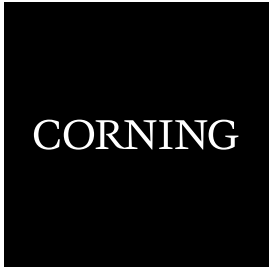


EDGE™ Solutions



EDGE™ Solutions for Enterprise Data Centers and Storage Area Networks

Corning EDGE™ solutions create a fiber optic tip-to-tip solution for data centers and storage area networks (SANs) consisting of housings, modules, panels, trunks, harnesses, and jumpers.



EDGE HD Solutions | Photo MM191

EDGE™ Solutions

Awards

The DCS awards are designed to reward the product designers, manufacturers, suppliers, and providers operating in data center area and recognize the achievements of the vendors and their business partners. The winners were selected by public vote from the installation, distribution, consultant, and end user communities from around the world.



EDGE™ Solutions

EDGE™ Solutions Introduction

Data center operators have an exhaustive list of desirable parameters they employ to ensure the smooth and efficient operation of their facilities, and here at Corning, we strive to exceed their expectations. We interviewed over 3,000 operators and the outcome remained the same – the infrastructure must be reliable, high-quality, flexible, manageable, scalable, and visible to support a 24/7 year-round operation without question.

Corning award-winning EDGE™ solutions are high-density preterminated optical cabling solutions that simplify installation and improve performance in the data center environment. EDGE solutions provide increased system density when compared to traditional preterminated systems and offer the highest port density in the market. Corning® ClearCurve® bend-optimized optical fiber is the core element ensuring reliability when designing custom-engineered components thanks to its significant reduction in macrobend loss even in the most challenging bend scenarios. This technology enables Corning to provide significantly greater density across the range combined with simple design and integration for LAN and SAN areas within the data center, while the preterminated components allow for reduced installation time and faster moves, adds, and changes (MACs).

Corning factory-terminated solutions provide improved system performance, ensure component compatibility, and yield consistent high quality. EDGE solutions consist of an extensive range of housings, trunks, modules, adapter panels, harnesses, jumpers, and accessories for extended flexibility.

The universally wired modular system components provide simplistic management for quick-and-easy networking MACs with none of the polarity concerns associated with special polarity-compensating components.

Deployment of a scalable optical connectivity solution allows an infrastructure to meet the requirements for current and future data rates. Scalability enables not only the physical expansion of the data center with respect to additional servers, switches, or storage devices, but also flexibility to the infrastructure to support a migration path for increasing data rates. As technology evolves and standards are completed to define data rates such as 40/100G Ethernet, Fibre Channel (32G and beyond), and InfiniBand (40G and beyond), the cabling infrastructures installed today must provide scalability to accommodate the need for more bandwidth in support of future applications.

Finally, infrastructure performance management is a method of monitoring traffic being transmitted and received along a link in a network providing real-time visibility. This can be done actively via electronic devices that replicate (also called mirroring or spanning) the link's data and sends it to the monitoring device, or it can be done using passive optical taps, or port taps, that simply transmit all of the data, sending it simultaneously to both its intended recipient and to the monitoring device. The monitoring device filters the data and sends it to various software tools for analytics, where it is then sent on to application-layer software for use by network administrators. Please refer to the tap module section for further information.

All EDGE Solutions products, with the exception of TAP Modules and 24F MTP single-mode assemblies are manufactured with Corning® CleanAdvantage™ technology, a new cleaning process implemented at the factory that uses residue-free cleaning fluids. Corning's proprietary nozzle design enables a focused and directed spray to the end face, virtually cleaning the entire ferrule. All CleanAdvantage products are also shipped with optimized caps engineered to maintain the end face cleanliness until the first mating connection. CleanAdvantage eliminates the need for scoping and cleaning prior to the initial field connection, reducing installation time and cost.

EDGE™ Solutions

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EDGE™ Solutions

Features and Benefits

Removeable covers on the 1U and 2U Housings

Provide easier access to modules and panels

EDGE™ reverse polarity uniboot jumpers

Enables quick-and-easy polarity management

New mounting system and improved mounting brackets

Allows for one-person installation and depth adjustment in the rack

Bracket option for 23-in racks

Offers the ultimate design flexibility

Snap-in strain-relief clips

Provides easier cable management

MTP® PRO connectors on harnesses and jumpers

Allows for pinning and polarity changes in the field

MTP assemblies with reduced footprint and cable outside diameter

Reduces congestion in high-connectivity environment

Corning® ClearCurve® fiber creates smaller form-factor components for more rugged cabling

Reduces congestion within and between racks for improved airflow and less risk of downtime due to pinched or bent cables

Corning® CleanAdvantage™ technology and optimized caps

Eliminates the need for scoping and cleaning prior to initial field connection

EDGE Solutions

EDGE solutions are high-density preterminated optical cabling solutions offering industry-leading connector density. With unprecedented finger access, there is no need for additional tools enabling faster moves, adds, and changes (MACs).



EDGE Solutions
| Photo LAN2279

Specifications

| | Insertion Loss, Max. OM3/OM4/OM5 | OS2 |
|---------------|-------------------------------------|---------|
| LC Connector | 0.15 dB | 0.25 dB |
| MTP Connector | 0.35 dB | 0.75 dB |

MTP to LC Modules – Low Loss

| | Insertion Loss, Max. OM3/OM4/OM5 | OS2 |
|-----------------|-------------------------------------|--------|
| Component Value | 0.5 dB | 1.0 dB |

EDGE™ Solutions

Connected Mated Pair – Ultra-Low-Loss

| | Insertion Loss, Max. OM3/OM4/OM5 | OS2 |
|----------------|-------------------------------------|---------|
| LC Connector | 0.10 dB | 0.25 dB |
| MTP® Connector | 0.25 dB | 0.35 dB |

*All MTP connectors on trunks are manufactured to meet ultra-low-loss values

MTP to LC Modules/MTP to LC Harnesses – Ultra-Low-Loss

| | Insertion Loss, Max. OM3/OM4/OM5 | OS2 |
|-----------------|-------------------------------------|--------|
| Component Value | 0.35 dB | 0.6 dB |

Conversion Module/Conversion Harness

| | Insertion Loss, Max. OM4 |
|-----------------|-----------------------------|
| Component Value | 0.05 dB |

EDGE™ Solutions

EDGE™ HD Housing

EDGE™ HD housings are mountable in 19-in racks or cabinets and provide industry-leading high-density connectivity when combined with EDGE modules, panels, harnesses, trunks, and jumpers.

Sliding drawers

Allow unprecedented finger access, easier jumper/harness routing, and port identification

Quick mounting system

Enables one-person installation and depth adjustment of the housing in the rack

Integrated strain-relief plate can rotate 90-degrees

Makes it possible to install both EDGE solutions or Plug & Play™ system cable designs in your EDGE housings

Removable top covers on the 1U and 2U housings

Provides easier access to modules and panels

Total flexibility in the same HD housing

- Accepts EDGE universal modules
- Accepts EDGE conversion modules
- Accepts EDGE Tap modules
- Accepts EDGE 2x, 4x, and 6x MTP® adapter
- Accepts EDGE 6x LC duplex adapter panels

High-port concentration with LC duplex and MTP

Base-12 system

- 1U EDGE Housing EDGE-01U
 - 48x LC duplex ports (96 fiber)
 - 48x MTP ports (576 fiber)
- 1U EDGE Housing EDGE-01U-SP
 - 72x LC duplex ports (144 fiber)
 - 72x MTP ports (864 fiber)
- 2U EDGE Housing EDGE-02U
 - 144x LC duplex ports (288 fiber)
 - 144x MTP ports (1728 fiber)
- 4U EDGE Housing EDGE-04U
 - 288x LC duplex ports (576 fiber)
 - 288x MTP ports (3456 fiber)



EDGE-01U
| Photo LAN1693



EDGE-01U-SP
| Photo LAN 7370



EDGE-02U
| Photo LAN6656



EDGE-04U
| Photo LAN6680

| Part Number | Height | Dimensions (W x D x H) | Packaging Dimensions (W x D x H) | Shipping | Number of Panels per Housing |
|-------------|--------|--------------------------|----------------------------------|------------------|------------------------------|
| EDGE-01U | 1U | 432mm x 561mm x 44 mm | 565 mm x 657 mm x 171 mm | 9.3 kg (20.4 lb) | 8 |
| EDGE-01U-SP | 1U | 432mm x 561mm x 44 mm | 565 mm x 646 mm x 171 mm | 8.2 kg (18 lb) | 12 |
| EDGE-02U | 2U | 432 mm x 561 mm x 88 mm | 565 mm x 660 mm x 216 mm | 10.9 kg (24 lb) | 24 |
| EDGE-04U | 4U | 432 mm x 561 mm x 177 mm | 565 mm x 660 mm x 305 mm | 16.8 kg (37 lb) | 48 |

Notes:

- 1) When rear strain-relief plate is removed from part number EDGE-01U-SP, product depth reduces to 14.9 in.
- 2) EDGE-01U has sliding inner assembly. EDGE-01U-SP does not have sliding inner assembly.

EDGE™ Solutions

EDGE™ FX Housing

EDGE™ FX housings are available in 1U, 2U, and 4U sizes that mount into 19-in racks or cabinets as well as two other housings that can mount in the floor. Combine these housings with the EDGE modules, panels, trunks, harnesses, and jumpers to experience an industry-leading solution. The reduced depth of the rack-mount housings allow for the back-to-back installation in 4-post racks or cabinets as well as third-party floor boxes.



EDGE-01U-EMOD
| Photo LAN4821



EDGE-01U-FP
| Photo LAN2656



EDGE-02U-FP
| Photo REN1610



EDGE-04U-FP
| Photo REN1575



EDGE-SMH
| Photo LAN2681



EDGE-FZB-04U
| Photo LAN1868

| Part Number | Height Unit | Dimensions (W x D x H) | Packaging Dimensions (W x D x H) | Shipping Weight | Number of Panels per Housing |
|------------------|-------------|---|---|---------------------|------------------------------|
| EDGE-01U-EMOD | 1U | 432 mm x 107 mm x 44.5 mm (17 in x 4.2 in x 1.75 in) | 534 mm x 201 mm x 138 mm (21 in x 7.9 in x 5.4 in) | 1.14 kg (2.5 lb) | 8 |
| EDGE-01U-EMOD-SP | 1U | 432 mm x 107 mm x 44.5 mm (17 in x 4.2 in x 1.75 in) | 534 mm x 201 mm x 138 mm (21 in x 7.9 in x 5.4 in) | 1.22 kg (2.7 lb) | 12 |
| EDGE-01U-FP | 1U | 488 mm x 439 mm x 43 mm (19.2 in x 17.3 in x 1.7 in) | 584 mm x 470 mm x 152 mm (22.9 in x 18.5 in x 5.9 in) | 4.4 kg (9.6 lb) | 8 |
| EDGE-02U-FP | 2U | 432 mm x 434 mm x 89 mm (17 in x 17.1 in x 3.5 in) | 569 mm x 346 mm x 229 mm (22.4 in x 13.6 in x 9 in) | 6.4 kg (14 lb) | 16 |
| EDGE-04U-FP | 4U | 432 mm x 434 mm x 178 mm (17 in x 17.1 in x 3.5 in) | 567 mm x 346 mm x 320 mm (22.4 in x 13.6 in x 7.25 in) | 9.6 kg (21 lb) | 32 |
| EDGE-FZB-04U | – | 527 mm x 527 mm x 241 mm (20.75 x 20.75 in x 9.5 in) | 656 mm x 643 mm x 356 mm (25.8 in x 25.3 in x 14 in) | 17.8 kg (39 lb) | 32 |
| EDGE-SMH | – | 152 mm x 102 mm x 25 mm (6 in x 4 in x 1 in) | 229 mm x 184 mm x 57 mm (9 in x 7.25 in x 2.25 in) | 1 kg (3 lb) | 1 |

EDGE™ Solutions

EDGE™ Trunks

EDGE™ MTP® trunks are preterminated cables with MTP connectors. Available in MTP to MTP or MTP to LC configurations, these trunks provide the backbone of the passive network infrastructure and enable rapid deployment for your campus LAN or data center facility.

All trunks are manufactured with Corning® CleanAdvantage™ technology and shipped with strain-relief clips, allowing for easy and quick tool-less installation in both EDGE solutions and Plug & Play™ systems housings.

Features and Benefits

Snap-in strain-relief clips

Provide easier cable management

Small outer diameter

Improves cable tray fill ratio and allows for improved airflow

Low-loss connectivity

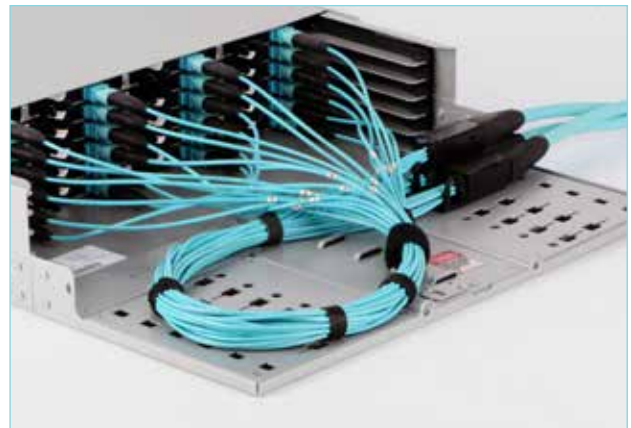
Enables system design flexibility

Bend-improved fiber

Allows tighter cable bends for slack storage and routing, less risk of downtime due to pinched or bent cables

Corning CleanAdvantage technology and optimized dust cap

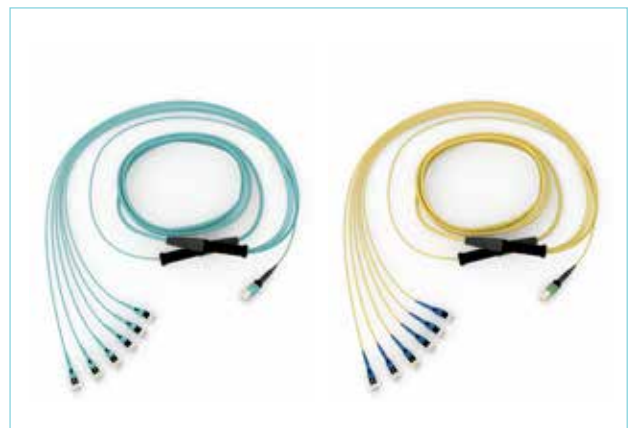
Eliminates the need for scoping and cleaning prior to initial field connection



EDGE-02U Rack-Mount Rear Side | Photo LAN7314



EDGE MTP to MTP Trunk | Photo REN4958 and REN4957



EDGE MTP to LC Hybrid Trunk
| Photo REN7080 and REN7081

Trunk Specifications

| | |
|-----------------------|--|
| Approval and Listings | NFPA 262, National Electrical Code® (NEC®), OFNP, CSA FT-6 EIA/TIA 568.3-D – includes low/high temperature soak of -10/60°C, humidity testing at 90-95 percent at 40°C, connector durability (500 matings) and connector pull testing |
| Trunk Performance | Trunks can be pulled up to 100 lbs using the grip |

| Mechanical Characteristics | | | | | | | |
|---|----------------------------|-----------------------------|----------------------------|---------------------------------------|-----------------------------|---------------------------------------|-----------------------------------|
| Fiber Count | Nominal Outer Diameter | Pulling Grip Outer Diameter | Strain-Relief Bracket Size | Minimum Conduit Size with 18-in Elbow | Weight | Min. Bend Radius Installation 15 x OD | Min. Bend Radius Operation 5 x OD |
| Non-Armored Trunk Specifications | | | | | | | |
| 12 | 5.5 mm ± 0.3 (0.22 in) | 41 mm (1.6 in) | 1 | 2.5 in | 32 kg/km (22 lb/1,000 ft) | 82.5 mm (3.25 in) | 27.5 mm (1.08 in) |
| 24 | 7.7 mm ± 0.3 mm (0.30 in) | 41 mm (1.6 in) | 1 | 2.5 in | 50 kg/km (34 lb/1,000 ft) | 115.5 mm (4.55 in) | 38.5 mm (1.52 in) |
| 36 | 8.0 mm ± 0.3 mm (0.31 in) | 41 mm (1.6 in) | 1 | 2.5 in | 56 kg/km (38 lb/1,000 ft) | 120 mm (4.72 in) | 40 mm (1.57 in) |
| 48 | 8.5 mm ± 0.3 mm (0.33 in) | 56 mm (2.2 in) | 2 | 3.0 in | 63 kg/km (42 lb/1,000 ft) | 127.5 mm (5.02 in) | 42.5 mm (1.67 in) |
| 72 | 10.5 mm ± 0.3 mm (0.41 in) | 56 mm (2.2 in) | 2 | 3.0 in | 93 kg/km (62 lb/1,000 ft) | 157.5 mm (6.2 in) | 52.5 mm (2.07 in) |
| 96 | 11.9 mm ± 0.3 mm (0.47 in) | 56 mm (2.2 in) | 2 | 3.0 in | 111 kg/km (75 lb/1,000 ft) | 178.5 mm (7.03 in) | 59.5 mm (2.34 in) |
| 144 | 12.5 mm ± 0.3 mm (0.49 in) | 56 mm (2.2 in) | 2 | 3.0 in | 130 kg/km (87 lb/1,000 ft) | 187.5 mm (7.38 in) | 62.5 mm (2.46 in) |
| 192 | 13.5 mm ± 0.8 mm (0.53 in) | 38.1 mm (1.5 in) | Heat-shrink | 2.0 in | 182 kg/km (122 lb/1,000 ft) | 202.5 mm (7.97 in) | 67.5 mm (2.66 in) |
| 216 | 14.0 mm ± 0.8 mm (0.55 in) | 38.1 mm (1.5 in) | Heat-shrink | 2.0 in | 195 kg/km (131 lb/1,000 ft) | 210 mm (8.27 in) | 70 mm (2.76 in) |
| 288 | 16.0 mm ± 0.8 mm (0.63 in) | 38.1 mm (1.5 in) | Heat-shrink | 2.0 in | 238 kg/km (160 lb/1,000 ft) | 240 mm (9.45 in) | 80 mm (3.15 in) |
| 432 | 22.9 mm ± 0.8 mm (0.90 in) | 48.3 mm (1.9 in) | Heat-shrink | 2.5 in | 400 kg/km (269 lb/1,000 ft) | 343.5 mm (13.52 in) | 114.5 mm (4.51 in) |
| 576 | 24.5 mm ± 0.8 mm (0.96 in) | 48.3 mm (1.9 in) | Heat-shrink | 2.5 in | 472 kg/km (317 lb/1,000 ft) | 367.5 mm (14.47 in) | 122.5 mm (4.82 in) |

Trunk Specifications (continued)

| Mechanical Characteristics | | | | | | | |
|------------------------------|------------------------|-----------------------------|----------------------------|---------------------------------------|--------------------------------|--|--------------------------------------|
| Fiber Count | Nominal Outer Diameter | Pulling Grip Outer Diameter | Strain-Relief Bracket Size | Minimum Conduit Size with 18-in Elbow | Weight | Min. Bend Radius Installation 15 x OD | Min. Bend Radius Operation 5 x OD |
| Armored Trunk Specifications | | | | | | | |
| 12 | 11.3 mm (0.45 in) | 51 mm (2.0 in) | Single | 3.0 in | 109 kg/km (73 lb/1,000 ft) | 169.5 mm (6.67 in) | 56.5 mm (2.22 in) |
| 24 | 13.7 mm (0.54 in) | 51 mm (2.0 in) | Single | 3.0 in | 145 kg/km (97 lb/1,000 ft) | 205.5 mm (8.09 in) | 68.5 mm (2.70 in) |
| 36 | 13.7 mm (0.54 in) | 51 mm (2.0 in) | Single | 3.0 in | 151 kg/km (102 lb/1,000 ft) | 205.5 mm (8.09 in) | 68.5 mm (2.70 in) |
| 48 | 15.1 mm (0.59 in) | 51 mm (2.0 in) | Double | 3.0 in | 167 kg/km (113 lb/1,000 ft) | 226.5 mm (8.92 in) | 75.5 mm (2.97 in) |
| 72 | 16.6 mm (0.65 in) | 51 mm (2.0 in) | Double | 3.0 in | 207 kg/km (140 lb/1,000 ft) | 249 mm (9.80 in) | 83 mm (3.27 in) |
| 96 | 17.3 mm (0.68 in) | 51 mm (2.0 in) | Double | 3.0 in | 232 kg/km (156 lb/1,000 ft) | 259.5 mm (10.22 in) | 86 mm (3.41 in) |
| 144 | 18.8 mm (0.74 in) | 51 mm (2.0 in) | Double | 3.0 in | 260 kg/km (175 lb/1,000 ft) | 282 mm (11.10 in) | 94 mm (3.70 in) |

Transmission Performance

| Fiber Type* | Multimode | Multimode | Multimode | Single-Mode |
|--|-------------------------|-------------------------|-------------------------|----------------|
| Fiber Core Diameter (µm)† | 50 | 50 | 50 | 8.2 |
| Fiber Category‡ | OM3 | OM4 | OM5 | OS2 |
| Fiber Code | T | Q | V | G |
| Wavelengths (nm) | 850/1300 | 850/1300 | 850/953/1300 | 1310/1383/1550 |
| Maximum Attenuation (dB/km) | 2.8/1.0 | 2.8/1.0 | 2.8/1.0 | 0.4/0.4/0.3 |
| Min. Overfilled Launch (OFL) Bandwidth MHz•km | 1500/500 | 3500/500 | 3500/1850/500 | – |
| Minimum Effective Modal Bandwidth (EMB) MHz•km | 2000/– | 4700/– | 4700/2470/– | – |
| Serial 1 Gigabit Ethernet (m) | 1000/600 | 1100/600 | 1100/600/– | 5000/–/– |
| Serial 10 Gigabit Ethernet (m) | 300/– | 550/– | 550/–/– | 10000/–/40000 |
| Induced Attenuation @ 7.5 mm Radius dB | < 0.2 (2 turns, 850 nm) | < 0.2 (2 turns, 850 nm) | < 0.2 (2 turns, 850 nm) | – |

*Single-mode (OS2) fiber is ITU-T G.652.D compliant.

†50 µm multimode fiber (OM3/OM4) meets 0.75 ns optical skew when used in all Corning Plug & Play™/EDGE™ systems solutions.

‡OM3/OM4 multimode fiber minimum effective modal bandwidth assumes 1.0 dB maximum total connector/splice loss.

- Notes:
- 1) Improved attenuation and bandwidth options available.
 - 2) Bend-insensitive single-mode fibers available on request.
 - 3) Contact a Corning Customer Care Representative for additional information.

Optical Performance Multimode

| | Connector Polish | End Face | Reflectance | Max. Insertion Loss | Operation |
|-------------|------------------|----------|-------------|---------------------|---------------|
| MTP® Trunks | PC | Flat | ≤ -20 dB | ≤ 0.25 dB* | -10°C to 60°C |

Optical Performance Single-Mode

| | Connector Polish | End Face | Reflectance | Max. Insertion Loss | Operation |
|------------|------------------|----------|-------------|---------------------|---------------|
| MTP Trunks | APC | Angled | ≤ -65 dB | ≤ 0.35 dB* | -10°C to 60°C |

*Note: IL in pre-connectorized products is measured in the factory through two mated pairs.

Trunk Shipping Information

| Reel Capacities – 12 to 144 Fibers (Armored) | | | | | | |
|---|-----------------|--------------|--------------|--------------|--------------|--------------|
| Packaging Method | Box H | AA (32) | AB (36) | AC (42) | Z (48) | |
| Packaging Material | Corrugated box | Plastic reel | Plastic reel | Plastic reel | Plywood reel | |
| Reel Diameter (in) | - | 32 | 36 | 42 | 48 | |
| Reel Width (in) | - | 20 | 20 | 20 | 35.5 | |
| Box Dimensions (in) | 31 x 31.5 x 7 | - | - | - | - | |
| Fiber Count | Capacities (ft) | | | | | |
| 12 | 10-50 | 51-3,227 | 3,228-4,957 | 4,958-6,100 | - | |
| 24 | 10-50 | 51-2,196 | 2,197-3,372 | 3,373-4,100 | - | |
| 36 | 10-50 | 51-1,496 | 1,497-2,380 | 2,381-4,100 | - | |
| 48 | 10-50 | 51-1,450 | 1,451-2,300 | 2,301-4,000 | - | |
| 72 | 10-50 | 51-1,250 | 1,251-2,297 | 2,298-2,850 | 2,851-5,600 | |
| 96 | 10-50 | 51-940 | 940-1,530 | 1,531-2,580 | 2,581-2,900 | |
| 144 | 10-50 | 51-680 | 680-1,240 | 1,241-2,200 | 2,201-2,500 | |
| Reel Capacities – 12 to 144 Fibers (Non-Armored) | | | | | | |
| Packaging Method | Box E | Small EDGE™ | Medium EDGE | Large EDGE | AA (32) | AB (36) |
| Packaging Material | Corrugated Box | Plastic Reel | Plastic Reel | Plastic Reel | Plastic Reel | Plastic Reel |
| Reel Diameter (in) | - | 19.5 | 19.5 | 19.5 | 32 | 36 |
| Reel Width (in) | - | 5 | 10 | 16 | 20 | 20 |
| Box Dimensions (in) | 21 x 21 x 3.3 | - | - | - | - | - |
| Fiber Count | Capacities (ft) | | | | | |
| 12 | 10-75 | 76-1,200 | 1,201-2,255 | 2,256-3,500 | 3,501-5,306 | 5,037-10,988 |
| 24 | 10-75 | 76-600 | 601-1,100 | 1,101-1,800 | 1,801-2,569 | 2,570-5,607 |
| 36 | 10-75 | 76-550 | 551-1,050 | 1,051-1,700 | 1,701-2,378 | 2,379-5,193 |
| 48 | 10-75 | 76-450 | 450-999 | 1,000-1,500 | 1,501-2,109 | 2,110-4,599 |
| 72 | 10-75 | 76-300 | 301-600 | 601-999 | 1,000-1,381 | 1,382-3,015 |
| 96 | 10-75 | 76-250 | 251-500 | 501-800 | 801-1,076 | 1,077-2,345 |
| 144 | 10-75 | 76-200 | 201-400 | 401-700 | 700-974 | 975-2,125 |
| Reel Capacities – 192 to 576 Fibers (Non-Armored) | | | | | | |
| Packaging Method | Box H | AA (32) | AB (36) | AC (42) | Z (48) | |
| Packaging Material | Corrugated box | Plastic reel | Plastic reel | Plastic reel | Plywood reel | |
| Reel Diameter (in) | - | 32 | 36 | 42 | 48 | |
| Reel Width (in) | - | 20 | 20 | 20 | 35.5 | |
| Box Dimensions (in) | 31 x 31.5 x 7 | - | - | - | - | |
| Fiber Count | Capacities (ft) | | | | | |
| 192 | 10-202 | 203-836 | 837-1,824 | 1,825-3,271 | 3,272-8,800 | |
| 216 | 10-172 | 173-777 | 778-1,696 | 1,697-3,041 | 3,042-8,200 | |
| 288 | 10-137 | 138-593 | 594-1,299 | 1,300-2,394 | 2,395-6,200 | |
| 432 | 10-66 | 67-292 | 293-633 | 634-1,246 | 1,247-3,000 | |
| 576 | 10-61 | 61-252 | 253-554 | 555-1,089 | 1,090-2,685 | |

EDGE™ Solutions

MTP® Trunks

EDGE™ MTP® trunks provide the backbone of the EDGE solution. With non-pinned MTP connectors on both ends, these trunks are designed to interface with the EDGE solutions or Plug & Play™ systems modules. All MTP trunks are manufactured with Corning® CleanAdvantage™ and shipped with strain-relief clips to allow easy tool-less installation. MTP trunk pulling grips can be pulled using up to 100 lbs of pulling tension while providing complete protection for the connectors.



EDGE MTP Trunk | Photo REN4958

Ordering Information



*For custom labels, add the letter "L" as prefix to the part number e.g., LG757548QPNDUxxxL
Print for custom labels can be up to 30 characters. Information to be printed on custom labels must be provided at the time of order.

1 Select grip.

G = Grip on first end only
D = Grip on both ends
Z = No grip

2 Select MTP connector (end one on outside of reel).

75 = MTP 12 F (non-pinned) MM
90 = MTP 12 F (non-pinned) SM
00 = Pigtail (only available with "P = straight-through polarity")

3 Select MTP connector (end two on inside of reel).

75 = MTP 12 F (non-pinned) MM
90 = MTP 12 F (non-pinned) SM

4 Select standard fiber count.

12 = 12 fiber E4 = 144 fiber
24 = 24 fiber K2 = 192 fiber
36 = 36 fiber M6 = 216 fiber
48 = 48 fiber U8 = 288 fiber
72 = 72 fiber AK = 432 fiber
96 = 96 fiber AZ = 576 fiber

5 Select fiber type.

T = 50 μm multimode (OM3)
Q = 50 μm multimode (OM4)
V = 50 μm wideband multimode (OM5)
G = Single-mode Ultra (OS2)

6 Select cable type.

PN = Plenum, non-armored
AD = Plenum, BX armored

7 Select leg length (end one on outside of reel).

D = 33 in (+3.5/-1.0 in)*
0 = Pigtail

8 Defines leg length (end two on inside of reel).

D = 33 in (+3.5/-1.0 in)*

9 Select trunk type.

U = Standard Type-B
P = Straight-through Type-A

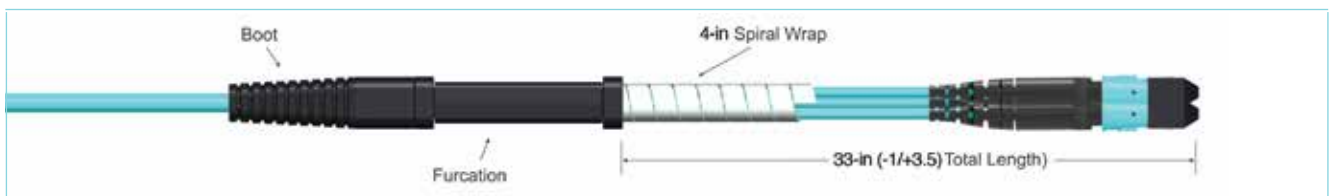
10 Select cable length.

005-999 ft
(1 ft increments measured from furcation to furcation)
002-300 m
(1 m increments measured from furcation to furcation)
Longer cable lengths available upon request.

11 Select unit of measure.

F = Feet
M = Meters

*For fiber counts above 144 F, the legs will be staggered starting at 33 in.



EDGE Solutions Trunk Cable Configuration | Drawing ZA-3496

EDGE™ Solutions

MTP® Extender Trunks

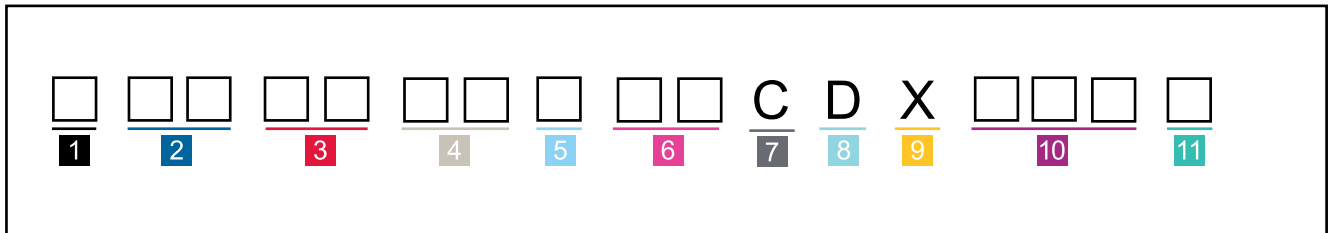
EDGE™ MTP® extender trunks provide additional distance for the backbone of the EDGE solution. With a non-pinned MTP connector on one end, a pinned connector on the other, and a TIA-568 Type-A polarity, these trunks are designed to interface with an EDGE solutions or Plug & Play™ systems module and an MTP trunk. All extender trunks are manufactured with Corning® CleanAdvantage™ technology and shipped with strain-relief clips to allow easy tool-less installation.

MTP extender trunks are most often used in a zone distribution area (ZDA).



EDGE MTP Extender Trunk
| Photo REN4958

Ordering Information



1 Select grip.

G = Grip on first end only
Z = No grip

2 Select MTP connector (end one on outside of reel).

93 = MTP 12 F (pinned) MM
89 = MTP 12 F (pinned) SM

3 Select MTP connector (end two on inside of reel).

75 = MTP 12 F (non-pinned) MM
90 = MTP 12 F (non-pinned) SM

4 Select standard fiber count.

12 = 12 fiber E4 = 144 fiber
24 = 24 fiber K2 = 192 fiber
36 = 36 fiber M6 = 216 fiber
48 = 48 fiber U8 = 288 fiber
72 = 72 fiber AK = 432 fiber
96 = 96 fiber AZ = 576 fiber

5 Select fiber type.

T = 50 μm multimode (OM3)
Q = 50 μm multimode (OM4)
V = 50 μm wideband multimode (OM5)
G = Single-mode Ultra (OS2)

6 Select cable type.

PN = Plenum, non-armored
AD = Plenum, BX armored

7 Defines leg length (end two on inside of reel).

C = 60 in (+3.5/-1 in)*
Mates with trunk (long leg reaches from rear to the front side of housing).

8 Defines leg length (end one on outside of reel).

D = 33 in (+3.5/-1 in)*
Mates with module/harness.

9 Defines trunk type.

X = Extender

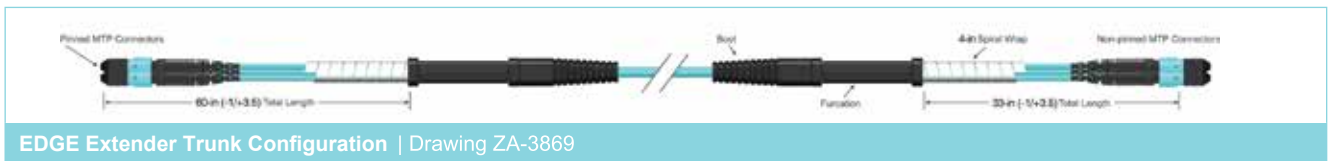
10 Select cable length.

005-999 ft
(1 ft increments measured from furcation to furcation)
002-300 m
(1 m increments measured from furcation to furcation)
Longer cable lengths available upon request.

11 Select unit of measure.

F = Feet
M = Meters

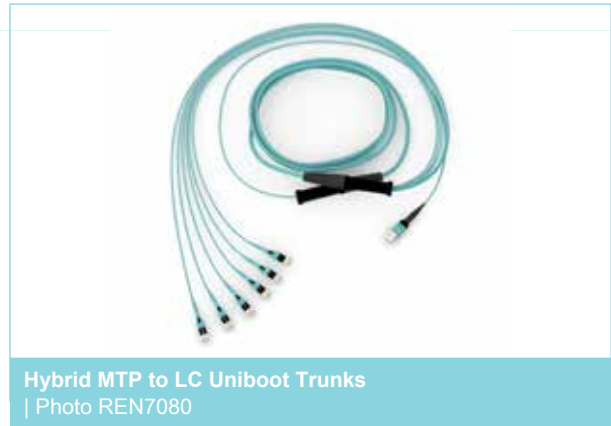
*For fiber counts above 144 F, the legs will be staggered starting at 33 in.



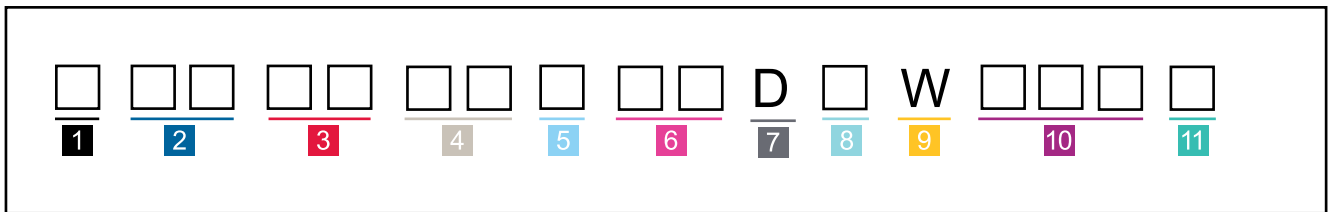
EDGE™ Solutions

Hybrid MTP® to LC Uniboot Trunks

EDGE™ MTP® to LC uniboot hybrid trunks combine non-pinned MTP connectors, which connect to EDGE modules, and LC uniboot connectors, which connect directly to the electronics. These trunks enable additional options for cabling of data centers. All hybrid trunks are manufactured with Corning® CleanAdvantage™ technology and shipped with strain-relief clips to allow easy tool-less installation.



Ordering Information



1 Select grip.

G = Grip on one end
Z = No grips

2 Select MTP connector

(end one on outside of reel).
75 = MTP 12 F (non-pinned) MM
90 = MTP 12 F (non-pinned) SM

3 Select LC connector

(end two on inside of reel).
79 = LC uniboot, low-loss MM
78 = LC UPC uniboot SM

4 Select fiber count.

12 = 12 fiber 72 = 72 fiber
24 = 24 fiber 96 = 96 fiber
36 = 36 fiber E4 = 144 fiber
48 = 48 fiber

5 Select fiber type.

T = 50 μm multimode (OM3)
Q = 50 μm multimode (OM4)
V = 50 μm wideband multimode (OM5)
G = Single-mode Ultra (OS2)

6 Defines cable type.

PN = Plenum, non-armored
AD = Plenum, BX armored

7 Defines leg length

(end one on inside of reel).
D = 33 in (+3.5/-1.0 in)*
Mates with module/harness.

8 Select leg length

(end two on inside of reel).
K = 24 in (+3.5/-1.0 in)
L = 36 in (+3.5/-1.0 in)(standard)
M = 48 in (+3.5/-1.0 in)
N = 60 in (+3.5/-1.0 in)
P = 72 in (+3.5/-1.0 in)

9 Defines trunk type.

W = Universal hybrid trunk

10 Select cable length.

005-999 ft
(1 ft increments measured from furcation to furcation)
002-300 m
(1 m increments measured from furcation to furcation)
Longer cable lengths available upon request.

11 Select unit of measure.

F = Feet
M = Meters



EDGE™ Solutions

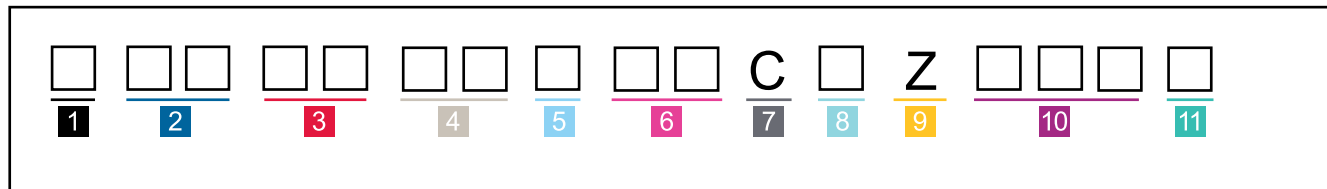
Hybrid MTP® to LC Uniboot Extender Trunks

EDGE™ MTP® to LC uniboot hybrid extender trunks combine pinned MTP connectors, which connect to MTP trunks, and LC uniboot connectors, which connect directly to the electronics. These trunks enable additional options for cabling of data centers and are most often used in a zone distribution area (ZDA). All hybrid trunks are manufactured with Corning® CleanAdvantage™ technology.



Hybrid MTP to LC Uniboot Extender Trunks
| Photo REN7078

Ordering Information



1 Select grip.

G = Grip on one end
Z = No grips

2 Select MTP connector (end one on outside of reel).

93 = MTP 12 F (pinned) MM
89 = MTP 12 F (pinned) SM

3 Select LC connector (end two on inside of reel).

79 = LC uniboot, low-loss MM
78 = LC UPC uniboot SM

4 Select fiber count.

12 = 12 fiber 72 = 72 fiber
24 = 24 fiber 96 = 96 fiber
36 = 36 fiber E4 = 144 fiber
48 = 48 fiber

5 Select fiber type.

T = 50 μm multimode (OM3)
Q = 50 μm multimode (OM4)
V = 50 μm wideband multimode (OM5)
G = Single-mode Ultra (OS2)

6 Defines cable type.

PN = Plenum, non-armored
AD = Plenum, BX armored

7 Defines leg length (end one on outside of reel).

C = 60 in (+3.5/-1.0 in)*
Mates with module/harness.

8 Select 2.0 mm leg length (end two on inside of reel).

K = 24 in (+3.5/-1.0 in)
L = 36 in (+3.5/-1.0 in)(standard)
M = 48 in (+3.5/-1.0 in)
N = 60 in (+3.5/-1.0 in)
P = 72 in (+3.5/-1.0 in)

9 Defines trunk type.

Z = Universal hybrid extender

10 Select cable length.

005-999 ft
(1 ft increments measured from furcation to furcation)
002-300 m
(1 m increments measured from furcation to furcation)
Longer cable lengths available upon request.

11 Select unit of measure.

F = Feet
M = Meters



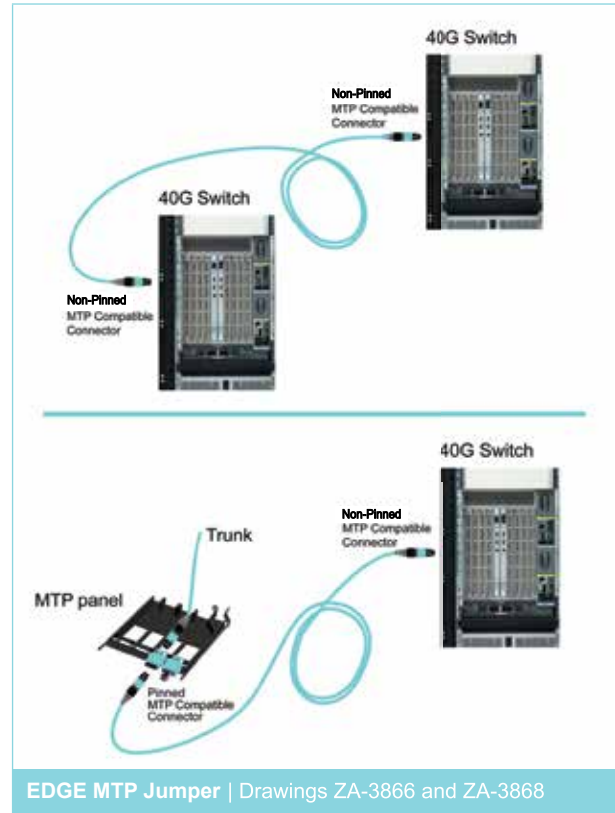
EDGE Solutions Hybrid Extender Trunk Configuration
| Drawing ZA-3871

EDGE™ Solutions

MTP® Jumpers

EDGE™ MTP® jumpers are used to create a connection between MTP adapter panels, conversion modules, and electronics, typically providing connectivity within the rack or within the row. These plenum-rated cable assemblies feature a smaller (2.0 mm) outside diameter than traditional 12-fiber jumpers to improve finger access as well as reduce congestion and increase airflow in the horizontal and vertical rack space. EDGE 12-fiber MTP jumpers have the same connector size and cable footprint as LC duplex jumpers used today. The density, airflow, and cable management advantages of EDGE solutions is preserved as you migrate to higher data rates.

These jumpers are manufactured using Corning® CleanAdvantage™ technology and shipped with optimized caps, eliminating the need for cleaning and scoping prior to the initial field connection. They are built with MTP PRO connectors, allowing for a simple one-step color-coded polarity change without removing the connector housing. The connector also provides the capability for field-friendly pinning configuration changes with safe handling of pins and easy color identification while maintaining product integrity.



Ordering Information

* J 1 2 E 8 - N

1
2
3
4
5
6
7
8

*For custom labels, add the letter "L" as prefix to the part number e.g. LJ757512QE8-NBxxxF
 Print for custom labels can be up to 30 characters. Information to be printed on custom labels must be provided at the time of order.

1 Select MTP PRO connector.

- 75 = MTP 12 F (non-pinned) MM
- 93 = MTP 12 F (pinned) MM
- 89 = MTP 12 F (pinned) SM
- 90 = MTP 12 F (non-pinned) SM

2 Select MTP PRO connector.

- 75 = MTP 12 F (non-pinned) MM
- 93 = MTP 12 F (pinned) MM
- 89 = MTP 12 F (pinned) SM
- 90 = MTP 12 F (non-pinned) SM

3 Select fiber type.

- T = 50 μm multimode (OM3)
- Q = 50 μm multimode (OM4)
- V = 50 μm wideband multimode (OM5)
- G = Single-mode Ultra (OS2)

4 Defines cable type.

- E8 = Plenum, interconnect

5 Select jumper.

- N = Jumper, no furcation

6 Select polarity.

- A = Type-A polarity
 - B = Type-B polarity
- Note: For jumper polarity, reference AEN151.*

7 Select jumper length.

- 003-200 ft
(Measured in 1 ft increments)
- 001-060 m
(Measured in 1 m increments)

8 Select unit of measure.

- F = Feet
- M = Meters

Note: Always list lowest numbered connector first.

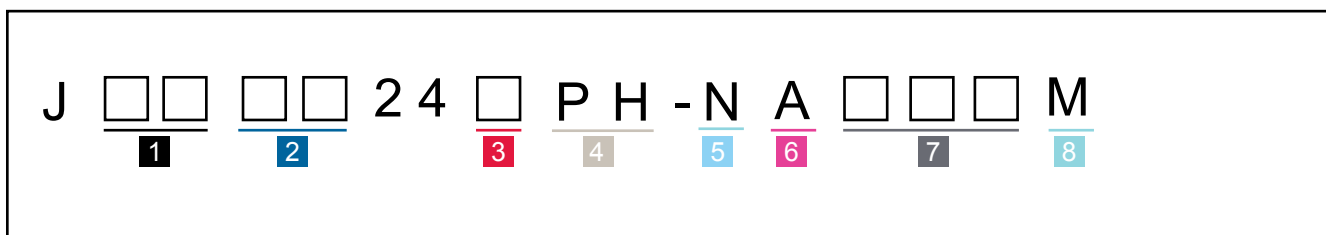
EDGE™ Solutions

MTP® 24-F Jumpers

EDGE™ 24-fiber MTP jumpers allow for seamless migration to 100G when used in direct-connect architectures between electronics. The assemblies are plenum-rated and feature a 3.3 mm outside diameter. Multimode 24-fiber jumpers are manufactured with Corning® CleanAdvantage™ technology and shipped with an optimized dust cap.



Ordering Information



1 Select MTP connector.
A6 = MTP 24 F (non-pinned) MM
A9 = MTP 24 F (non-pinned) SM

2 Select MTP connector.
A6 = MTP 24 F (non-pinned) MM
A9 = MTP 24 F (non-pinned) SM

3 Select fiber type.
T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
G = Single-mode Ultra (OS2)

4 Defines cable type.
PH = Plenum, micro-module

5 Defines jumper.
N = Jumper, no furcation

6 Select polarity.
A = Type-A polarity

7 Select jumper length.
001-060 m
(Measured in 1 m increments)

8 Select unit of measure.
M = Meters

Notes:

- 1) Always list lowest numbered connector first.
- 2) Refer to AEN150 for application guidance.

EDGE™ Solutions

EDGE™ Harnesses

One of the critical challenges facing data center owners, operators, and maintenance personnel in high-density (HD) computing areas is how to provide high-port-concentration deployments to support the latest generation of high-speed switches without losing them under a mass of jumpers.

EDGE™ staggered and nonstaggered harnesses are ultra-slim 12-fiber (2.0 mm OD) preterminated cable with an MTP® PRO connector on one end and six LC uniboot connectors on the other. The majority of the harness is a single cable which breaks out into six, 2-fiber legs to enable connectivity to the switch ports. Stagger options replicate the specific switch ports to save on excess cable length. MTP PRO allows for a simple one-step color-coded polarity change feature without removing the connector housing. The connector also provides the capability for field-friendly pinning configuration changes with safe handling of pins and easy color identification while maintaining product integrity.

Specially designed harnesses are available for numerous distribution switches including Cisco, Arista, Brocade, Juniper, and HP using SFP+ (LC interfaces) for Ethernet or Fibre Channel with duplex transmission for port mirroring, aggregation, fabric, or breakout applications.

EDGE conversion harnesses and 24-fiber harnesses ensure 100% trunk fiber utilization at 40 and 100G. These solutions allow for design flexibility with various breakout configurations to meet your connectivity needs. EDGE Tap harnesses, in conjunction with EDGE Tap modules, offer a network monitoring solution that integrates directly into the EDGE structured cabling footprint, with increased rack space utilization and density.

Features and Benefits

Slim, round 2-fiber interconnect cable
Improves airflow and reduces congestion

MTP PRO connectors
Allows for pinning and polarity changes in the field

Low-loss connectivity
Enables system design flexibility

Bend-improved fiber
Allows tighter cable bends for slack storage and routing, less risk of downtime due to pinched or bent cables

Corning® CleanAdvantage™ technology and optimized caps
Eliminates the need for scoping and cleaning prior to initial field connection

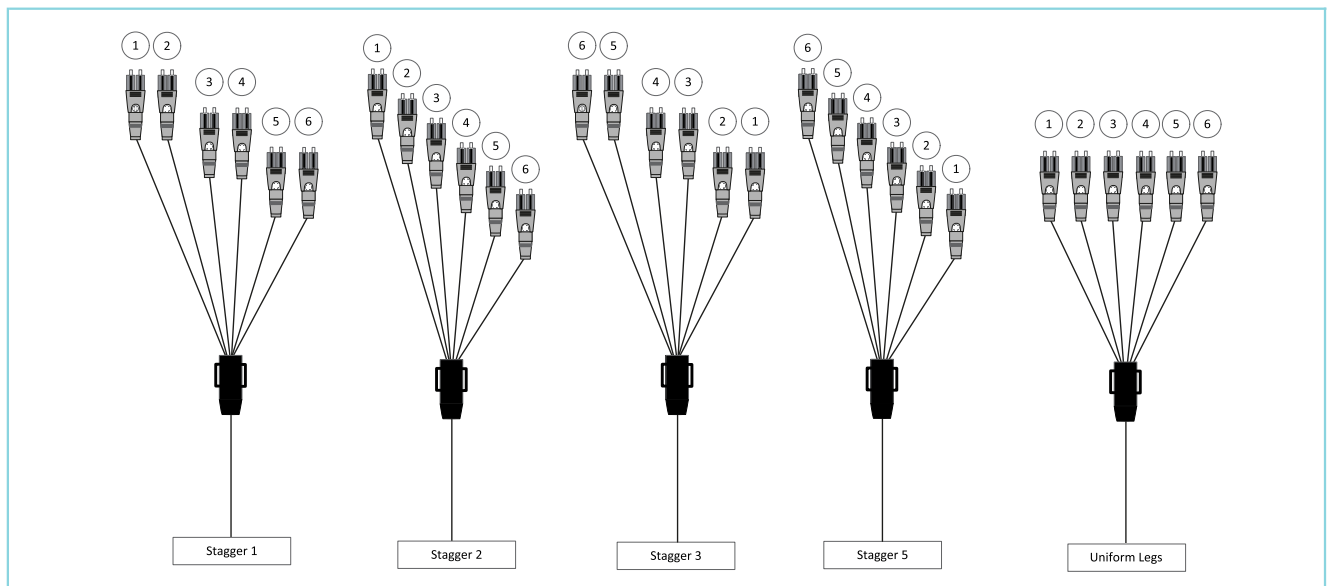
Conversion harnesses transition connectivity from 12 to 8 fibers
Ensures 100% utilization of trunks at 40 and 100G



EDGE MTP to LC Uniboot Harness, nonstaggered | Photo REN6458



EDGE 2x3 Conversion Harness | Photo REN7137



EDGE Staggered Harness Examples | Photo ZA-4252

EDGE™ Solutions

EDGE™ MTP® to LC Uniboot Nonstaggered Harnesses

EDGE™ MTP® to LC uniboot nonstaggered harnesses provide breakout from 12-fiber MTP PRO connectors to LC uniboot connectors. These harnesses come with nonstaggered legs in several length options.

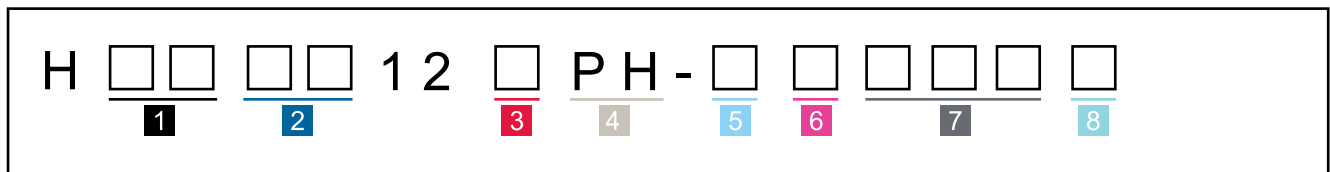
The EDGE module harness is designed to create a cross-connect point near the electronics by enabling port replication. This harness uses LC uniboot connectors to interface with the electronics and a non-pinned MTP PRO connector to connect into the back of a module. With port replication, the installation will look the same even after multiple moves, adds, and changes (MACs). This solution can be used in a horizontal distribution area (HDA).

The EDGE trunk harness is designed to facilitate an interconnect point when the electronics are located in a separate area than the cross-connect or patching field. This harness uses LC uniboot connectors to interface with the electronics and a pinned MTP PRO connector to connect into a trunk. This solution can be used in an equipment distribution area (EDA).



EDGE MTP to LC Uniboot Nonstaggered Harnesses
| Photo REN6458

Ordering Information



- 1** Select MTP PRO connector.
 75 = MTP 12 F (non-pinned) MM
 93 = MTP 12 F (pinned) MM
 89 = MTP 12 F (pinned) SM
 90 = MTP 12 F (non-pinned) SM

- 2** Select the breakout connector type.
 79 = LC uniboot, MM
 78 = LC UPC Uniboot SM
LCs are universally wired

- 3** Select fiber type.
 T = 50 μm multimode (OM3)
 Q = 50 μm multimode (OM4)
 V = 50 μm wideband multimode (OM5)
 G = Single-mode Ultra (OS2)

- 4** Defines cable type.
 PH = Plenum, harness

- 5** Select leg length in inches (leg OD is 2.0 mm).
 J = 12 in (+3.5/-1.0 in)
 K = 24 in (+3.5/-1.0 in)
 L = 36 in (+3.5/-1.0 in)
 M = 48 in (+3.5/-1.0 in)
 N = 60 in (+3.5/-1.0 in)
 P = 72 in (+3.5/-1.0 in)
 R = 98 in (+3.5/-1.0 in)
Furcation legs are color coded by fiber type.

- 6** Select harness polarity.
 A = Type-A
 B = Type-B

- 7** Select the harness length.
 003-200 ft
(1 ft increments measured from plug to MTP, does not include leg length)
 001-060 m
(1 m increments measured from plug to MTP, does not include leg length)

- 8** Select unit of measure.
 F = Feet
 M = Meters

An EDGE **harness** should have **type-A polarity** and a **pinned MTP PRO** connector when connecting to a **trunk**.
 An EDGE **harness** should have **type-B polarity** and a **non-pinned MTP PRO** connector when connecting to a **module**.

Harness length is measured from MTP connector to furcation plug and therefore does not include LC leg length.

EDGE™ Solutions

Conversion Harnesses

EDGE™ conversion harnesses are plenum-rated preterminated harnesses that provide conversion from 12- to 8-fiber connectivity for full-fiber utilization. These harnesses are offered as a 2x3 MTP® harness (two 12-fiber MTP PRO connectors on one end, three 8-fiber MTP PRO connectors on the other) for connection to electronics with MPO-style ports.

EDGE conversion harnesses are a TIA-568 Type-A component. They are manufactured with Corning® CleanAdvantage™ technology and shipped with optimized caps, eliminating the need for scoping and cleaning prior to initial field connection.



Ordering Information

H 9 3 7 5 2 4 P H - A F

1 **2** **3** **4**

1 Select fiber type.

T = 50 μm multimode (OM3)
Q = 50 μm multimode (OM4)

2 Select the 12-fiber MTP connector leg length in inches (leg OD is 2.6 mm).

K = 24 in (+3.5/-1.0 in)
L = 36 in (+3.5/-1.0 in)

3 Select the 8-fiber MTP connector leg length in inches (leg OD is 2.6 mm).

K = 24 in (+3.5/-1.0 in)
L = 36 in (+3.5/-1.0 in)

4 Select the harness length in feet (does not include leg length).

003-200

(1 ft increments measured from plug to MTP, does not include MTP leg length)

EDGE™ Solutions

24-Fiber “Y” Harnesses

EDGE™ solutions 24-fiber “Y” harnesses are plenum-rated preterminated assemblies that provide conversion from 24- to 12-fiber connectivity for full-fiber utilization of an existing Base-12 backbone. These harnesses are offered as a 1x2 MTP® assembly (one 24-fiber MTP connector on one end, two 12-fiber MTP PRO connectors on the other), creating the connection from the patch panel to 20-fiber/24-fiber switch ports.

Multimode 24-fiber “Y” harnesses are manufactured with Corning® CleanAdvantage™ technology.



Ordering Information

| | | | | | | | | | | | | | |
|---|----------------------|----------------------|----------------------|----------------------|----|----------------------|-----|----------------------|----------------------|----------------------|----------------------|----------------------|---|
| H | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | 24 | <input type="text"/> | PH- | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | F |
| | 1 | 2 | | 3 | | 4 | | 5 | 6 | | 7 | | |

1 Select 24-fiber MTP connector.

A6 = MTP 24 F (non-pinned) MM
A9 = MTP 24 F (non-pinned) SM

2 Select 12-fiber MTP PRO connector

75 = MTP 12 F (non-pinned) MM
93 = MTP 12 F (pinned) MM
89 = MTP 12 F (pinned) SM
90 = MTP 12 F (non-pinned) SM

3 Select fiber type.

Q = 50 μm multimode (OM4)
G = Single-mode Ultra (OS2)

4 Defines cable type.

PH = Plenum, harness

5 Select leg length in inches

K = 24 in
L = 36 in

6 Select polarity.

6 = Type-6 polarity
7 = Type-7 polarity
8 = Type-8 polarity
9 = Type-9 polarity
Z = Type-Z polarity

Refer to AEN150 and AEN156 for application and polarity information.

7 Select the harness length.

003-200 ft
(1 ft increments measured from plug to MTP does not include leg length)

Notes:

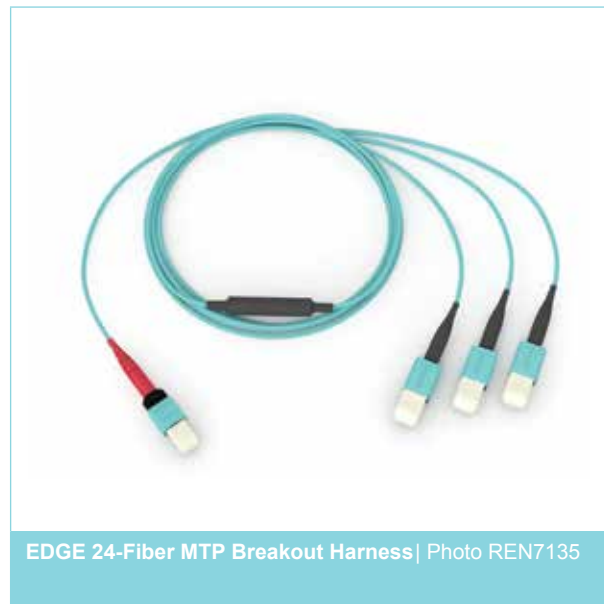
Type-6 and Type-7 polarity are only available with Non-Pinned 12-fiber MTP PRO for connector 2.
Type-Z, Type-8, and Type-9 polarity are only available with Pinned 12-fiber MTP PRO for connector 2.
Type-6 and Type-8 polarity are only available for multimode.

EDGE™ Solutions

24-Fiber MTP® Breakout Harnesses

EDGE™ solutions 24-fiber MTP® breakout harnesses are plenum-rated preterminated harnesses that provide conversion from 24- to 8-fiber connectivity. These harnesses are offered as a 1x3 MTP assembly (one 24-fiber MTP connector on one end, three 8-fiber MTP PRO connectors on the other), allowing for connectivity between the 24-fiber switch ports to three 8-fiber ports. These harnesses can also be used to breakout 24-fiber ports using Base-8 structured cabling. The MTP breakout harness is also available as a 20 F 1x10 assembly with 1 24 F MTP on one end and 10 2 F LC Duplex connectors on the other.

Multimode 24-fiber breakout harnesses are manufactured with Corning® CleanAdvantage™ technology.



EDGE 24-Fiber MTP Breakout Harness | Photo REN7135

Ordering Information

| | | | | | | | | | | |
|---|----------------------|----------------------|----------------------|----------------------|----------|----------------------|----------------------|----------------------|----------------------|---|
| H | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | PH- | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | F |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |

1 Select 24-fiber MTP connector.

A6 = MTP 24 F (non-pinned) multimode
A9 = MTP 24 F (non-pinned) single-mode

2 Select breakout connector.

05 = LC Duplex multimode
04 = LC Duplex single-mode
75 = MTP 12 F (non-pinned) multimode
93 = MTP 12 F (pinned) multimode
89 = MTP 12 F (pinned) single-mode
90 = MTP 12 F (non-pinned) single-mode

3 Select fiber type.

24 = 24 fiber
20 = 20 fiber

20 fiber only available for LC duplex breakout connectors

4 Select fiber type.

Q = 50 μm multimode (OM4)
G = Single-mode Ultra (OS2)

5 Define cable type.

PH = Plenum, harness

6 Select breakout leg length.

K = 24 in
L = 36 in

7 Select polarity.

A = Type-A polarity

Note: For harness polarity, reference AEN152.

8 Select the harness length.

003-200 ft

(1 ft increments measured from plug to MTP does not include leg length)

EDGE™ Solutions

Tap Module Harness

The EDGE™ Tap harness is used to breakout the 12-fiber MTP® tap port at the rear of the EDGE Tap module into LC duplex connectors. These duplex connectors then can be easily separated into simplex connectors to plug into monitoring electronics.

The use of harnesses provides a solution that occupies less space than traditional jumpers, as the cable end of the harness is much smaller than the size of equivalent jumpers. This reduced cabling bulk improves airflow for increased cooling and facilitates easier moves, adds, and changes (MACs).

The MTP PRO connector allows for pinning and polarity changes in the field.



Ordering Information

| | | | | | | | | | | | | |
|---|----------------------|----------------------|----------------------|----|----------------------|-------|----------------------|---|----------------------|----------------------|----------------------|----------------------|
| H | <input type="text"/> | <input type="text"/> | <input type="text"/> | 12 | <input type="text"/> | E 8 - | <input type="text"/> | W | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| | 1 | 2 | | | 3 | | 4 | | 5 | 6 | | |

- 1** Select MTP PRO connector.
75 = MTP 12 F (non-pinned) multimode
90 = MTP 12 F (non-pinned) single-mode

- 2** Select the LC connector.
03 = LC Simplex multimode
02 = LC UPC simplex single-mode

- 3** Select fiber type.
Q = 50 μ m multimode (OM4)
G = Single-mode Ultra (OS2)

- 4** Select leg length in inches
(leg OD is 2.0 mm)
J = 12 in (+3.5/-1 in)
K = 24 in (+3.5/-1 in)
L = 36 in (+3.5/-1 in)

- 5** Select the harness length.
003-200 ft
(1 ft increments measured from plug to MTP, does not include leg length)

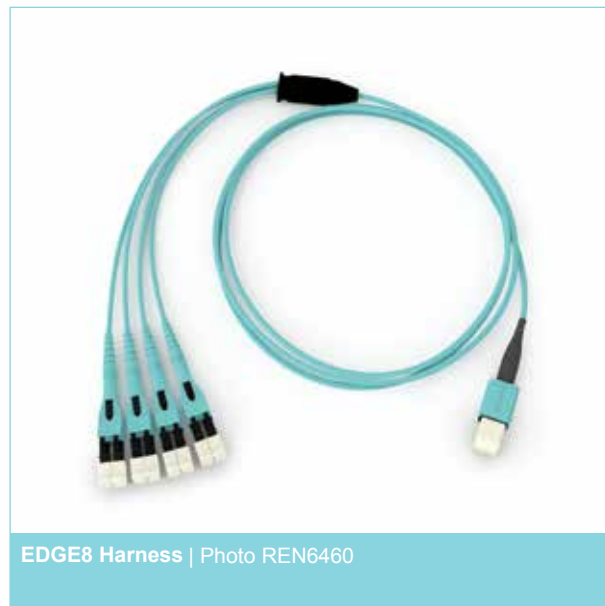
- 001-060 m
(1 ft increments measured from plug to MTP, does not include leg length)

- 6** Select unit of measure.
M = Meters
F = Feet

EDGE™ Solutions

EDGE8® MTP® to LC Harness

The EDGE8® MTP® to LC uniboot harness is for connection to electronics with LC-style ports and for use in aggregation of 10G ports to a 40G port. These harnesses have a pinned or non-pinned MTP PRO connector on one end and four LC uniboot connectors on the other. These harnesses are uniquely wired to manage polarity within and maintain transmit-to-receive connectivity.



EDGE8 Harness | Photo REN6460

Ordering Information

| | | | | | | | | | | | | | |
|---|----------------------|----------------------|-----------|----|----------------------|----------|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| H | <input type="text"/> | <input type="text"/> | <u>79</u> | 08 | <input type="text"/> | PH | - | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| | 1 | | 2 | | 3 | 4 | | 5 | 6 | | 7 | | 8 |

1 Select MTP PRO connector.
 E5 = MTP 8 F (pinned) MM
 E6 = MTP 8 F (non-pinned) MM

2 Select the breakout connector type.
 79 = LC uniboot MM
LCs are universally wired

3 Select fiber type.
 T = 50 μm multimode (OM3)
 Q = 50 μm multimode (OM4)

4 Defines cable type.
 PH = Plenum, harness

5 Select leg length in inches (leg OD is 2.0 mm).
 J = 12 in (+3.5/-1.0 in)
 K = 24 in (+3.5/-1.0 in)
 L = 36 in (+3.5/-1.0 in)
 M = 48 in (+3.5/-1.0 in)
 N = 60 in (+3.5/-1.0 in)
 P = 72 in (+3.5/-1.0 in)
 R = 98 in (+3.5/-1.0 in)

6 Select harness polarity.
 A = Type-A polarity
 B = Type-B polarity
Note: For harness polarity, reference AEN152.

7 Select the harness length.
 003-200 ft
(1 ft increments measured from plug to MTP, does not include leg length)
 001-060 m
(1 m increments measured from plug to MTP, does not include leg length)

8 Select unit of measure.
 F = Feet
 M = Meters

EDGE™ Solutions

EDGE™ Modules

EDGE™ modules provide the interface between the MTP® connector on the trunk and the LC duplex jumpers that connect directly into the electronics. LC duplex adapters on EDGE modules feature hinged VFL-compatible shutters that move up and out of the way when the connector is inserted. Specially designed indents in the shutters ensure that the end faces of the connectors are never touched. These shutters replace the standard dust caps that are typically never replaced after initial removal, exposing the interior end faces to dust particles and possible damages.

EDGE conversion and mesh modules ensure 100 percent trunk fiber utilization at 40 and 100G. These solutions allow for design flexibility with various breakout configurations to meet your connectivity needs.

Features and Benefits

Shuttered LC adapters

Creates one-hand operation while eliminating the need to remove and store dust caps

VFL-compatible shutters

Decreases time needed to test and troubleshoot a link

Rear-loading capability

Reduces the time to prepare and install modules into fiber housings

High density

Enables 576 fibers in a 4U housing and 144 fibers in a 1U

Low insertion loss performance

Improved performance specs allow for more mated pairs and/or longer link distances

Universal wiring

Decreases complexity and risks associated with managing polarity during moves, adds, and changes

Corning® CleanAdvantage™ technology and optimized caps

Eliminates the need for scoping and cleaning prior to initial field connection (excludes mesh modules and TAP modules)

Conversion modules transition connectivity from 12 to 8 fibers

Ensures 100% utilization of trunks at 40 and 100G

Conversion modules offer the industry's best rack density for parallel optics

72 MTP ports per 1U enable higher-revenue generation per rack unit



EDGE MTP to LC Module
| Photo REN6521



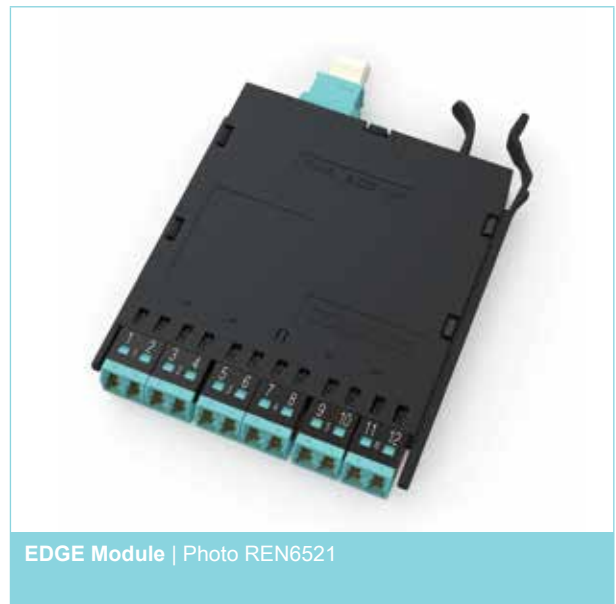
EDGE Conversion Module
| Photo REN7071

EDGE™ Solutions

Ultra-Low-Loss Modules

EDGE™ ultra-low-loss modules provide an interface between the MTP connector on an MTP trunk and the LC duplex jumpers that connect directly to the electronics. These modules allow for extended-reach capabilities in high-speed serial duplex transmission. They feature VFL-compatible LC shuttered adapters and are manufactured with Corning® CleanAdvantage™ technology.

The OM3/OM4/OM5 EDGE ultra-low-loss modules are specified to 0.35 dB compared to 0.5 dB for the low-loss EDGE module. The OS2 EDGE ultra-low-loss modules are specified to 0.60 dB compared to 1.0 dB for the standard EDGE module.



Ordering Information

ECM - □□ 12 - □□ - □□□ - U L L

1 2 3 4 5

1 Select polarity.

UM = Universal polarity
RM = Straight-through

2 Defines fiber count.

12 = 12 fibers

3 Select adapters on module front.

05 = Shuttered LC duplex MM
04 = Shuttered LC UPC duplex SM
18 = Shuttered LC APC duplex SM

4 Select MTP adapter on the back of the module.

93 = MTP 12 F (pinned) MM
89 = MTP 12 F (pinned) SM

5 Select fiber type.

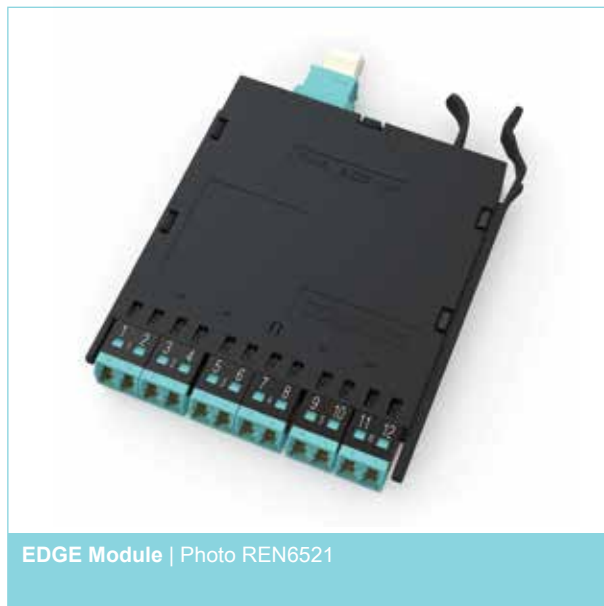
T = 50 μm multimode (OM3)
Q = 50 μm multimode (OM4)
V = 50 μm wideband multimode (OM5)
G = Single-mode Ultra (OS2)

EDGE™ Solutions

Low-Loss Modules

EDGE™ low-loss modules provide an interface between the MTP® connector on an MTP trunk and the LC duplex jumpers that connect directly to the electronics. These modules feature VFL-compatible LC shuttered adapters and are manufactured with Corning® CleanAdvantage™ technology.

They are specified to 0.5 dB for multimode (OM3/OM4/OM5) and 1.0 dB for single-mode (OS2).



Ordering Information

ECM - 1 2 - -

1 2 3 4 5

- 1** Select polarity.
UM = Universal polarity
RM = Straight-through

- 2** Defines fiber count.
12 = 12 fibers

- 3** Select adapters on module front.
05 = Shuttered LC duplex MM
04 = Shuttered LC UPC duplex SM
18 = Shuttered LC APC duplex SM

- 4** Select MTP adapter on the back of the module.
93 = MTP 12 F (pinned) MM
89 = MTP 12 F (pinned) SM

- 5** Select fiber type.
T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
V = 50 µm wideband multimode (OM5)
G = Single-mode Ultra (OS2)

EDGE™ Solutions

Conversion Modules

EDGE™ conversion modules have 12-fiber MTP® adapters in the rear for mating to backbone trunks and breakout to 8-fiber MTP adapters in the front for connectivity to electronics. These conversion modules fully utilize all fibers in each Base-12 set in the trunk by breaking out Base-12 MTP adapters at the rear of the module into a proportionate number of Base-8 MTP adapters at the front.

EDGE conversion modules are available in two configurations: 2x3 (two 12-fiber MTP adapters in the rear and three 8-fiber MTP adapters in the front) and 4x6 (four adapters in the rear and six in the front).

These modules come from the factory as a TIA-568 Type-B component. However, EDGE conversion modules also offer on-site MTP connectivity changes to manage field polarity. The front of the module features reversible translucent shuttered adapters. These modules are manufactured with Corning® CleanAdvantage™ technology and shipped with optimized MTP caps on the rear side of the module.



EDGE 2x3 Conversion Module | Photo REN7106



EDGE 4x6 Conversion Module | Photo REN7071

Ordering Information

| Part Number | Adapter Type Front | Adapter Color Front | Adapter Type Back | Fiber Category |
|-----------------|--------------------|---------------------|-------------------|----------------|
| ECM-UM24-93-93Q | Shuttered MTP | Aqua | MTP | 50 µm MM (OM4) |
| ECM-UM48-93-93Q | Shuttered MTP | Aqua | MTP | 50 µm MM (OM4) |

Note: For application reference, please refer to AEN150, AEN151, and AEN152

EDGE™ Solutions

Mesh Modules

EDGE™ 4x4 mesh modules are used to break out four-channel parallel ports to create a duplex fabric, eliminating the need to break the MTP® into LC connectivity. The mesh modules contain four 8-fiber MTPs in the rear for mating to backbone trunks and break out to four 8-fiber MTPs in the front for connectivity to the electronics. These modules allow customers to take advantage of higher port densities per switch with lower power consumption and a lower cost per 10G port. They also improve their ability to create port diversification when using QSFP+ transceivers for 10G applications.



EDGE MM Mesh Module | Photo REN890



EDGE SM Mesh Module | Photo REN899

Ordering Information

| Part Number | Adapter Type Front | Adapter Color | Adapter Type Back | Fiber Category |
|----------------|------------------------|---------------|-------------------|-------------------|
| EMM-MM32-9393Q | Shuttered MTP (Pinned) | Aqua | MTP (Pinned) | 50 µm MM (OM4) |
| EMM-MM32-9375Q | Shuttered MTP (Pinned) | Aqua | MTP (Non-pinned) | 50 µm MM (OM4) |
| EMM-SM32-8989G | Shuttered MTP (Pinned) | Black | MTP (Pinned) | Single-mode (OS2) |
| EMM-SM32-8990Q | Shuttered MTP (Pinned) | Black | MTP (Non-pinned) | Single-mode (OS2) |

EDGE™ Solutions

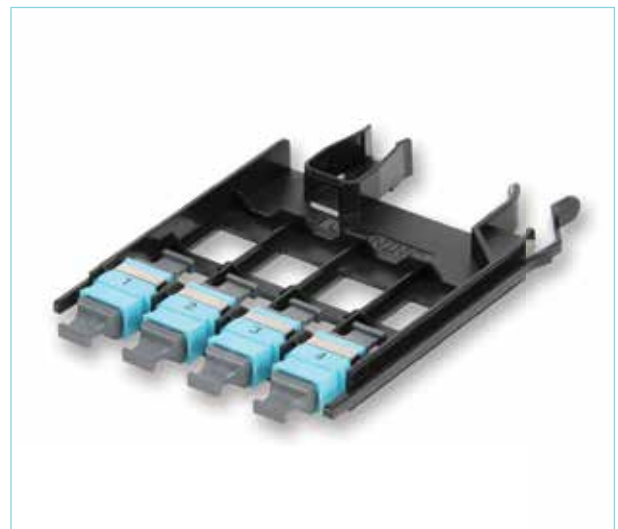
MTP® Adapter Panels

EDGE™ MTP® adapter panels provide a simple interface to mate MTP connectors. This occurs when connecting MTP trunks to MTP extender trunks, MTP trunks to trunk harnesses, and in 40G multimode networks when MTP trunks are connected to 40G jumpers.

EDGE 72-fiber MTP panels feature reversible translucent shuttered MTP adapters at the front of the panel.



EDGE 72-Fiber MTP Panel
| Photo LAN4147



MTP Adapter Panel with Four MTP Adapters
| Photo LAN2695

| Part Number | Fiber Count | Fiber Category |
|--------------|-------------|---------------------------|
| EDGE-CP24-E3 | 24 | 50 µm Multimode (OM3/OM4) |
| EDGE-CP24-EY | 24 | 50 µm Multimode (OM5) |
| EDGE-CP24-90 | 24 | Single-mode (OS2) |
| EDGE-CP48-E3 | 48 | 50 µm Multimode (OM3/OM4) |
| EDGE-CP48-EY | 48 | 50 µm Multimode (OM5) |
| EDGE-CP48-90 | 48 | Single-mode (OS2) |
| EDGE-CP72-U3 | 72 | 50 µm Multimode (OM3/OM4) |
| EDGE-CP72-UY | 72 | 50 µm Multimode (OM5) |
| EDGE-CP72-U1 | 72 | Single-mode (OS2) |

EDGE™ Solutions

EDGE™ Tap Modules

EDGE™ Tap modules, part of EDGE solutions for data centers and storage area networks (SAN), enable passive optical tapping of the network while reducing downtime and link loss, and increasing rack space utilization and density compared to other optical tap options.

Unlike other passive optical taps that must be added as separate devices in the network link, the EDGE Tap module integrates the coupler technology for passive optical tapping into a structured cabling component – the module. Monitored ports can be added without disrupting the system's live traffic. Elimination of the tap as a separate device reduces insertion loss in the link. EDGE Tap modules use an advanced splitter technology for multimode to reduce insertion loss compared to traditional splitter technology.

Featuring the EDGE solutions high-density module footprint, EDGE Tap modules are available in multiple configurations for network monitoring at 1G, 10G, or 40G. These tap modules enable up to 72 monitored links per one rack unit and fit seamlessly into EDGE solutions hardware for maximum cable management and better utilization of rack space.



EDGE Tap Modules | Photo REN3557 (MTP to LC) REN3556 (LC to LC) REN3559 (MTP to MTP)

EDGE™ Solutions

Features and Benefits

Network monitoring and tap splitters integrated into the structured cabling

Eliminates need for additional rack space and downtime associated with port tap changes

Rear-exiting, MTP® connector-based tap ports

Zero-rack-space impact results in higher revenue generation per rack unit

Advanced splitter technology

Maintains equal modal power distribution, reducing insertion loss for increased link reach

EDGE™ solutions-based footprint

Integrates seamlessly into an existing EDGE solutions infrastructure

Universal polarity management

Eliminates the frustration of needing to flip connector pairs or modules

Application defined split ratio

Provides 50/50 split ratio for Ethernet (DC LAN) and 70/30 split ratio for Fibre Channel (DC SAN) environments



EDGE Tap Modules | Photo REN3557 and REN3559

EDGE Tap Module Specifications

| Part Number | Fiber Type | Split Ratio | Splitter Loss (dB) Live/TAP | LC Connector Loss (dB) | MTP Connector Loss (dB) | Tap Module's Live Link Loss (dB) | Tap Module's Tap Link Loss (dB) |
|-------------|------------|-------------|-----------------------------|------------------------|-------------------------|----------------------------------|---------------------------------|
| ETM-5A-Q | OM4 | 50/50 | 3.8/3.8 | 0.15 | N/A | 4.1 | 4.1 |
| ETM-5A-Q-BD | OM4 | 50/50 | 3.8/3.8 | 0.15 | N/A | 4.1 | 4.1 |
| ETM-7A-Q | OM4 | 70/30 | 1.8/6.6 | 0.15 | N/A | 2.1 | 6.9 |
| ETM-5A-G | OS2 | 50/50 | 3.6/3.6 | 0.25 | N/A | 4.1 | 4.1 |
| ETM-7A-G | OS2 | 70/30 | 1.8/5.8 | 0.25 | N/A | 2.5 | 6.5 |
| ETM-5B-Q | OM4 | 50/50 | 3.8/3.8 | 0.15 | 0.35 | 4.3 | 4.5 |
| ETM-5B-Q-BD | OM4 | 50/50 | 3.8/3.8 | 0.15 | 0.35 | 4.3 | 4.5 |
| ETM-7B-Q | OM4 | 70/30 | 1.8/6.6 | 0.15 | 0.35 | 2.3 | 7.3 |
| ETM-5B-G | OS2 | 50/50 | 3.6/3.6 | 0.25 | 0.75 | 4.6 | 5.1 |
| ETM-7B-G | OS2 | 70/30 | 1.8/5.8 | 0.25 | 0.75 | 2.8 | 7.3 |
| ETM-5C-Q | OM4 | 50/50 | 3.8/3.8 | N/A | 0.35 | 4.5 | 4.5 |
| ETM-5C-Q-R | OM4 | 50/50 | 3.8/3.8 | N/A | 0.35 | 4.5 | 4.5 |
| ETM-7C-Q | OM4 | 70/30 | 1.8/6.6 | N/A | 0.35 | 2.5 | 7.3 |
| ETM-7C-Q-R | OM4 | 70/30 | 1.8/6.6 | N/A | 0.35 | 2.5 | 7.3 |
| ETM-5C-G | OS2 | 50/50 | 3.6/3.6 | N/A | 0.75 | 5.1 | 5.1 |
| ETM-5C-G-R | OS2 | 50/50 | 3.6/3.6 | N/A | 0.75 | 5.1 | 5.1 |
| ETM-7C-G | OS2 | 70/30 | 1.8/5.8 | N/A | 0.75 | 3.3 | 7.3 |
| ETM-7C-G-R | OS2 | 70/30 | 1.8/5.8 | N/A | 0.75 | 3.3 | 7.3 |

Multimode losses are for 850 nm.

Single-mode losses are for 1310 nm.

EDGE™ Solutions

LC Duplex to LC Duplex Tap Modules

EDGE™ LC duplex to LC duplex Tap modules enable port monitoring access for traditional LC duplex systems. These modules allow the customer to manage the monitoring ports via the jumper infrastructure at the front of the cabinets.

LC duplex to LC duplex Tap modules feature two red LC duplex adapters for tapping and four aqua or blue LC duplex adapters for live ports. These modules are also available for BiDi applications with two duplex adapters for tapping and two duplex adapters for live ports.



| Part Number | Description | Units per Delivery |
|-------------|---|--------------------|
| ETM-5A-Q | EDGE Tap Module, 50 µm multimode (OM4), 50/50 split ratio (live/tap), 12-fiber LC duplex ports; four aqua LC duplex adapters and two red LC duplex ports at the front of the module. Enables monitoring of two ports. | 1/1 |
| ETM-5A-Q-BD | EDGE Tap Module, 50 µm multimode (OM4), 50/50 split ratio (live/tap), 8-fiber LC duplex ports; two aqua LC duplex adapters and two red LC duplex ports at the front of the module. Enables monitoring of one port for BiDi links. | 1/1 |
| ETM-7A-Q | EDGE Tap Module, 50 µm multimode (OM4), 70/30 split ratio (live/tap), 12-fiber LC duplex ports; four aqua LC duplex adapters and two red LC duplex ports at the front of the module. Enables monitoring of two ports. | 1/1 |
| ETM-5A-G | EDGE Tap Module, single-mode (OS2), 50/50 split ratio (live/tap), 12-fiber LC duplex ports; four blue LC duplex adapters and two red LC duplex ports at the front of the module. Enables monitoring of two ports. | 1/1 |
| ETM-7A-G | EDGE Tap Module, single-mode (OS2), 70/30 split ratio (live/tap), 12-fiber LC duplex ports; four blue LC duplex adapters and two red LC duplex ports at the front of the module. Enables monitoring of two ports. | 1/1 |

EDGE™ Solutions

MTP® to LC Duplex Tap Modules

EDGE™ MTP® to LC duplex Tap modules are designed for parallel optic infrastructure, for Ethernet duplex applications up to 100G, and Fibre Channel duplex applications up to 32G.

MTP to LC duplex Tap modules have one pinned MTP adapter labeled LIVE and one pinned red MTP adapter labeled Tap on the rear side, which enables monitoring of six LIVE LC duplex ports on the front side. MTPs on the rear side allow for easy Tap link integration into the infrastructure.



MTP to LC Duplex Multimode Tap Module
| Photo REN3557



MTP to LC Duplex Single-Mode Tap Module
| Photo REN3565



MTP to LC Duplex BiDi Tap Module
| Photo REN3552

| Part Number | Description | Units per Delivery |
|-------------|--|--------------------|
| ETM-5B-Q | EDGE Tap Module, 50 µm multimode (OM4), 50/50 split ratio (live/tap), 12-fiber LC duplex ports, one pinned MTP adapter labeled Live, one pinned red MTP adapters labeled Tap, enables monitoring of six ports. | 1/1 |
| ETM-5B-Q-BD | EDGE Tap Module, 50 µm multimode (OM4), 50/50 split ratio (live/tap), 12-fiber LC duplex ports, one pinned MTP adapter labeled Live, two pinned red MTP adapters labeled Tap, enables monitoring of six ports for BiDi links | 1/1 |
| ETM-7B-Q | EDGE Tap Module, 50 µm multimode (OM4), 70/30 split ratio (live/tap), 12-fiber LC duplex ports; one pinned MTP adapter labeled Live, one pinned red MTP adapters labeled Tap, enables monitoring of six ports. | 1/1 |
| ETM-5B-G | EDGE Tap Module, single-mode (OS2), 50/50 split ratio (live/tap), 12-fiber LC duplex ports; one pinned MTP adapter labeled Live, one pinned red MTP adapters labeled Tap, enables monitoring of six ports. | 1/1 |
| ETM-7B-G | EDGE Tap Module, single-mode (OS2), 70/30 split ratio (live/tap), 12-fiber LC duplex ports; one pinned MTP adapter labeled Live, one pinned red MTP adapters labeled Tap, enables monitoring of six ports. | 1/1 |

EDGE™ Solutions

MTP® to MTP Connector Tap Modules

EDGE™ MTP® to MTP Tap modules are designed for parallel optic infrastructure, for Ethernet 40G and 100G applications, and Fibre Channel applications 32G and beyond.

MTP to MTP Tap modules provide two options to connect the monitoring equipment from the front or rear of the rack to support duplex or parallel optic deployments.



MTP to MTP Multimode Tap Module | Photo REN3559



MTP to MTP Single-Mode Tap Module | Photo REN3571

| Part Number | Description | Units per Delivery |
|-------------|---|--------------------|
| ETM-5C-Q | EDGE Tap Module, 50 µm multimode (OM4), 50/50 split ratio (live/tap), 12-fiber MTP ports; one pinned MTP adapter labeled Live and one pinned red MTP adapter labeled Tap at the front of the module, one pinned MTP adapter labeled Live at the rear of the module. Enables monitoring of six duplex or one parallel port(s). | 1/1 |
| ETM-7C-Q | EDGE Tap Module, 50 µm multimode (OM4), 70/30 split ratio (live/tap), 12-fiber MTP ports; one pinned MTP adapter labeled Live and one pinned red MTP adapter labeled Tap at the front of the module, one pinned MTP adapter labeled Live at the rear of the module. Enables monitoring of six duplex or one parallel port(s). | 1/1 |
| ETM-5C-G | EDGE Tap Module, Single-mode (OS2), 50/50 split ratio (live/tap), 12-fiber MTP ports; one pinned MTP adapter labeled Live and one pinned red MTP adapter labeled Tap at the front of the module, one pinned MTP adapter labeled Live at the rear of the module. Enables monitoring of six duplex or one parallel port(s). | 1/1 |
| ETM-7C-G | EDGE Tap Module, Single-mode (OS2), 70/30 split ratio (live/tap), 12-fiber MTP ports; one pinned MTP adapter labeled Live and one pinned red MTP adapter labeled Tap at the front of the module, one pinned MTP adapter labeled Live at the rear of the module. Enables monitoring of six duplex or one parallel port(s). | 1/1 |
| ETM-5C-Q-R | EDGE Tap Module, 50 µm multimode (OM4), 50/50 split ratio (live/tap), 12-fiber MTP ports; one pinned MTP adapter labeled at the front of the module, one pinned MTP adapter labeled Live and one pinned red MTP adapter labeled Tap at the rear of the module. Enables monitoring of six duplex or one parallel port(s). | 1/1 |
| ETM-7C-Q-R | EDGE Tap Module, 50 µm multimode (OM4), 70/30 split ratio (live/tap), 12-fiber MTP ports; one pinned MTP adapter labeled Live at the front of the module, one pinned MTP adapter labeled Live and one pinned red MTP adapter labeled Tap at the rear of the module. Enables monitoring of six duplex or one parallel port(s). | 1/1 |
| ETM-5C-G-R | EDGE Tap Module, Single-mode (OS2), 50/50 split ratio (live/tap), 12-fiber MTP ports; one pinned MTP adapter labeled Live at the front of the module, one pinned MTP adapter labeled Live and one pinned red MTP adapter labeled Tap at the rear of the module. Enables monitoring of six duplex or one parallel port(s). | 1/1 |
| ETM-7C-G-R | EDGE Tap Module, Single-mode (OS2), 70/30 split ratio (live/tap), 12-fiber MTP ports; one pinned MTP adapter labeled Live at the front of the module, one pinned MTP adapter labeled Live and one pinned red MTP adapter labeled Tap at the rear of the module. Enables monitoring of six duplex or one parallel port(s). | 1/1 |

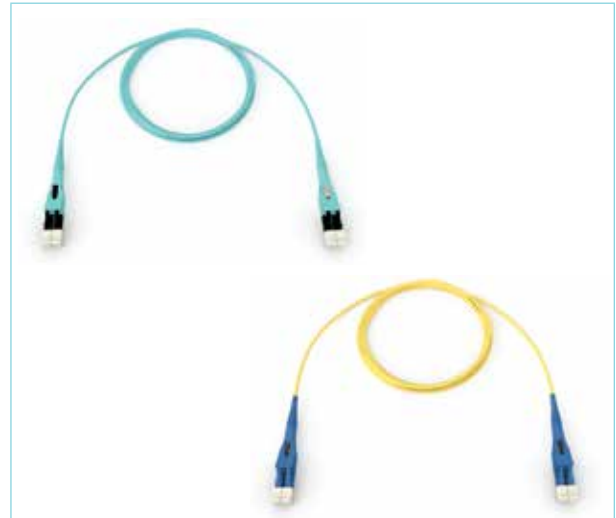
EDGE™ Solutions

Reverse Polarity Uniboot Duplex Jumpers

EDGE™ reverse polarity uniboot duplex jumpers allow for quick-and-easy conversion from a TIA-568 A-B polarity to a TIA-568 A-A polarity without exposing the fibers or needing any tools. This jumper comes with a straight-through polarity from the factory, but you can convert it to a flipped jumper with no tools. This uniboot design allows one cable to carry both fibers, reducing jumper bulk when routing.

Features

- Slim round 2-fiber interconnect cable
- Uniboot-style duplex connectors
- Improved handling in high-density applications
- Low-loss connectivity enables system design flexibility
- Enabled by bend-sensitive Corning® ClearCurve® multimode or Corning® SMF-28e® Ultra single-mode fibers
- Designed to withstand tight bends and challenging cable routes



Reverse Polarity Uniboot Duplex Jumpers
| Photo REN6462 and REN6461

LC Uniboot Jumper Specifications

| Connector | Connector Code | Typical Connector Attenuation (dB) | Return Loss (dB) |
|-------------------|----------------|------------------------------------|------------------|
| MM LC uniboot | 79 | 0.10 | ≤ 26 |
| SM LC UPC uniboot | 78 | 0.25 | ≤ 55 |
| SM LC APC uniboot | 80 | 0.25 | ≤ 65 |

Ordering Information

| | | | | | | | | | | | |
|----------------------|----------------------|----------------------|-----|----------------------|---|----------------------|-----|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | 0 2 | <input type="text"/> | D | <input type="text"/> | 2 0 | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 1 | 2 | 3 | | 4 | | | | 5 | | | 6 |

1 Select connector one type.

- 79 = Multimode LC uniboot (OM3/OM4/OM5)
- 78 = Single-mode LC UPC uniboot (OS2)
- 80 = Single-mode LC APC uniboot (OS2)

2 Select connector two type.

- 79 = Multimode LC uniboot (OM3/OM4/OM5)
- 78 = Single-mode LC UPC uniboot (OS2)
- 80 = Single-mode LC APC uniboot (OS2)

3 Select fiber type.

- T = 50 μm multimode (OM3)
- Q = 50 μm multimode (OM4)
- V = 50 μm wideband multimode (OM5)
- G = Single-mode Ultra (OS2)

4 Select flame rating.

- 1 = Riser
- 8 = Plenum

5 Select length.

001-250 (tip-to-tip)

6 Select unit of measure.

- F = Feet
- M = Meters

EDGE™ Solutions

Reverse Polarity LC Duplex Clips

All reverse polarity uniboot LC duplex connectors come with a removable clip. We offer a total of 12 colors to allow for easy link identification or fabric segmentation.



Ordering Information

TRIGGER-BP-U- **1**


1 Select color.

- N = Blue
- E = Orange
- G = Green
- W = White
- C = Slate
- R = Red
- B = Black
- Y = Yellow
- V = Violet
- P = Rose
- A = Aqua
- K = Beige

Note: Must order in multiples of 100.







EDGE™ Solutions

Housing Accessories



| Part Number | Product Description | Units per Delivery | |
|-------------------|---|--------------------|---|
| PC1-BKT-23 | EDGE™ Extension and Flush-Mount Bracket for mounting 1U housings into 23-in racks or cabinets | 1/1 |  |
| PC2-BKT-23 | EDGE Extension and Flush-Mount Bracket for mounting 2U housings into 23-in racks or cabinets | 1/1 |  |
| PC4-BKT-23 | EDGE Solutions Mounting Bracket for mounting 4U housings into 23-in racks or cabinets | 1/1 |  |
| EDGE-EMOD-STRN | EDGE Solutions Strain-Relief Bracket, EMOD, 1U | 1/1 |  |
| EDGE-CDF-RJ04-BKT | EDGE Solutions Strain-Relief Bracket, accommodating four EDGE solutions clip parking positions | 1/1 |  |
| EDGE-CDF-RJ08-BKT | EDGE Solutions Strain-Relief Bracket, accommodating eight EDGE solutions clip parking positions | 1/1 |  |
| EDGE-CDF-RJ12-BKT | EDGE Solutions Strain-Relief Bracket, accommodating 12 EDGE solutions clip parking positions | 1/1 |  |
| EDGE-BKT-WT-2RU | Wire Tray Mounting Bracket for up to 2U of housing mounting space | 1/1 |  |
| EDGE-BKT-WT-4RU | Wire Tray Mounting Bracket for up to 4U of housing mounting space | 1/1 |  |

EDGE™ Solutions

Housing Accessories

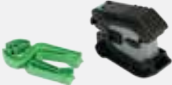
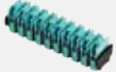
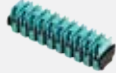


| Part Number | Product Description | Units per Delivery | |
|-------------------|---|--------------------|---|
| EDGE-BKT-LR-2RU | Ladder Rack Mounting Bracket for up to 2U of housing mounting space | 1/1 |  |
| EDGE-BKT-LR-4RU | Ladder Rack Mounting Bracket for up to 4U of housing mounting space | 1/1 |  |
| CJP-01U-P | Pretium™ Jumper Management Panel 1U; provides jumper management in a 1.75-in rack space | 1/1 |  |
| CJP-02U-P | Pretium Jumper Management Panel 2U; provides jumper management in a 3.5-in rack space | 1/1 |  |
| EDGE-01U-FLSH-BKT | EDGE™ Extension and Flush-Mount Bracket for EDGE-01U | 1/1 |  |
| EDGE-SMH-SLK | EDGE Single-Module Housing Slack Storage and Splicing Accessory, used in conjunction with the EDGE-SMH and EDGE panel in order to facilitate pigtail splicing or storage of slack beneath the EDGE single-module housing. | 1/1 |  |

Cleaning Accessories

| Part Number | Product Description | Units per Delivery | |
|-----------------|--|--------------------|---|
| CLEANER-PORT-LC | Single-Fiber Port Cleaner for LC, keyed LC, and MU connector end faces for both UPC and APC polishes | 1/1 |  |
| 2104466-01 | Fiber Optic Cleaning Tool used to clean MTP® connector end faces as well as MTP connectors installed in a module | 1/1 |  |

EDGE™ Solutions

MTP® PRO Accessories

| Part Number | Product Description | Units per Delivery | |
|-----------------------|---|--------------------|---|
| MTPPRO-TOOL | Field tool to perform pinning and polarity changes of MTP® PRO connectors | 1/1 |  |
| MTPPRO-PEX-MME-NOPINS | MTP PRO Pin Exchanger Kit, MM MTP Elite, empty (without pins) | 1/1 |  |
| MTPPRO-PEX-MME-PINS | MTP PRO Pin Exchanger Kit, MM MTP Elite, loaded (with pins) | 1/1 |  |
| MTPPRO-PEX-SME-NOPINS | MTP PRO Pin Exchanger Kit, SM MTP Elite, empty (without pins) | 1/1 |  |
| MTPPRO-PEX-SME-PINS | MTP PRO Pin Exchanger Kit, SM MTP Elite, loaded (with pins) | 1/1 |  |



Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC 28216 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

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