDS6X4LYL



FRDDSHC6LYL



FRSPJC26LYL



FRSPJC46LYL



FRCR6LBL-X

| Part Number  | Description  | Couplers Required    | Color  |
|--|--|----------------------|--------|
| <b>Dual Downspout with Throat Covers</b>   |  |                      |        |
| FRDDS6X4LYL  | Attaches to a 6x4 channel and/or fitting to create two 90° 4x4 downward transitions from a horizontal run. The fitting maintains a 2" bend radius control throughout the transition to the vertical downspouts. It includes two snap-on throat covers for the dual downspouts. | -                    | Yellow |
| <b>6x4 Dual Downspout Cover</b>  |  |                      |        |
| FRDDSHC6LYL  | Used to fully enclose the 6x4 dual downspout fitting FRDDS6X4LYL.  | -                    | Yellow |
| <b>6x4 Spill-Over Junction with 2x2 Exit</b>   |  |                      |        |
| FRSPJC26LYL  | Assembles onto 4x4, 6x4, 12x4, or 24x4 FiberRunner™ Channel, spilling over the side into a 2x2 vertical exit. Requires coupler to attach 2x2 FiberRunner™ and fittings to the vertical exit.   | (1 pc.)<br>FBC2X2LYL | Yellow |
| <b>Cover for Spill-Over Junction with 4x4 Exit for 6x4 Channel</b>   |  |                      |        |
| FRSPJC46LYL  | Used to fully enclose 6x4 channel in conjunction with the spill-over junction FRSPJ4X4LYL.   | -                    | Yellow |
| Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors replace YL (Yellow) with BL (Black). |  |                      |        |
| <b>6x4 Cable Retainer</b>  |  |                      |        |
| FRCR6LBL-X   | Holds cable in the channel when cover is not used.   | -                    | Black  |

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D. Industrial Networks

E. Audio Video Systems

F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H. Power and Connectivity Management

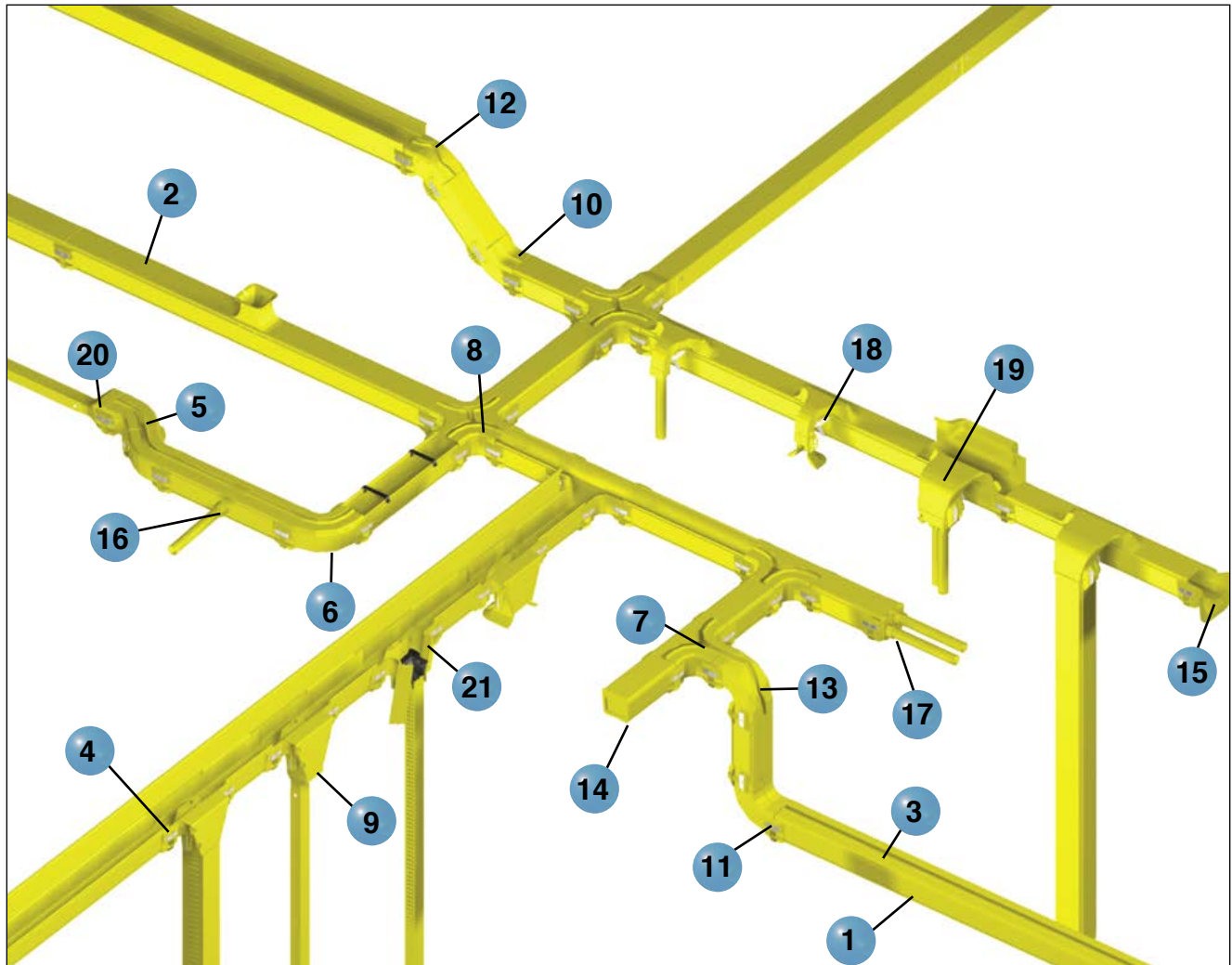
I. Cable Management Accessories

J. Cable Routing Systems

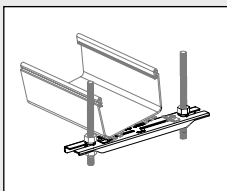
K. Cable Cleats

L. Part Number Index

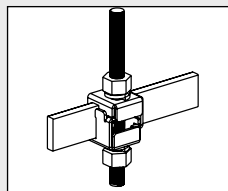
### 4x4 Routing System Roadmap



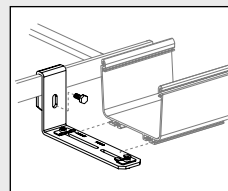
### 4x4 and 6x4 FiberRunner™ Mounting Brackets



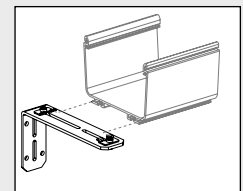
**FR6TB38 – Trapeze QuikLock™ Bracket**  
(page J.25)



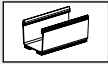
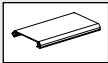
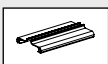

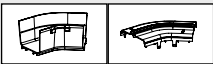









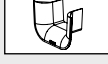
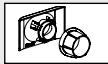





**F2PCLB – Two-Piece Ladder Rack Bracket**  
for Attaching Threaded Rod to 1 1/2" – 2" Ladder Rack  
(page J.25)



**FR6LRB – Ladder Rack QuikLock™ Bracket**  
(page J.25)



**FR6LB – "L" Wall Mount QuikLock™ Bracket**  
(page J.25)

- |   |  |
|---|--|
| <p> <b>1</b> FR4X4**10 – 4x4 FiberRunner™ Channel (page J.22)</p> <p> <b>2</b> FRHC4**10 – 4x4 Snap-On Hinged Cover (page J.22)</p> <p> <b>3</b> FRSHC4**10 – 4x4 Split Hinged Cover (page J.22)</p> <p> <b>4</b> FRBC4X4L** – 4x4 QuikLock™ Coupler (page J.22)</p> <p> <b>5</b> FRH454X4L** – 4x4 Horizontal 45° Angle Fitting and FRH45SC4L** – Split Cover (page J.23)</p> <p> <b>6</b> FRRA4X4L** – 4x4 Horizontal Right Angle Fitting and FRRASC4L** – Split Cover (page J.23)</p> <p> <b>7</b> FRT4X4L** – 4x4 Horizontal Tee Fitting and FRTSC4L** – Split Cover (page J.22 - J.23)</p> <p> <b>8</b> FRFWC4X4L** – 4x4 4-Way Cross Fitting and FRFWCSC4L** – Split Cover (page J.22)</p> <p> <b>9</b> FRVT4X4L** – 4x4 QuikLock™ Vertical Tee (page J.24)</p> <p> <b>10</b> FRIV454X4L** – 4x4 Inside Vertical 45° Angle Fitting (page J.23)</p> <p> <b>11</b> FRIVRA4X4L** – 4x4 Inside Vertical Right Angle Angle Fitting (page J.23)</p> <p> <b>12</b> FROV454X4L** – 4x4 Outside Vertical 45° Angle Fitting and FROV45SC4L** – Split Cover (page J.23)</p> | <p> <b>13</b> FROVRA4X4L** – 4x4 Outside Vertical Right Angle Fitting and FROVRASC4L** – Split Cover (page J.23)</p> <p> <b>14</b> FREC4X4L** – 4x4 End Cap Fitting (page J.23)</p> <p> <b>15</b> FRTR4X4L** – 3-Sided BRC Trumpet Spillout for 4x4 FiberRunner™ Exit (page J.24)</p> <p> <b>16</b> FR1.5IDEL** – 1-Port Spillout Side Exit to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.30)</p> <p> <b>17</b> FRIDT4X4L** – 2-Port Spillout to 1.5" (38mm) inside diameter Corrugated Tubing (page J.24)</p> <p> <b>18</b> FRSPJ2X2L** – Spill-Over Junction with 2x2 Exit and FRSPJC24L** – Cover for 4x4 System (page J.30)</p> <p> <b>19</b> FRSPJ4X4L** – Spill-Over Junction with 4x4 Exit and FRSPJC44L** – Cover for 4x4 System (page J.24)</p> <p> <b>20</b> FRRF4FD2L** – 4x4 FiberRunner™ System to 2x2 Reducer Fitting with Cover (page J.23)</p> <p> <b>21</b> FRLPR42L** – Low Profile Reducer 4x4 to 2x2 for Vertical Tee (page J.30)</p> |
|---|--|
- \*\*Available colors: YL (Yellow) and BL (Black).

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F.  
Keystone Cabling Systems

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Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

H.  
Power and Connectivity Management

I.  
Cable Management Accessories

J.  
Cable Routing Systems

K.  
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L.  
Part Number Index



A. Product Showcase

### 4x4 FiberRunner™ Routing System – Channels and Covers

- Robust 4x4 system ideal for use with smaller cable counts
- Multiple spillout options provide versatility to mate to various equipment and rack configurations
- QuikLock™ Couplers and Brackets reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Compatible with all sizes of Panduit™ FiberRunner™ Routing Systems, Cable Management, and Racks
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS) Level 3

B. Copper Systems

C. Fiber Systems

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F. Keystone Cabling Systems

G. Cabinets, Thermal Mgmt, Racks, Enclosures & Cable Mgmt

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I. Cable Management Accessories

J. Cable Routing Systems

K. Cable Cleats

L. Part Number Index



| Part Number                     | Description   | Color  |
|---------------------------------|---|--------|
| <b>4x4 Channels</b>             |   |        |
| <b>FR4X4YL10</b>                | Used to carry the cables horizontally throughout the system. Accepts hinged cable retainers FRCR4LBL-X, hinged cover FRHC4YL10, or split hinged cover FRSHC4YL10. Use QuikLock™ Coupler FRBC4X4LYL to attach channel and/or fittings. | Yellow |
| <b>4x4 Snap-On Hinged Cover</b> |   |        |
| <b>FRHC4YL10</b>                | Snap-on hinged cover for channel FR4X4YL10. Hinge feature enables positioning of cover at angles between 30° to 90°.  | Yellow |
| <b>4x4 Split Hinged Cover</b>   |   |        |
| <b>FRSHC4YL10</b>               | Split hinged cover for the channel FR4X4YL10. Creates radiused 0.75" (19mm) opening for easy access to add or remove cables. Snap-on hinge feature enables positioning of cover at angles between 30° and 90°.                        | Yellow |

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors, replace YL (Yellow) with BL (Black).

### 4x4 FiberRunner™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly



| Part Number         | Description  | Color  |
|---------------------|--|--------|
| <b>FRBC4X4LYL</b>   | Pre-assembled coupler quickly joins two sections of channel and/or fittings. | Yellow |
| <b>FRBC4X4LYL-E</b> |  |        |

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors, replace YL (Yellow) with BL (Black). -E indicates 20 couplers per package.

### 4x4 FiberRunner™ System Fittings

- Minimum 2 inch (50.8mm) bend radius control fittings
- Protects against signal loss and performance degradation
- Assemble using FRBC QuikLock™ Couplers
- Split covers snap onto each fitting



| Part Number                                       | Description   | Couplers Required   | Color  |
|---|---|---------------------|--------|
| <b>4x4 Four Way Cross Fitting</b>                 |   |                     |        |
| <b>FRFWC4X4LYL</b>                                | Attaches to a 4x4 channel and/or fittings to create a horizontal four way cross intersection. Accepts split cover FRFWCSC4LYL.          | (4 pcs.) FRBC4X4LYL | Yellow |
| <b>Split Cover for 4x4 Four Way Cross Fitting</b> |   |                     |        |
| <b>FRFWCSC4LYL</b>                                | Split cover for the four way cross fitting FRFWC4X4LYL.   | —                   | Yellow |
| <b>4x4 Horizontal Tee Fitting</b>                 |   |                     |        |
| <b>FRT4X4LYL</b>                                  | Attaches to a 4x4 channel and/or fittings to create 90° horizontal branch from straight horizontal runs. Accepts split cover FRTSC4LYL. | (3 pcs.) FRBC4X4LYL | Yellow |

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors, replace YL (Yellow) with BL (Black).

## 4x4 FiberRunner™ System Fittings



FRTSC4LYL



FREC4X4LYL



FRH454X4LYL



FRH45SC4LYL



FRRA4X4LYL



FRRASC4LYL



FROV454X4LYL



FROV45SC4LYL



FROVRA4X4LYL



FROVRASC4LYL



FRIV454X4LYL



FRIVRA4X4LYL



FRRF4FD2LYL

| Part Number   | Part Description   | Couplers Required      | Color  |
|---|--|------------------------|--------|
| <b>Split Cover for 4x4 Horizontal Tee Fitting</b>               |  |                        |        |
| FRTSC4LYL   | Split cover for the horizontal tee fitting FRT4X4LYL.  | —                      | Yellow |
| <b>4x4 End Cap Fitting</b>                                      |  |                        |        |
| FREC4X4LYL  | Used for closing off open ends of the channel or fittings.   | —                      | Yellow |
| <b>4x4 Horizontal 45° Angle Fitting</b>                         |  |                        |        |
| FRH454X4LYL   | Attaches to a 4x4 channel and/or fittings to create a 45° horizontal turn from a straight horizontal run. Accepts split cover FRH45SC4LYL.   | (2 pcs.)<br>FRBC4X4LYL | Yellow |
| <b>Split Cover for 4x4 Horizontal 45° Angle Fitting</b>         |  |                        |        |
| FRH45SC4LYL   | Split cover for the horizontal 45° angle fitting FRH454X4LYL.  | —                      | Yellow |
| <b>4x4 Horizontal Right Angle Fitting</b>                       |  |                        |        |
| FRRA4X4LYL  | Attaches to a 4x4 channel and/or fitting to create a 90° horizontal turn from a straight horizontal run. Accepts split cover FRRASC4LYL.   | (2 pcs.)<br>FRBC4X4LYL | Yellow |
| <b>Split Cover for 4x4 Horizontal Right Angle Fitting</b>       |  |                        |        |
| FRRASC4LYL  | Split cover for the horizontal right angle fitting FRRA4X4LYL.   | —                      | Yellow |
| <b>4x4 Outside Vertical 45° Angle Fitting</b>                   |  |                        |        |
| FROV454X4LYL  | Attaches to a 4x4 channel and/or fittings to create a 45° downward angle from a horizontal run. Used with inside vertical 45° angle fitting FRIV454X4LYL to change level of a straight horizontal run. Accepts split cover FROV45SC4LYL. | (2 pcs.)<br>FRBC4X4LYL | Yellow |
| <b>Split Cover for 4x4 Outside Vertical 45° Angle Fitting</b>   |  |                        |        |
| FROV45SC4LYL  | Split cover for the outside vertical 45° angle fitting FROV454X4LYL.   | —                      | Yellow |
| <b>4x4 Outside Vertical Right Angle Fitting</b>                 |  |                        |        |
| FROVRA4X4LYL  | Attaches to a 4x4 channel and/or fittings to create a 90° vertical turn down from a straight horizontal run. Accepts split cover FROVRASC4LYL.   | (2 pcs.)<br>FRBC4X4LYL | Yellow |
| <b>Split Cover for 4x4 Outside Vertical Right Angle Fitting</b> |  |                        |        |
| FROVRASC4LYL  | Split cover for the outside vertical 90° angle fitting FROVRA4X4LYL.   | —                      | Yellow |
| <b>4x4 Inside Vertical 45° Angle Fitting</b>                    |  |                        |        |
| FRIV454X4LYL  | Attaches to a 4x4 channel and/or fittings to create a 45° upward angle from a horizontal run. Used with outside vertical 45° angle fitting FROV454X4LYL to change level of a straight horizontal run. Includes split cover.              | (2 pcs.)<br>FRBC4X4LYL | Yellow |
| <b>4x4 Inside Vertical Right Angle Fitting</b>                  |  |                        |        |
| FRIVRA4X4LYL  | Attaches to a 4x4 channel and/or fittings to create a 90° upward angle from a straight horizontal run. Used with outside vertical 90° angle fitting FROVRA4X4LYL to change level of a straight horizontal run. Includes split cover.     | (2 pcs.)<br>FRBC4X4LYL | Yellow |
| <b>4x4 to 2x2 Reducer Fitting with Cover</b>                    |  |                        |        |
| FRRF4FD2LYL   | Attaches any 4x4 FiberRunner™ Fitting or Channel to any 2x2 FiberRunner™ Channel.  | (1 pc.)<br>FRBC4X4LYL  | Yellow |

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors, replace YL (Yellow) with BL (Black).

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### 4x4 FiberRunner™ System Spillouts

- Spill-overs allow safe transition from horizontal to vertical runs
- 2 inch (50.8mm) bend radius control
- Transition to channel, slotted channel, and corrugated loom tubing

A. Product Showcase  
 B. Copper Systems  
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FRVT4X4LYL



FTR4X4LYL



FRTR4X4LYL



FRIDR4X4LYL



FRSPJ4X4LYL



FRSPJC44LYL



FRSPJC24LYL



FRCR4LBL-X

| Part Number | Description | Couplers Required | Color |
|-------------|-------------|-------------------|-------|
|-------------|-------------|-------------------|-------|

#### 4x4 Vertical Tee Spillout

**BEST SELLER**

|            |   |                        |        |
|------------|---|------------------------|--------|
| FRVT4X4LYL | Attaches to a 4x4 channel and/or fittings to create a 90° vertical drop from a horizontal run. Hinged door included. Accepts snap-on cover FRHC4LYL6 in conjunction with channel. | (2 pcs.)<br>FRBC4X4LYL | Yellow |
|------------|---|------------------------|--------|

#### 3-Sided Vertical Tee Trumpet Spillout

|           |  |   |        |
|-----------|--|---|--------|
| FTR4X4LYL | Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from a 4x4 or 6x4 FiberRunner™ Vertical Tee or 4x4 Fitting. | - | Yellow |
|-----------|--|---|--------|

#### 3-Sided BRC Trumpet Spillout for 4x4 Exit

|            |   |                       |        |
|------------|---|-----------------------|--------|
| FRTR4X4LYL | Used to limit the bend radius of the cable to 2" (50.8mm) when exiting from 4x4 FiberRunner™ Channel or Horizontal Tee. | (1 pc.)<br>FRBC4X4LYL | Yellow |
|------------|---|-----------------------|--------|

#### 2-Port Spillout to 1.5 inch (38mm) Inside Diameter Corrugated Tubing

|             |  |                       |        |
|-------------|--|-----------------------|--------|
| FRIDR4X4LYL | Used to route cable into one or two pieces of 1.5" (38mm) diameter split corrugated tubing. Requires a coupler to be used with 4x4 FiberRunner™ Fitting. | (1 pc.)<br>FRBC4X4LYL | Yellow |
|-------------|--|-----------------------|--------|

#### 4x4 Spill-Over Junction Fitting with 4x4 Exit

|             |  |                       |        |
|-------------|--|-----------------------|--------|
| FRSPJ4X4LYL | Assembles onto a 4x4, 6x4, 12x4, or 24x4 FiberRunner™ Channel, spilling over the side into a 4x4 vertical exit. Requires a coupler to attach channels and fittings to the vertical exit. | (1 pc.)<br>FRBC4X4LYL | Yellow |
|-------------|--|-----------------------|--------|

#### Cover for Spill-Over Junction Fitting with 4x4 Exit

|             |  |   |        |
|-------------|--|---|--------|
| FRSPJC44LYL | Used to fully enclose 4x4 channel in conjunction with the spill-over junction FRSPJ4X4LYL. | - | Yellow |
|-------------|--|---|--------|

#### Cover for Spill-Over Junction with 2x2 Exit for 4x4 Channel

|             |  |   |        |
|-------------|--|---|--------|
| FRSPJC24LYL | Used to fully enclose 4x4 channel in conjunction with the spill-over junction FRSPJ2X2LYL. | - | Yellow |
|-------------|--|---|--------|

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors, replace YL (Yellow) with BL (Black).

#### 4x4 Cable Retainer

|            |  |   |       |
|------------|--|---|-------|
| FRCR4LBL-X | Holds cable in the channel when cover is not used. | - | Black |
|------------|--|---|-------|

## 4x4 and 6x4 FiberRunner™ Mounting Brackets



| Part Number | Description | Couplers Required |
|-------------|-------------|-------------------|
|-------------|-------------|-------------------|

### Top Support Adjustable “C” QuikLock™ Bracket

|           |  |       |
|-----------|--|-------|
| 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. | 0.5"  |
| FR6ACB12M |  | 12mm  |
| FR6ACB58  |  | 16 mm |

### Adjustable Ladder Bracket

|                              |   |   |
|------------------------------|---|---|
| <b>BEST SELLER</b><br>FR6ALB | Used to support the 6x4 and 4x4 systems attaching to any 0.375" (9.5mm) x 1.5" (38.1mm) or 0.375" (9.5mm) x 2" (50.8mm) ladder rack rail. Adjustable to nine incremental positions from 4" (101mm) to 12" (305mm) above or below the ladder rack. | - |
|------------------------------|---|---|

### Existing Threaded Rod QuikLock™ Bracket

|                                 |   |        |
|---------------------------------|---|--------|
| <b>BEST SELLER</b><br>FR6TRBE12 | Used to support the 6x4 and 4x4 systems from existing threaded rod installations. | 0.5"   |
| FR6TRBE58                       |   | 0.625" |

### New Threaded Rod QuikLock™ Bracket

|           |  |        |
|-----------|--|--------|
| FR6TRBN12 | Used to support the 6x4 and 4x4 systems from any new threaded rod installations. | 0.5"   |
| FR6TRBN58 |  | 0.625" |

### Trapeze QuikLock™ Bracket

|          |   |      |
|----------|---|------|
| FR6TB12M | Used to support the 6x4 and 4x4 systems by spanning two threaded rod drops. Can be installed from above or below. | 12mm |
| FR6TB38  |   | 10mm |

### Center Support QuikLock™ Bracket

|          |   |        |
|----------|---|--------|
| FR6CS12  | Used to support the 6x4 and 4x4 systems from below with new threaded rod. | 0.5"   |
| FR6CS58  |   | 0.625" |
| FR6CS12M |   | 12mm   |

### Ladder Rack QuikLock™ Bracket

|       |  |   |
|-------|--|---|
| FR6LB | Used to support the 6x4 and 4x4 systems attaching directly to any 0.375" (9.5mm) x 1.5" (38.1mm) or 0.375" (9.5mm) x 2" (50.8mm) ladder rack rail. | - |
|-------|--|---|

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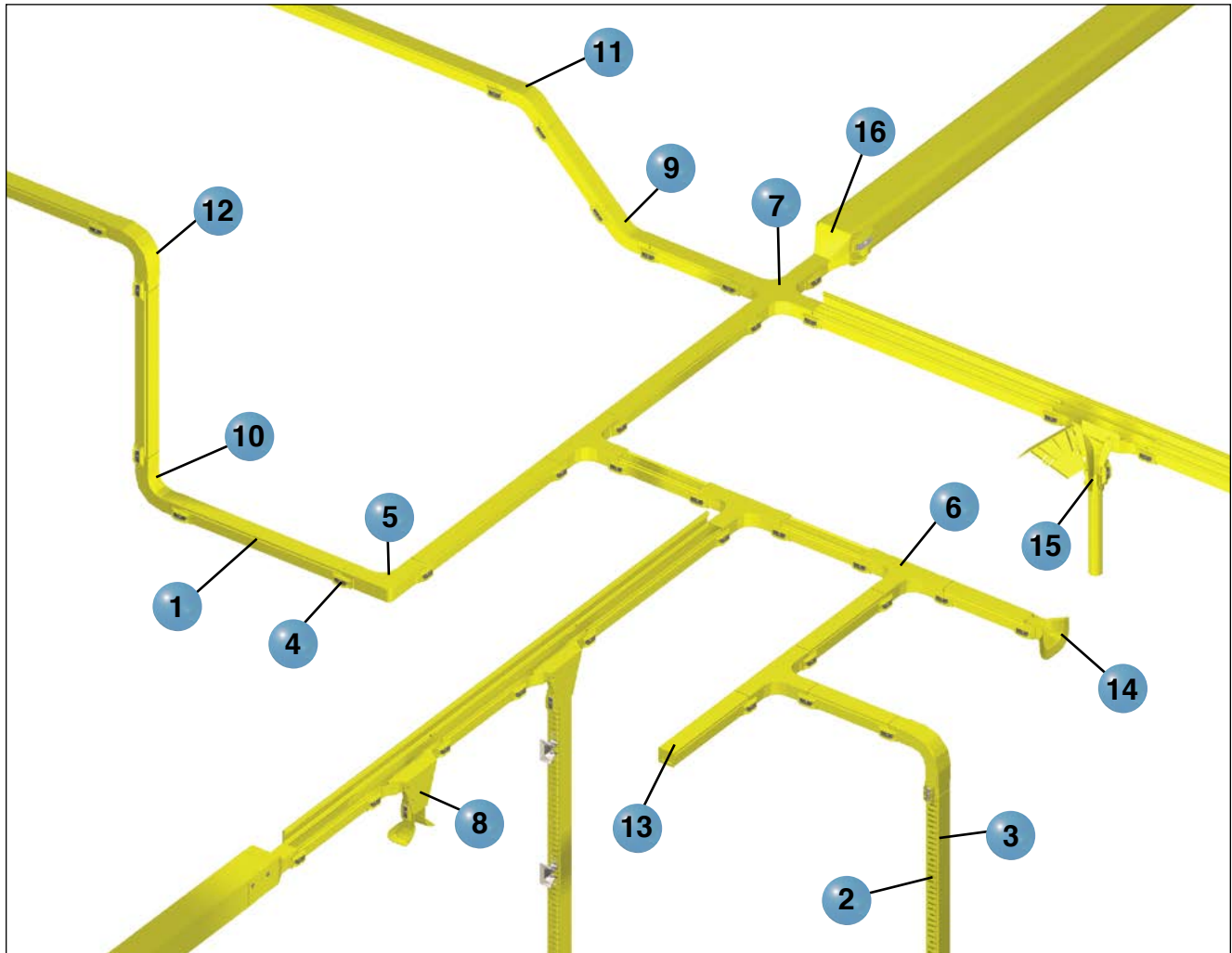
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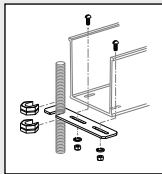
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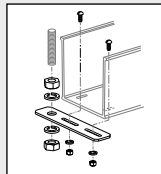
### 2x2 Routing System Roadmap



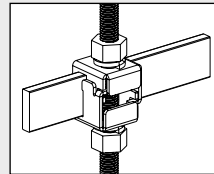
### FiberRunner™ Mounting Brackets



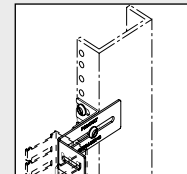
**FTRBE12 – Existing Threaded Rod Bracket** (page J.31)



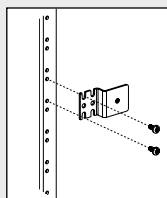
**FTRBN12 – New Threaded Rod Bracket** (page J.31)



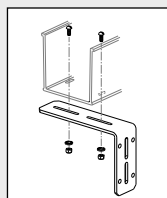
**F2PCLB12 – Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1.5" – 2" Ladder Rack** (page J.31)



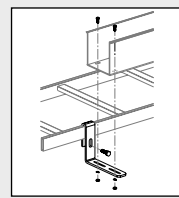
**FZBA1.5X4 – Adjustable "Z" Bracket** (page J.31)



**FZBLP – Low Profile "Z" Bracket** (page J.31)



**FLB – "L" Wall Mount Bracket** (page J.31)



**FLRB – Ladder Rack Bracket** (page J.31)



- |  |           |   |
|--|-----------|---|
|   | <b>1</b>  | HS2X2**10 – 2x2 FiberRunner™ Hinged Channel (page J.28)                                   |
|   | <b>2</b>  | H2X2**10 – 2x2 FiberRunner™ Hinged Slotted Channel (page J.28)                            |
|   | <b>3</b>  | HC2**10 – 2x2 FiberRunner™ Snap-On Hinged Cover (page J.28)                               |
|   | <b>4</b>  | FBC2X2L** – 2x2 QuikLock™ Coupler (page J.28)   |
|   | <b>5</b>  | FRA2X2L** – 2x2 Horizontal Right Angle Fitting (page J.29)                                |
|   | <b>6</b>  | FT2X2L** – 2x2 Horizontal Tee Fitting (page J.28)   |
|   | <b>7</b>  | FFWC2X2L** – 2x2 4-Way Cross Fitting (page J.28)  |
|   | <b>8</b>  | FVTHD2X2L** – 2x2 Vertical Tee (page J.29)  |
|    | <b>9</b>  | FIV452X2L** – 2x2 Inside Vertical 45° Angle Fitting (page J.29)                           |
|   | <b>10</b> | FIVRA2X2L** – 2x2 Inside Vertical Right Angle Fitting (page J.29)                         |
|   | <b>11</b> | FOV452X2L** – 2x2 Outside 45° Angle Fitting (page J.29)                                   |
|   | <b>12</b> | FOVRA2X2L** – 2x2 Outside Vertical Right Angle Fitting (page J.29)                        |
|   | <b>13</b> | FHDEC2X2L** – 2x2 End Cap Fitting (page J.29)   |
|   | <b>14</b> | FTR2X2L** – 3-Sided BRC Trumpet Spillout for 2x2 Exit (page J.29)                         |
|  | <b>15</b> | FIDT2X2L** – 1-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing (page J.30) |
|   | <b>16</b> | FRRF4FD2L** – 4x4 FiberRunner™ to 2x2 Reducer Fitting (page J.23)                         |

\*\*Available colors: YL (Yellow) and BL (Black).

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## 2x2 FiberRunner™ Routing System – Channel and Covers

- 2x2 system ideal for use with smaller cable counts
- Multiple spillout options provide versatility to mate to various equipment and rack configurations
- QuikLock™ Couplers reduce system installation time dramatically
- Channel, covers, fittings and other non-metallic system components made from V-0 flame class rated material
- Compatible with all sizes of Panduit™ FiberRunner™ Routing Systems, Cable Management, and Racks
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems (NEBS) Level 3



HS2X2YL10NM



H2X2YL10



HC2YL10

| Part Number | Description | Color |
|-------------|-------------|-------|
|-------------|-------------|-------|

### 2x2 Hinged Channel

|             |   |        |
|-------------|---|--------|
| HS2X2YL10NM | Used to carry the cables throughout the system. Accepts hinged cover HC2YL10. Use QuikLock™ Coupler FBC2X2YL to attach channel and/or fittings. | Yellow |
|-------------|---|--------|

### 2x2 Hinged Slotted Channel

|          |  |        |
|----------|--|--------|
| H2X2YL10 | Used to carry the cables vertically to the front or the back of equipment racks throughout the system. Accepts hinged cover HC2YL10. Extra supports required when used in horizontal applications. Use QuikLock™ Coupler FBC2X2YL to attach channel and/or fittings. | Yellow |
|----------|--|--------|

### 2x2 Hinged Snap-On Cover

|         |   |        |
|---------|---|--------|
| HC2YL10 | Snap-on cover for hinged channel HS2X2YL10 or H2X2YL10. Cover can hinge open to 90° from either side of the channel and be removed completely if desired. | Yellow |
|---------|---|--------|

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors, replace YL (Yellow) with BL (Black).

## 2x2 FiberRunner™ QuikLock™ Coupler

- Pre-assembled to provide fast mechanical assembly of components
- No tools required for installation; bolts loosen for component disassembly



BEST SELLER

| Part Number | Description   | Color  |
|-------------|---|--------|
| FBC2X2LYL   | Coupler quickly joins two sections of hinged channel and/or fittings. | Yellow |

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors, replace YL (Yellow) with BL (Black).

## 2x2 FiberRunner™ System Fittings



FFWC2X2LYL



FT2X2LYL

| Part Number | Description | Couplers Required | Color |
|-------------|-------------|-------------------|-------|
|-------------|-------------|-------------------|-------|

### 2x2 Four Way Cross Fitting

|            |  |                    |        |
|------------|--|--------------------|--------|
| FFWC2X2LYL | Attaches to a 2x2 channel and/or fittings to create a horizontal four way cross intersection. Accepts split cover FRFWCSC2LYL. | (4 pcs.) FBC2X2LYL | Yellow |
|------------|--|--------------------|--------|

### 2x2 Horizontal Tee Fitting

|          |   |                     |        |
|----------|---|---------------------|--------|
| FT2X2LYL | Attaches to 4x4 a channel and/or fittings to create 90° horizontal branch from straight horizontal runs. Accepts split cover FRTSC2LYL. | (3 pcs.) FRBC2X2LYL | Yellow |
|----------|---|---------------------|--------|

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors, replace YL (Yellow) with BL (Black).

## 2x2 FiberRunner™ System Fittings



| Part Number                                     | Description  | Couplers Required     | Color  |
|---|--|-----------------------|--------|
| <b>2x2 End Cap Fitting</b>                      |  |                       |        |
| FHDEC2X2LYL                                     | Used for closing off open ends of the channel or fittings.   | -                     | Yellow |
| <b>2x2 Horizontal Right Angle Fitting</b>       |  |                       |        |
| FRA2X2LYL                                       | Attaches to a 2x2 channel and/or fitting to create a 90° horizontal turn from a straight horizontal run. Accepts split cover FRRASC2LYL.   | (2 pcs.)<br>FBC2X2LYL | Yellow |
| <b>2x2 Outside Vertical 45° Angle Fitting</b>   |  |                       |        |
| FOV452X2LYL                                     | Attaches to a 2x2 channel and/or fittings to create a 45° downward angle from a horizontal run. Used with inside vertical 45° angle fitting FRIV452X2LYL to change level of a straight horizontal run. Accepts split cover FROV45SC2LYL. | (2 pcs.)<br>FBC2X2LYL | Yellow |
| <b>2x2 Outside Vertical Right Angle Fitting</b> |  |                       |        |
| FOVRA2X2LYL                                     | Attaches to a 2x2 channel and/or fittings to create a 90° vertical turn down from a straight horizontal run. Accepts split cover FROVRASC2LYL.   | (2 pcs.)<br>FBC2X2LYL | Yellow |
| <b>2x2 Inside Vertical 45° Angle Fitting</b>    |  |                       |        |
| FIV452X2LYL                                     | Attaches to a 2x2 channel and/or fittings to create a 45° upward angle from a horizontal run. Used with outside vertical 45° angle fitting FROV452X2LYL to change level of a straight horizontal run. Includes split cover.              | (2 pcs.)<br>FBC2X2LYL | Yellow |
| <b>2x2 Inside Vertical Right Angle Fitting</b>  |  |                       |        |
| FIVRA2X2LYL                                     | Attaches to a 2x2 channel and/or fittings to create a 90° upward angle from a straight horizontal run. Used with outside vertical 90° angle fitting FROVRA2X2LYL to change level of a straight horizontal run. Includes split cover.     | (2 pcs.)<br>FBC2X2LYL | Yellow |

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors, replace YL (Yellow) with BL (Black).

## 2x2 FiberRunner™ System Spillouts

- Spill-overs allow safe transition from horizontal to vertical runs
- 2 inch bend radius control
- Transition to channel, slotted channel, and corrugated loom tubing



| Part Number                                      | Description   | Couplers Required     | Color  |
|--|---|-----------------------|--------|
| <b>2x2 Vertical Tee Spillout</b>                 |   |                       |        |
| <b>BEST SELLER</b><br>FVTHD2X2LYL                | Attaches to a 2x2 channel to create a 90° vertical drop from a horizontal run. Hinged door included. Accepts channel cover in conjunction with the channel. | (2 pcs.)<br>FBC2X2LYL | Yellow |
| <b>3-Sided BRC Trumpet Spillout for 2x2 Exit</b> |   |                       |        |
| FTR2X2LYL  | Used to limit the bend radius of the cable to 2 inches (50.8mm) when exiting from a FiberRunner™ Spill-Over FRSPLYL.  | (1 pc.)<br>FBC2X2LYL  | Yellow |

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors, replace YL (Yellow) with BL (Black).

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### 2x2 FiberRunner™ System Spillouts (continued)



FIDT2X2LYL



FRSPJ2X2LYL

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| Part Number | Part Description | Couplers Required | Color |
|-------------|------------------|-------------------|-------|
|-------------|------------------|-------------------|-------|

#### 1-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing

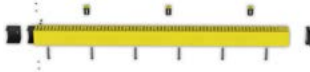
|            |  |                      |        |
|------------|--|----------------------|--------|
| FIDT2X2LYL | Used to route cable into three separate 1.5" (3.8mm) diameter split corrugated tubing. | (1 pc.)<br>FBC2X2LYL | Yellow |
|------------|--|----------------------|--------|

#### Spill-Over Junction Fitting with 2x2 Exit

|             |   |                      |        |
|-------------|---|----------------------|--------|
| FRSPJ2X2LYL | Assembles onto a 2x2, 4x4, 6x4, 12x4, or 24x4 FiberRunner™ Channel, spilling over the side into a 2x2 vertical exit. Requires a coupler to attach channels and fittings to the vertical exit. | (1 pc.)<br>FBC2X2LYL | Yellow |
|-------------|---|----------------------|--------|

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors, replace YL (Yellow) with BL (Black).

### FiberRunner™ Brackets and Accessories



FRHD4KTYL



FZBA1.5X4

| Part Number | Description | For Threaded Rod Size In. | Color |
|-------------|-------------|---------------------------|-------|
|-------------|-------------|---------------------------|-------|

#### 4x4 Hinged Duct Vertical Cable Manager Kit

|           |   |   |        |
|-----------|---|---|--------|
| FRHD4KTYL | Provides secure, accessible route for cables spilling out from vertical tee to rack mounted equipment. Kit includes 6' of 4x4 capacity hinged duct, 6' of 4x4 hinged duct cover, one end cap for 4x4 hinged duct, three FZBA1.5X4 adjustable "Z" brackets, an adapter fitting, six WR4-C wire retainers and all required mounting hardware. Attaches directly to 6x4 and 4x4 vertical tee exits or FRLPR64 low profile reducer. | - | Yellow |
|-----------|---|---|--------|

#### Low Profile Reducer 4x4 Reducer Fitting with 2x2 Exit

|            |  |   |        |
|------------|--|---|--------|
| FRLPR42LYL | Assembled into the 6x4 or 4x4 vertical tee allowing transition to a 2x2 channel with minimal space required. | - | Yellow |
|------------|--|---|--------|

#### 1-Port Spillout Side Exit to 1.5 Inch (38mm) Inside Diameter Corrugated Tubing

|             |  |   |        |
|-------------|--|---|--------|
| FR1.5IDELYL | Used to route cable into 1.5" (38mm) diameter split corrugated tubing directly through a hole cut in the side wall of the 4x4, 6x4, and 12x4 channels. | - | Yellow |
|-------------|--|---|--------|

#### Adjustable "Z" Bracket

|                                 |   |   |       |
|---------------------------------|---|---|-------|
| <b>BEST SELLER</b><br>FZBA1.5X4 | Bracket used to offset a system from the mounting surface, adjustable from 1.5" (38mm) to 4 inches (101mm). | - | Black |
|---------------------------------|---|---|-------|

#### Quick Mount Clips

|           |   |     |       |
|-----------|---|-----|-------|
| FRQMC24-X | Bracket mounting clips to accommodate runs for various FiberRunner™ Channels. Use on 12x4 FiberRunner™ QuikLock™ Brackets to accommodate dual runs of 6x4 or 4x4 FiberRunner™ Channels. | 0.5 | Black |
|-----------|---|-----|-------|

Part numbers reflect products made of PVC. For products made of PC/ABS, please contact Customer Service. For other colors, replace YL (Yellow) with BL (Black).

## FiberRunner™ Brackets and Accessories (continued)



FLRB



FRTBWG18BL

| Part Number  | Description  | For Threaded Rod Size In. | Color |
|--|--|---------------------------|-------|
| <b>Existing Threaded Rod Brackets</b>  |  |                           |       |
| FTRBE12  | Used for supporting the 2x2 and 4x4 systems from existing threaded rod installations.  | 0.5                       | -     |
| <b>Ladder Rack Bracket</b>   |  |                           |       |
| FLRB   | Used to support the 2x2 and 4x4 systems attaching directly to any 0.375" (9.5mm) x 1.5" (38.1mm) or 0.375" (9.5mm) x 2" (50.8mm) ladder rack rail. No threaded rod required.   | -                         | -     |
| <b>4-Post Rack Bracket</b>   |  |                           |       |
| FR4PRB58   | Used to support 12x4, 6x4, and 4x4 systems attaching to the top of the 19" wide version of the Panduit R4P 4-post rack.  | 0.625                     | Black |
| <b>Two-Piece Ladder Rack Bracket for Attaching Threaded Rod to 1.5 inches - 2 inches Ladder Rack</b> |  |                           |       |
| F2PCLB12   | Two-piece bracket attaches to 0.375" (9.5mm) x 1.5" (38.1mm) or 0.625" (9.5mm) x 2" (50.8mm) ladder rack rail.   | 0.5                       | Black |
| F2PCLB58   |  | 0.625                     |       |
| <b>New Threaded Rod Brackets</b>   |  |                           |       |
| FTRBN12  | Used for supporting the 2x2 and 4x4 systems from new threaded rod installations.   | 0.5                       | -     |
| <b>Mounting Brackets</b>   |  |                           |       |
| FRTBWG12BL   | Threaded rod trapeze bracket used to support FiberRunner™ 4x4 and 6x4 Channels above or below the Wyr-Grid™ 12" Pathway using the same 0.5" or 12mm threaded rod used to support the WGTB12BL bracket. Hardware for attaching to threaded rod sold separately. | 0.5                       | Black |
| FRTBWG18BL   | Threaded rod trapeze bracket used to support FiberRunner™ 4x4 and 6x4 Channels above or below the Wyr-Grid™ 12" Pathway using the same 0.5" or 12mm threaded rod used to support the WGTB12BL bracket. Hardware for attaching to threaded rod sold separately. |                           |       |
| FRTBWG24BL   | Threaded rod trapeze bracket used to support FiberRunner™ 4x4 and 6x4 Channels above or below the Wyr-Grid™ 12" Pathway using the same 0.5" or 12mm threaded rod used to support the WGTB12BL bracket. Hardware for attaching to threaded rod sold separately. |                           |       |

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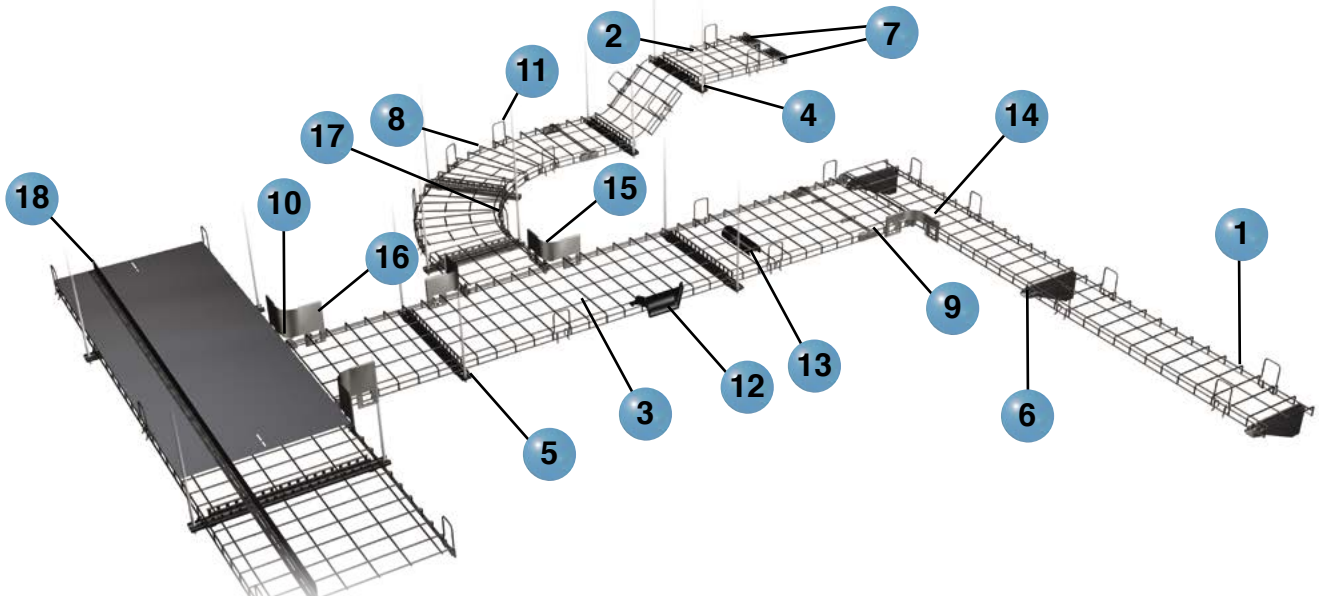
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### Wyr-Grid™ Overhead Cable Tray Routing System



#### Pathway Sections

8" Width: WG8BL10 (not shown)

- 1 12" Width: WG12BL10
- 2 18" Width: WG18BL10
- 3 24" Width: WG24BL10



#### Snap-On Sidewalls

2" Sidewall: WGSW2BL (not shown)

- 11 4" Sidewall: WGSW4BL
- 6" Sidewall: WGSW6BL



#### Waterfalls

- 12 4" Side Waterfall: WGSWF4BL
- 13 Bottom Waterfall: WGBTMWFBL



#### Mounting Brackets

##### Trapeze Brackets

8" Wide: WGTBS8BL (not shown)  
12" Wide: WGTBS12BL (not shown)

- 4 18" Wide: WGTBS18BL
- 5 24" Wide: WGTBS24BL



#### Intersection Bend Radius Control

- 14 2" High Sidewall: WGIBRC2BL
- 15 4" High Sidewall: WGIBRC4BL
- 16 6" High Sidewall: WGIBRC6BL



#### Accessories

- 17 Hardware Kit: WGHRDWKTBL

#### Tray Liner

8" Tray Liner: WGTL8PG (not shown)  
12" Tray Liner: WGTL12PG (not shown)  
18" Tray Liner: WGTL18PG (not shown)  
24" Tray Liner: WGTL24PG (not shown)



#### Cantilever Brackets

- 6 12" Wide: WGCB12BL
- 18" Wide: WGCB18BL (not shown)
- 24" Wide: WGCB24BL (not shown)



#### Wall Mount Termination Brackets

8" Wide: WGWMTB8BL (not shown)  
12" Wide: WGWMTB12BL (not shown)

- 7 18" – 30" Wide: WGWMTB1830BL



#### Splice Connectors

- 8 For 8", 12", and 18" Widths: WGSPL1218BL
- 9 For 24" and 30" Widths: WGSPL2430BL
- 10 Intersection Splice: WGINTSPLBL



#### Divider Wall

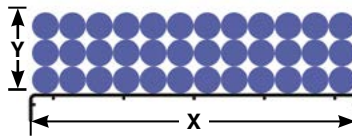
2" Divider Wall: WGDW2PG (not shown)  
4" Divider Wall: WGDW4PG  
6" Divider Wall: WGDW6PG (not shown)



Additional splice connectors are available. Refer to page J.34.

## Wyr-Grid™ Overhead Cable Tray Routing System

### Wire Fill for Wyr-Grid™ Overhead Cable Tray Routing System



| X In. | Y In. | Internal Area In <sup>2</sup> | Category 6A (SD) Diameter 6.1mm 0.240" | Category 6A Diameter 7.6mm 0.300" | Category 6 Diameter 6.1mm 0.240" | X In. | Y In. | Internal Area In <sup>2</sup> | Category 6A (SD) Diameter 6.1mm 0.240" | Category 6A Diameter 7.6mm 0.300" | Category 6 Diameter 6.1mm 0.240" |
|-------|-------|-------------------------------|--|-----------------------------------|----------------------------------|-------|-------|-------------------------------|--|-----------------------------------|----------------------------------|
| 12.2  | 2     | 24.3                          | 269                                    | 172                               | 269                              | 24.2  | 2     | 48.3                          | 534                                    | 342                               | 534                              |
|       | 4     | 48.7                          | 538                                    | 344                               | 538                              |       | 4     | 96.7                          | 1069                                   | 684                               | 1069                             |
|       | 6     | 73.0                          | 807                                    | 516                               | 807                              |       | 6     | 145.0                         | 1603                                   | 1026                              | 1603                             |
| 18.2  | 2     | 36.3                          | 401                                    | 257                               | 401                              | 30.2  | 2     | 60.3                          | 666                                    | 427                               | 666                              |
|       | 4     | 72.7                          | 804                                    | 514                               | 804                              |       | 4     | 120.7                         | 1334                                   | 854                               | 1334                             |
|       | 6     | 109.0                         | 1205                                   | 771                               | 1205                             |       | 6     | 181.0                         | 2000                                   | 1280                              | 2000                             |

"Y" equates to the height of the Wyr-Grid™ Sidewalls. The internal area defines the allowable fill capacity based on the Wyr-Grid™ Pathway width and sidewall height. The Wyr-Grid™ Pathway cable fill is based on NEC allowable fill of 50%. The above cable diameters represent the nominal Panduit cable diameter per performance level.

## Wyr-Grid™ Pathway Sections

- Pathways are provided in five widths: 8 inch (203mm): 12 inch (305mm), 18 inch (457mm), 24 inch (610mm), and 30 inch (762mm)
- Standard finishes are black powder coat
- Non-integral sidewalls minimize specification requirements



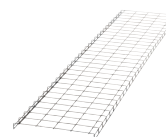
WG8BL10



WG12BL10



WG18BL10



WG24BL10

| Part Number                    | Description   |
|--------------------------------|---|
| <b>Low Profile "Z" Bracket</b> |   |
| <b>BEST SELLER</b><br>WG8BL10  | 8" Wide x 118.35" long pathway section used to carry cables horizontally throughout the system. Available in black only. Uses splice connector WGSP1218BL to connect straight sections and intersection splice WGINTSPLBL to connect pathways at intersection.  |
| <b>BEST SELLER</b><br>WG12BL10 | 12" Wide x 118.35" long pathway section used to carry cables horizontally throughout the system. Uses splice connector WGSP1218BL to connect straight sections and intersection splice WGINTSPLBL to connect pathways at intersection.                          |
| <b>BEST SELLER</b><br>WG18BL10 | 18" Wide x 118.35" long pathway section used to carry cables horizontally throughout the system. Available in black only. Uses splice connector WGSP1218BL to connect straight sections and intersection splice WGINTSPLBL to connect pathways at intersection. |
| <b>BEST SELLER</b><br>WG24BL10 | 24" Wide x 118.35" long pathway section used to carry cables horizontally throughout the system. Uses splice connector WGSP2430BL to connect straight sections and intersection splice WGINTSPLBL to connect pathways at intersection.                          |

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### Wyr-Grid™ Splice Connectors

- Integral bonding screw creates a mechanical electrical bond between cable tray pathway sections
- Standard finish is black powder coat
- Sold in pairs



WGSPL1218BL



WGINTSPLBL



WGESPL2430BL

| Part Number  | Description  |
|--------------|--|
| WGSPL1218BL  | Straight Splice connector quickly joins two (305mm) or 18" (457mm) wide Pathways together. Packaging contains 2 components needed to join two pathway sections.                |
| WGSPL2430BL  | Straight Splice connector quickly joins two 24" (610mm) or 30" (762mm) wide Pathways together. Packaging contains 4 components needed to join two pathway sections.            |
| WGINTSPLBL   | Intersection splice connector quickly joins Pathways at all intersections. Package contains 2 components needed to create one tee or right angle intersection.                 |
| WGESPL2430BL | Straight splice connector with clips join two 8" (203mm), 12" (30mm) or 18" (457mm) wide Pathways together. Package contains 2 components needed to join two pathway sections. |

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### Wyr-Grid™ Waterfalls

- Offered in two different configurations that attach to all pathway sections 8 inch (203mm), 18 inch (457mm), 24 inch (610mm) and 30 inch (762mm)
- Standard finish is black powder coat



WGBTMWFBL



WGSWF4BL

| Part Number                     | Description   |
|---------------------------------|---|
| <b>BEST SELLER</b><br>WGBTMWFBL | The bottom waterfall provides 1.38" (35mm) bend radius control for cables transitioning down into the racks or cabinets from within the Wyr-Grid™ Pathway. Standard finish is black powder coat.  |
| <b>BEST SELLER</b><br>WGSWF4BL  | The side waterfall provides 3" (76mm) bend radius control for cables transitioning down into the racks or cabinets from the side of the Wyr-Grid™ Pathway. Waterfall only offered in black color. |

## Wyr-Grid™ Support Brackets

- Offered in various widths to accommodate pathways 8 inch (203mm), 12 inch (305mm), 18 inch (457mm), 24 inch (610mm)
- Standard finish is black powder coat
- Integral quick-clip retention
- Accommodates 0.5 inch or 12mm threaded rod



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

### Wyr-Grid™ Trapeze Brackets

|                  |  |
|------------------|--|
| <b>WGTBS8BL</b>  | Used to support 8" (203mm) wide Wyr-Grid™ Pathway from the ceiling using a pair of 0.5" or 12mm threaded rod drops. Hardware for attaching to threaded rod sold separately.  |
| <b>WGTBS12BL</b> | Used to support 12" (305mm) wide Wyr-Grid™ Pathway from the ceiling using a pair of 0.5" or 12mm threaded rod drops. Hardware for attaching to threaded rod sold separately. |
| <b>WGTBS18BL</b> | Used to support 18" (457mm) wide Wyr-Grid™ Pathway from the ceiling using a pair of 0.5" or 12mm threaded rod drops. Hardware for attaching to threaded rod sold separately. |
| <b>WGTBS24BL</b> | Used to support 24" (610mm) wide Wyr-Grid™ Pathway from the ceiling using a pair of 0.5" or 12mm threaded rod drops. Hardware for attaching to threaded rod sold separately. |

### Wyr-Grid™ Cantilever Brackets

|                 |  |
|-----------------|--|
| <b>WGCB12BL</b> | Used to support the 12" (305mm) wide Wyr-Grid™ Pathway along a wall. Mounting hardware for attaching to wall not included. |
| <b>WGCB18BL</b> | Used to support the 18" (457mm) wide Wyr-Grid™ Pathway along a wall. Mounting hardware for attaching to wall not included. |
| <b>WGCB24BL</b> | Used to support the 24" (610mm) wide Wyr-Grid™ Pathway along a wall. Mounting hardware for attaching to wall not included. |

### Wyr-Grid™ Wall Mount Termination Brackets

|                     |  |
|---------------------|--|
| <b>WGWMTB8BL</b>    | Used to support the end of the 8" (203mm) Wyr-Grid™ Pathway against the wall. Mounting hardware for attaching to wall not included.  |
| <b>WGWMTB12BL</b>   | Used to support the end of the 12" (305mm) Wyr-Grid™ Pathway against the wall. Mounting hardware for attaching to wall not included.   |
| <b>WGWMTB1830BL</b> | Used to support the 24" (610mm) wide Wyr-Grid™ Pathway along a wall. Integral retaining clip secures the pathway to the bracket. Mounting hardware for attaching to wall not included. |
| <b>WGCB3EZ</b>      | Electro Zinc conduit bracket with openings.  |

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### Wyr-Grid™ Support Brackets (continued)

- Offered in various widths to accommodate pathways 12 inch (305mm), 18 inch (457mm), 24 inch (610mm), and 30 inch (762mm)
- Standard finish is black powder coat
- Integral quick-clip retention
- Accommodates 0.5 inch or 12mm threaded rod



WG2PRB12BL



WG2PRB24BL



WGR4PK30BL



WGCMK1070BL

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

#### Wyr-Grid™ 2-Post Channel Trapeze Rack Mount Brackets

|            |  |
|------------|--|
| WG2PRB12BL | Used to support the 12" (305mm) wide Wyr-Grid™ Pathway directly to standard 3" or 6" EIA channel racks. Brackets can be installed parallel or perpendicular. |
| WG2PRB18BL | Used to support the 18" (457mm) wide Wyr-Grid™ Pathway directly to standard 3" or 6" EIA channel racks. Brackets can be installed parallel or perpendicular. |
| WG2PRB24BL | Used to support the 24" (610mm) wide Wyr-Grid™ Pathway directly to standard 3" or 6" EIA channel racks. Brackets can be installed parallel or perpendicular. |

#### Wyr-Grid™ 4-Post Channel Trapeze Rack Mount Bracket

|            |  |
|------------|--|
| WGR4PK30BL | Direct mounted strut bracket for use on a 4-post rack. |
|------------|--|

#### Wyr-Grid™ Cabinet Direct Mounting Brackets

|             |   |
|-------------|---|
| WGCMB1200BL | Direct mounted strut bracket for use on a Net-Access™ N-Type or S-Type 1200mm Cabinet (not elevated). |
| WGCMB1070BL | Direct mounted strut bracket for use on a Net-Access™ N-Type or S-Type 1070mm Cabinet (not elevated). |

#### Wyr-Grid™ Cabinet Mounting Brackets

|             |   |
|-------------|---|
| WGCMK1200BL | Elevated trapeze bracket for use on a Net-Access™ N-Type or S-Type 1200mm Cabinet (elevated). |
| WGCMK1070BL | Elevated trapeze bracket for use on a Net-Access™ N-Type or S-Type 1070mm Cabinet (elevated). |

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## Wyr-Grid™ Mounting Brackets for FiberRunner™ System

- Offered in various widths to accommodate pathways 12 inch (305mm), 18 inch (457mm), 24 inch (610mm), and 30 inch (762mm)
- Standard finish is black powder coat
- Integral quick-clip retention
- Accommodates 1/2 inch or 12mm threaded rod



| Part Number  | Description   |
|--|---|
| <b>Wyr-Grid™ Mounting Brackets for FiberRunner™ System</b> |   |
| <b>WG12FRTBBL</b>  | Wyr-Grid™ Pathway 12" (305mm) width FiberRunner™ QuikLock™ Trapeze Bracket. Attaches to the Wyr-Grid™ 12" (305mm) wide Pathway to support a secondary FiberRunner™ 4x4 or 6x4 Channel above the Wyr-Grid™ Pathway. Adjustable 6 0.563" to 9.875" over the top surface of the Wyr-Grid™ Pathway. |
| <b>WG18FRTBBL</b>  | Wyr-Grid™ Pathway 18" (457mm) width FiberRunner™ QuikLock™ Trapeze Bracket. Attaches to the Wyr-Grid™ 18" (457mm) wide Pathway to support a secondary FiberRunner™ 4x4 or 6x4 Channel above the Wyr-Grid™ Pathway. Adjustable 6 0.563" to 9.875" over the top surface of the Wyr-Grid™ Pathway. |
| <b>WG24FRTBBL</b>  | Wyr-Grid™ Pathway 24" (610mm) width FiberRunner™ QuikLock™ Trapeze Bracket. Attaches to the Wyr-Grid™ 24" (610mm) wide Pathway to support a secondary FiberRunner™ 4x4 or 6x4 Channel above the Wyr-Grid™ Pathway. Adjustable 6 0.563" to 9.875" over the top surface of the Wyr-Grid™ Pathway. |
| <b>Wyr-Grid™ Mounting Bracket for Strut</b>                |   |
| <b>WGSKBL</b>  | Black powder coated bracket strut mounting clip assembly allows Wyr-Grid™ Pathway to be attached directly to standard 1.625" wide strut structures. Contains support member, two clips and all hardware for assembly.   |

## Wyr-Grid™ Accessories

- Offered in three different heights: 2 inch (50mm), 4 inch (102mm), and 6 inch (152mm)
- Standard finish is black powder coat



| Part Number  | Description   |
|--|---|
| <b>Wyr-Grid™ Pathway Snap-On Sidewalls</b>                 |   |
| <b>WGSW2BL</b>   | Wyr-Grid™ 2" (50mm) high Snap-On Sidewalls can be attached anywhere along the pathway where needed to retain cables.  |
| <b>WGSW4BL</b>   | Wyr-Grid™ 4" (102mm) high Snap-On Sidewalls can be attached anywhere along the pathway where needed to retain cables. |
| <b>WGSW6BL</b>   | Wyr-Grid™ 6" (152mm) high Snap-On Sidewalls can be attached anywhere along the pathway where needed to retain cables. |
| <b>Wyr-Grid™ Pathway Intersection Bend Radius Controls</b> |   |
| Part Number  | Description   |
| <b>WGIBRC2BL</b>   | Wyr-Grid™ Intersection Bend Radius 2", Black.   |
| <b>WGIBRC4BL</b>   | Wyr-Grid™ Intersection Bend Radius 4", Black.   |
| <b>WGIBRC6BL</b>   | Wyr-Grid™ Intersection Bend Radius 6", Black.   |

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### Wyr-Grid™ Tray Liners



WGTL18PG

| Part Number | Width In. | Color |
|-------------|-----------|-------|
| WGTL8PG     | 8         | Black |
| WGTL12PG    | 12        |       |
| WGTL18PG    | 18        |       |
| WGTL24PG    | 24        |       |

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### Divider Wall

- Provides the capability to have lane separations in the pathway
- Comes in pairs to fill the length of the pathway



WGDW2PG

| Part Number | Material             | Height In. | Length In. | Color |
|-------------|----------------------|------------|------------|-------|
| WGDW2PG     | Pre-galvanized metal | 2          | 63         | Gray  |
| WGDW4PG     |                      | 4          |            |       |
| WGDW6PG     |                      | 6          |            |       |

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### Wyr-Grid™ Hardware



WGHRDWKTBL

| Part Number | Description   | Color |
|-------------|---|-------|
| WGHRDWKTBL  | The hardware kit is used when field fabricating a right angle, allowing large radii to be created by cutting the pathway, bending it, and securing it into a right angle. 12" (305mm) width requires 6 pieces to create a 15.8" radius. 18" (457mm) width requires 9 pieces to create a 24.4" radius. 24" (610mm) width requires 12 pieces to create a 33.4" radius. 30" (762mm) width requires 15 pieces to create a 41.5" radius. | Black |

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### Wyr-Grid™ Tool



WGCT-M

| Part Number | Description  |
|-------------|--|
| WGCT-M      | Manual cutting tool for cutting Wyr-Grid™ Cable Trays. Weight: 5.4 lbs. (2.45 kg). |

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### Cable Cleat Products for Short Circuit Protection

Panduit Cable Cleat Self-Locking Cable Ties and the MS75 Metal Strapping System represent Panduit's cable cleat offering for robust cable management and short circuit protection up to 156kA. Available in a variety of sizes, these solutions ensure cables remain contained in the event of a short circuit occurrence, minimizing disruption and damage to personnel and property. Panduit's Cable Cleat Products for short circuit protection are designed to perform in a wide range of harsh environments, including industries such as Oil and Gas, Power Generation, Mining, and Shipbuilding.

- Up to 2X faster installation versus competitive cable cleats
- Simple and intuitive design leads to increased productivity
- Up to 50% reduction in material cost
- Compatible with a variety of ladder racks and cables

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#### MS75 Technical Specifications and Testing Results

|  |   |
|--|---|
| <b>Design Specification</b>                  | IEC 61914:2015  |
| <b>Classification</b>                        | 6.1.3 Composite SDSS – Standard Duty Stainless Steel                            |
| <b>Temperature for permanent application</b> | -60°C to +60°C<br>IEC 61914:2015 clause 6.2                                     |
| <b>Needle Flame Test</b>                     | PASS<br>IEC 61914:2015 clause 10.1  |
| <b>Lateral Load Test</b>                     | PASS<br>IEC 61914:2015 clause 9.3   |
| <b>Axial Load Test</b>                       | PASS<br>IEC 61914:2015 clause 9.4   |
| <b>Impact Resistance</b>                     | PASS – Very Heavy<br>IEC 61914:2015 clause 6.3, 6.3.5, 9.2                      |
| <b>Material</b>                              | 316/316L Stainless Steel<br>Cushion sleeve is Low Smoke Halogen Free (LSHF) TPE |

#### MLT Technical Specifications and Testing Results

|  |   |
|--|---|
| <b>Design Specification</b>                  | IEC 61914:2015  |
| <b>Classification</b>                        | 6.1.3 Composite SDSS – Standard Duty Stainless Steel                            |
| <b>Temperature for permanent application</b> | -60°C to +60°C<br>IEC 61914:2015 clause 6.2                                     |
| <b>Needle Flame Test</b>                     | PASS<br>IEC 61914:2015 clause 10.1  |
| <b>Lateral Load Test</b>                     | PASS<br>IEC 61914:2015 clause 9.3   |
| <b>Axial Load Test</b>                       | PASS<br>IEC 61914:2015 clause 9.4   |
| <b>Impact Resistance</b>                     | PASS – Very Heavy<br>IEC 61914:2015 clause 6.3, 6.3.5, 9.2                      |
| <b>Material</b>                              | 316/316L Stainless Steel<br>Cushion sleeve is Low Smoke Halogen Free (LSHF) TPE |



*Continued on next page*

## Cable Cleat Products for Short Circuit Protection

To provide optimum performance, the use of cushion sleeve is recommended, and may be required in some applications.

### Type 316, Self-Locking Cable Ties – MLT and MS75 Strapping Series



| Part Number                 | Width (mm) | Max Peak Current (kA) | Cable Tie Spacing (mm) | Tested Cable Outer Diameter (mm) |
|-----------------------------|------------|-----------------------|------------------------|----------------------------------|
| MLT#DEH15-Q316              | 12.7       | 45                    | 300                    | 27                               |
| MLT#DSH-Q316                | 15.9       | 70                    |                        | 39                               |
| MS#W75T30-Q6 (single loop)  | 19.1       | 85                    |                        | 40                               |
| MS#W75T30-Q6 (double loop)  |            | 156                   |                        | 43                               |
| MS#W75T30-Q6* (double loop) |            | 142                   |                        | 38                               |

# represents maximum bundle diameter in inches  
 • MLT#DEH15-Q316 and MLT#DSH-Q316: 4.0, 6.0 and 8.0  
 • MS#W75T30-Q6 (single loop): 4.0, 6.0, 8.0, 10.0 and 12.0  
 • MS#W75T30-Q6 (double loop): 2.0, 3.0, 4.0, 5.0 and 6.0  
 When double looped, same part numbers are used as for single loop, but maximum bundle diameter is reduced in half.  
 \*MS75 is compliant with IEC 61914:2015 Section 6.4.5 (Resistant to electromechanical forces, withstanding more than one short circuit event).

### Metal Uniclip Brackets

- Allows Panduit stainless steel ties and straps to be installed on any style or design of cable tray; slotted or un-slotted
- Eliminate consideration of diagonal installations
- High resistance to lateral and axial movement



| Part Number | Material                 | Used with Pan-Steel™ Ties                                    | Description                     |
|-------------|--------------------------|--|---------------------------------|
| UCSQ1-VC    | Galvanized Steel         | MLTS/LH/H/EH/ EH15/SH, MLTC/H, MLTFC/S/LH/H/ EH/SH, or MSW75 | Metal Rung Bracket – Strut Type |
| UCRND1-VC   |                          |  | Metal Rung Bracket – Round      |
| UCIB1-VC    |                          |  | Metal Rung Bracket – I-Beam     |
| UCTH1-VC    |                          |  | Metal Rung Bracket – Top Hat    |
| UCSQ1-V316  | Stainless Steel Type 316 |  | Metal Rung Bracket – Strut Type |
| UCRND1-V316 |                          |  | Metal Rung Bracket – Round      |
| UCIB1-V316  |                          |  | Metal Rung Bracket – I-Beam     |
| UCTH1-V316  |                          |  | Metal Rung Bracket – Top Hat    |

### PCS Cushion Sleeve



| Part Number | Material   | Used with Pan-Steel™ Ties        | Description  |
|-------------|--|----------------------------------|--|
| PCSLSH-B-CR | TPE Low Smoke, Halogen-Free, and Flame-Resistant | MLTEH/SH Ties/ Banding/Strapping | Cushion Sleeving, Extra-Heavy or Super-Heavy, 100' (30.5m) Long x 1.05" (26.8 mm) Wide |

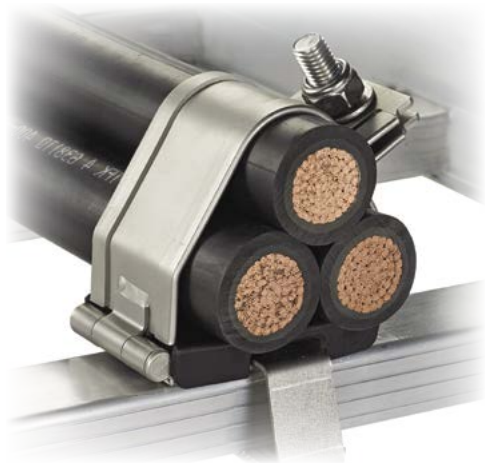


### Cable Cleat Products for Short Circuit Protection

#### Stainless Steel Trefoil Cleats

CCSSTR series is the newest addition to Panduit’s cable cleat offering for robust cable management and short circuit protection. Available in a variety of sizes, these solutions ensure cables remain contained in the event of a short circuit occurrence, minimizing disruption and damage to personnel and property. Panduit’s Cable Cleat Products for short circuit protection are designed to perform in a wide range of harsh environments, including industries such as Oil and Gas, Power Generation, Mining, and Shipbuilding.

- Easy Installation (Intuitive design for single tool tightening)
- Removeable Spacer (Range taking up to 7mm)
- Bracket Slot (Providing options for installer)
- 316L Stainless Steel (Suitable for harsh environments)
- IEC 61914:2015 Tested (Independent 3rd Party Lab)



#### Technical Specifications and Testing Results

|  |  |
|--|--|
| <b>Design Specification</b>                  | IEC 61914:2015   |
| <b>Classification</b>                        | Composite SDSS - Standard Duty Stainless Steel IEC 61914:2015 Clause 6.1.3 |
| <b>Temperature for permanent application</b> | -40°C to +60°C IEC 61914:2015 clause 6.2                                   |
| <b>Needle Flame Test</b>                     | PASS IEC 61914:2015 clause 10.1  |
| <b>Lateral Load Test</b>                     | PASS IEC 61914:2015 clause 9.3   |
| <b>Axial Load Test</b>                       | PASS IEC 61914:2015 clause 9.4   |
| <b>Impact Resistance</b>                     | PASS – Very Heavy IEC 61914:2015 clause 6.3, 6.3.5, 9.2                    |
| <b>Material</b>                              | 316/316L Stainless steel<br>Spacer is Low Smoke Halogen Free (LSHF)        |

#### Short Circuit Testing Summary<sup>1</sup>

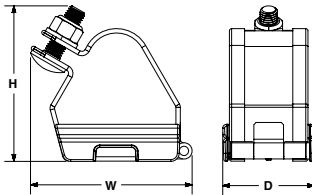
| Trefoil Formation<br>38 mm Cable Diameter                | Trefoil Formation<br>38 mm Cable Diameter                 | Trefoil Formation<br>35 mm Cable Diameter                | Trefoil Formation<br>38 mm Cable Diameter                 |
|--|---|--|---|
| One Short Circuit Event<br>(Clause 6.4.4) 300 mm spacing | Two Short Circuit Events<br>(Clause 6.4.5) 300 mm spacing | One Short Circuit Event<br>(Clause 6.4.4) 600 mm spacing | Two Short Circuit Events<br>(Clause 6.4.5) 600 mm spacing |
| 0.1 sec  | 0.1 sec   | 0.1 sec  | 0.1 sec   |
| 172 kA Peak  | 162 kA Peak   | 143 kA Peak  | 125 kA Peak   |
| 8926 lbs force (39.77 kN)                                | 7919 lbs force (37.4 kN)                                  | 13398 lbs force (59.5 kN)                                | 9429 lbs force (41.9 kN)                                  |

<sup>1</sup>Test compliance to IEC 61914:2015 utilizing KEMA facility; Independent, ISO 17025 accredited testing, inspection, and certification services (IEEE, IEC, UL, and ANSI) for electric power equipment.

*Continued on next page*

## Cable Cleat Products for Short Circuit Protection

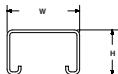
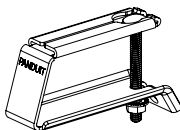
### Stainless Steel Trefoil Cleats



| Part Number | Cable Range (mm) |          | Dimensions (mm) |     |    |        | Mounting Holes | Weight (g) |
|-------------|------------------|----------|-----------------|-----|----|--------|----------------|------------|
|             | Min Dia.         | Max Dia. | H               | W   | D  |        |                |            |
| CCSSTR1822  | 18               | 22       | 83              | 79  | 63 | 1 x M8 | 392            |            |
| CCSSTR2025  | 20               | 25       | 87              | 86  | 63 |        | 417            |            |
| CCSSTR2328  | 23               | 28       | 91              | 90  | 63 |        | 439            |            |
| CCSSTR2632  | 26               | 32       | 95              | 97  | 63 |        | 480            |            |
| CCSSTR3036  | 30               | 36       | 100             | 105 | 63 |        | 518            |            |
| CCSSTR3440  | 34               | 40       | 108             | 111 | 63 |        | 547            |            |
| CCSSTR3844  | 38               | 44       | 108             | 119 | 63 |        | 581            |            |
| CCSSTR4248  | 42               | 48       | 112             | 126 | 63 |        | 613            |            |
| CCSSTR4652  | 46               | 52       | 117             | 133 | 63 |        | 647            |            |
| CCSSTR5057  | 50               | 57       | 123             | 143 | 63 |        | 686            |            |
| CCSSTR5461  | 54               | 61       | 130             | 150 | 63 |        | 720            |            |
| CCSSTR5865  | 58               | 65       | 138             | 157 | 63 |        | 754            |            |
| CCSSTR6269  | 62               | 69       | 145             | 165 | 63 |        | 782            |            |
| CCSSTR6673  | 66               | 73       | 153             | 173 | 63 |        | 822            |            |
| CCSSTR7077  | 70               | 77       | 161             | 178 | 63 | 856    |                |            |

Note: Alternative fault levels, fixing spacings, and custom alternatives can be offered. Please contact our Sales Team for further information.

### Cable Cleat Bracket



| Part Number | Description                             | Height | Length |
|-------------|---|--------|--------|
| CBH15L50-V6 | Metal Rung Bracket (with closure bolt). | 15 mm  | 50 mm  |
| CBH20L50-V6 | Metal Rung Bracket (with closure bolt). | 20 mm  |        |
| CBH25L50-V6 | Metal Rung Bracket (with closure bolt). | 25 mm  |        |
| CBH30L50-V6 | Metal Rung Bracket (with closure bolt). | 30 mm  |        |

Note: Alternative sizes available upon request. Please contact our Sales Team for further information.

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### Installation Tools

- The manually-operated BT2HTI and BT75SDT tools are used to install Panduit's Buckle Strap Cleats
- The BT2HTI is a ratchet-style installation tool, allowing for high tension with minimal effort
- The BT75SDT tensions the strap using a screw drive mechanism, providing high tension while reducing operator fatigue
- Both tools use a lever to cut the strap so there is an appropriate length remaining to fold over and secure with the buckle tab.
- The BT2HTI is more suitable for higher volume installations, and the BT75SDT for lower volume
- The battery-operated PBTMT and manually-operated, ratchet-style RT2HT tools are used to install Panduit's Locking Strap Cleats.
- Both tools tension the strap through its locking head using a gripping tooth mechanism and then cut the end flush, eliminating any sharp edges.
- The PBTMT is more suitable for higher volume installations, and the RT2HT for lower volume
- A side entry slot allows for easy strap insertion, streamlining installation



BT2HTI



BT75SDT



PBTMT/E



RT2HT

| Part Number | Description  | Length |       | Width |      | Used With                           | Std Pkg. Qty. |
|-------------|--|--------|-------|-------|------|-------------------------------------|---------------|
|             |  | In.    | mm    | In.   | mm   |                                     |               |
| BT2HTI      | Installation tool for use with MS75 buckles.   | 6.94   | 176   | 7.64  | 194  | Stainless Steel Buckle Strap Cleat  | 1             |
| BT75SDT     | Screw drive tension mechanism provides high tension with minimal effort, reducing operator fatigue; Heavy duty construction offers a longer service life; Strapping side entry allows quick side entry of the strap into tool to speed installation. | 15     | 381   | 8     | 203  |                                     | 1             |
| PBTMT/E     | Battery powered installation tool, for use with Pan-Steel™ Heavy, Extra-heavy, and Super-Heavy, Cross Section MLT Style Ties, and MLTD Double Wrapped Style Ties, 2 –12 volt lithium-ion batteries and 115 volt, 60 Hz charger included.             | 10.33  | 262.4 | 3.17  | 80.5 | Stainless Steel Locking Strap Cleat | 1             |
| RT2HT       | Hand Operated Tool for use with Extra-Heavy and Super-Heavy Cross Section Pan-Steel™ Type MLT Ties.  | 7.1    | 180   | 4.05  | 103  |                                     | 1             |

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## Cleat kAlculator™ App

- Helps engineers in specifying the correct cleat and spacing
- Users can input information such as cable layout, cable diameter and peak fault level
- Based upon the results of independent laboratory short circuit testing the Cleat kAlculator™ app will suggest a cleat type and recommend the correct cleat spacing
- If there is more than one option to match the enquiry the app will offer a choice and the user can assess the benefits of each option.
- Results can also be saved on the device and emailed
- Available in the iOS and Android



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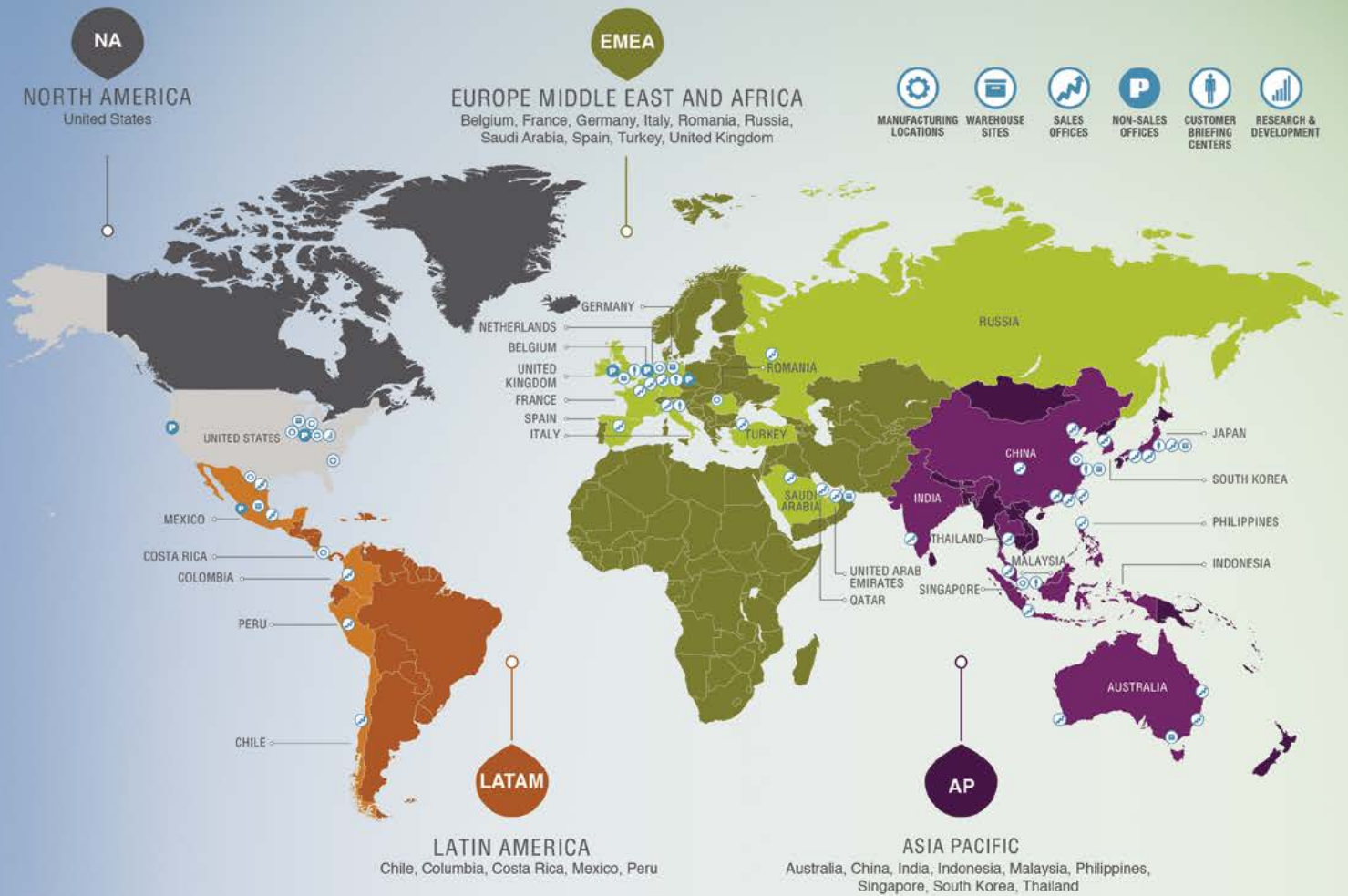
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