

Внутренние и наружные претерминированные системы EDGE, OptiTip, OptiTap Технические характеристики

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EDGE8® Solutions Introduction

Corning® ClearCurve® bend-optimized multimode and Corning® SMF-28® single-mode optical fibers are the core elements of the system, 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 a simple design and integration for LAN and SAN areas within the data center, while the preterminated components reduce installation times and enable faster moves, adds, and changes (MACs).

Our EDGE™ solutions were the industry's first preterminated optical cabling systems specifically designed for the data center environment, and the value that EDGE provides to the industry continues to be proven. Density, network uptime, speed, simplicity, and a clear migration path to meet future requirements ... EDGE addresses it all. However, switch and transceiver technology road maps clearly indicate that transmission speeds ranging from 1G to 400G will be based on either 2-fiber (Base-2) or 8-fiber (Base-8) connectivity solutions.

That's the motivation behind EDGE8® solutions. All of the value of our original EDGE solutions, with the added superior network scalability, improved link performance, and 100% fiber utilization of a Base-8 design.

EDGE8 solutions strengthen your data center in three key areas:

- increased asset utilization with reduced jumper complexity and the elimination of stranded cabling assets
- technology adoption due to 100% fiber utilization — without the need for conversion modules — improving the link performance while reducing costs
- risk avoidance, providing a simple and clear path to 40G, 100G, and 400G

All EDGE8 solutions products, with the exception of tap modules, 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 an optimized dust cap engineered to maintain the end face cleanliness until the first mating connection. CleanAdvantage technology eliminates the need for scoping and cleaning prior to the initial field connection, reducing installation time and cost.



EDGE8® Solutions Overview

EDGE8® solutions are Base-8, high-density preterminated optical cabling solutions offering the most future-ready solution to support 40G, 100G, and 400G transmission requirements. With all the benefits of the Corning EDGE™ solution, EDGE8 offers superior network scalability and improved link performance.



EDGE8 Solutions

Features and Benefits

8-fiber MTP® connectors

Base-8 configuration allows for seamless migration to data rates of 40 and above.

Removeable covers on the 1U and 2U housings

Provides easier access to modules and panels.

EDGE™ reverse polarity uniboot jumpers

Enables quick and easy polarity management.

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.

Strap-in strain-relief clips

Provides easier cable management.

MTP PRO Connector and Push-Pull Boot

Allows for pinning and polarity changing in the field while enabling easier mating and unmating in extremely dense applications.

MTP assemblies with reduced footprint and cable OD

Reduces congestion in high-connectivity environment.

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

Improves airflow and reduces 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.

Connected Mated Pair – Ultra Low Loss		
	Insertion Loss, Maximum OM3/OM4/OM5	OS2
LC Connector	0.10 dB	0.25 dB
MTP Connector	0.25 dB	0.35 dB

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

Modules/Harnesses – Ultra Low Loss		
	Insertion Loss, Maximum OM3/OM4/OM5	OS2
Component Value	0.35 dB	0.6 dB

Optical Distribution Frames

The 19-inch optical distribution frames (ODF) are optimized for high-density, cross-connect applications. When fully loaded with EDGE™ 4U housings, the dual frame provides a total capacity of 5,760 LC duplex or 11,520 MTP® ports. When the single frame is used, it provides total capacity of 2,880 LC duplex or 5,760 MTP ports.

The frame has been designed with modular jumper management plates and segmented jumper management hubs. A single 4-meter jumper length allows patching from any port to any other port on the dual- or single-frame configuration. Gravity-managed slack storage ensures single jumpers can be added or removed in less than 2 minutes when fully populated.

Additional accessories, like cable routing channels, front doors, back doors, and side panels are available to improve containment, aesthetics, cleanliness, and security.

Features and Benefits

Modular construction

Frame can be quickly assembled by a single installer. Easily scalable to dual- or quad-frame configurations.

One-jumper configuration

A single 4-meter jumper length allows patching from any port to any other port.

Cable and trunk strain-relief kits

Easy routing, dressing, and strain-relief for optical cables or preterminated trunks.

Additional bottom-channel kit available

Route fibers at the bottom of cabinet frame, no need for dedicated overhead trays.



Corning Optical Distribution Frame | Photo REN7527

Corning Optical Distribution Frames

EDGE™ Optical Distribution Frames		
Part Number	Product Description	
PF2TDAFG5LCANNNN2PADQ	EDGE™ Optical Distribution Frame (ODF), left cable management, 7 ft	
PF2TDAFG5RCANNNN2PADQ	EDGE ODF, right cable management, 7 ft	
PC2TDAFG5LCAA2FA2PADQ	EDGE ODF, left cable management, 7 ft with doors	
PC2TDAFG5RCAB2FA2PADQ	EDGE ODF, right cable management, 7 ft with doors	
PF2QDACG7ZDANNNN2PFDQ	EDGE ODF, dual, 7 ft	
PC2QDACG7ZDAG7FA2PFDQ	EDGE ODF, dual, 7 ft with doors	

EDGE8® HD Housings

EDGE8® HD housings mount in 19-in racks or cabinets and provide industry-leading ultra-high-density connectivity when combined with EDGE8 modules, panels, harnesses, trunks, and jumpers.

The unique design of EDGE8 HD housings includes sliding drawers enabling module or panel installation from the front or rear of the housing. Each sliding drawer contains integrated cable routing elements to make real structured jumper management possible while providing unprecedented finger access without the need for tools or any other accessories. All EDGE8 HD housings come with additional side-routing guides for jumper integration to the cabinet. The adjustable mounting brackets provide flexible installation options for back-to-back or flush-mounting requirements, and the quick-mount feature makes it quick and easy for one person to install the housing with little effort.

The mounting and removal of trunks is a simple, quick, and tool-less operation enabling rapid deployment of high-fiber-count trunks for faster moves, adds, and changes (MACs).

Labeling the housing couldn't be easier with a full-size mounting area on the inside of the front door for the display of clear and concise information. The easily installable trunk mounting plate provides flexibility depending on your design (e.g., back-to-back) or application (e.g., reduced depth) concept.



EDGE8 High-Density Housing

EDGE8® Solutions Housing



EDGE8-01U | Photo REN457



EDGE8-01U-SP | Photo REN446



EDGE8-02U | Photo REN463



EDGE8-04U | Photo REN466

Features and Benefits

6-slot 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 trunks through side or rear cable-entry points.

Removable top covers on the 1U and 2U housings

Provides easier access to modules and panels.

Total flexibility in the same HD housing

- Accepts EDGE8® modules
- Accepts EDGE8 port breakout modules
- Accepts EDGE8 1x, 2x, and 4x MTP® adapter panels
- Accepts EDGE8 port tap modules

High-port concentration with LC duplex and MTP Base-8 system

- 1U EDGE8 Housing EDGE8-01U
48x LC duplex ports (96 fiber)
48x MTP ports (384 fiber)
- 1U EDGE8 Housing EDGE8-01U-SP
72x LC duplex ports (144 fiber)
72x MTP ports (576 fiber)
- 2U EDGE8 Housing EDGE8-02U
144x LC duplex ports (288 fiber)
144x MTP ports (1152 fiber)
- 4U EDGE8 Housing EDGE8-04U
288x LC duplex ports (576 fiber)
288x MTP ports (2304 fiber)

Ordering Information

Part Number	Height	Dimensions (W x D x H)	Packaging Dimensions (W x D x H)	Shipping Weight	Number of Panels per Housing
EDGE8-01U	1U	432 mm x 561 mm x 44 mm	584 mm x 673 mm x 191 mm	6.8 kg (15 lb)	12
EDGE8-01U-SP	1U	432 mm x 561 mm x 44 mm	581 mm x 667 mm x 197 mm	8.2 kg (18 lb)	18
EDGE8-02U	2U	432 mm x 561 mm x 88 mm	578 mm x 667 mm x 241 mm	10.4 kg (23 lb)	36
EDGE8-04U	4U	432 mm x 561 mm x 177 mm	578 mm x 667 mm x 327 mm	16.5 kg (36 lb)	72

Notes:

- When rear strain-relief plate is removed from part number EDGE8-01U-SP, product depth reduces to 14.9 in.
- EDGE-01U has sliding inner assembly. EDGE-01U-SP does not have sliding inner assembly.

EDGE8® FX Housings

EDGE8® FX housings mount in 19-in racks or cabinets and provide industry-leading high-density connectivity when combined with EDGE8 modules, panels, harnesses, trunks, and patch cables.

EDGE8 FX housings include a fixed, compact design providing module or panel deployment from the front or rear of the housing. The integrated cable routing elements of the housing make real structured patch cable management possible while providing unprecedented finger access without the need for tools or any other accessories.

All EDGE8 FX housings come with integrated side routing guides for patch cable integration to the cabinet. The adjustable mounting brackets provide flexible installation options for back-to-back or flush-mounting requirements. The new quick-mount feature makes it quick and easy for one person to install the housing with little effort.

The mounting and removal of trunks is a simple, quick, and tool-less operation enabling rapid deployment of high-fiber-count trunks for faster moves, adds, and changes (MACs).

Labeling the housing couldn't be simpler – there is a full-size mounting area on the inside of the front door for clear and concise information to be displayed. The easily installable trunk-mounting plate provides flexibility depending on your design (e.g., back-to-back) or application (e.g., reduced depth) concept.



EDGE8-04U-FP Housing | Photo REN1579

EDGE8® FX Housing

EDGE8® FX housings are available in 1U, 2U, and 4U sizes that mount in 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 allows for the back-to-back installation in 4-post racks or cabinets as well as third-party floor boxes.

Ordering Information					
Part Number	Height	Dimensions (W x D x H)	Packaging Dimensions (W x D x H)	Shipping Weight	Number of Panels per Housing
EDGE8-01U-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)	12
EDGE8-01U-EMOD-SP	1U	433 mm x 107 mm x 44.5 mm (17 in x 4.2 in x 1.75 in)	535 mm x 201 mm x 138 mm (21 in x 7.9 in x 5.4 in)	1.28kg (2.8 lb)	18
EDGE8-01U-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)	12
EDGE8-02U-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)	24
EDGE8-04U-FP	4U	432 mm x 434 mm x 178 mm (17 in x 17.1 in x 7 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)	48
EDGE8-FZB-04U	-	527 mm x 527 mm x 241 mm (20.75 in 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)	48
EDGE8-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

When rear strain-relief plate is removed, the depth reduces to 8.5-in for products EDGE-01U-FP/EDGE-02U-FP/EDGE-04U-FP. See hardware accessories for alternate strain-relief options.



EDGE8-01U-EMOD | Photo REN1454



EDGE8-01U-EMOD-SP | Photo LAN9913



EDGE8-01U-FP | Photo REN1140



EDGE8-02U-FP | Photo REN1616



EDGE8-04U-FP | Photo REN1579



EDGE8-SMH | Photo REN1973



EDGE8-FZB-04U | Photo REN1545

EDGE8® MTP® Trunks

EDGE8® MTP® trunks are preterminated cables with ultra-low-loss 8-fiber MTP PRO 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 EDGE8 solutions and Plug & Play™ systems housings.



EDGE8-02U Rear Side | Photo REN581



EDGE8 MTP to MTP Trunk | Photo REN7954

Features and Benefits

Snap-in strain-relief clips

Provides easier cable management.

Pinned MTPs on both ends

Allows for a single pinless jumper deployment in parallel optic electronics deployments.

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.

MTP PRO Connector and Push-Pull Boot

Allows for pinning and polarity changing in the field while enabling easier mating and unmating in extremely dense applications

Mechanical Characteristics					
Fiber Count	Nominal Outer Diameter	Pulling Grip Outer Diameter	Weight	Minimum Bend Radius (Installation - 15x OD)	Minimum Bend Radius (Operation - 5x OD)
Non-Armored Cable Specifications					
8	5.0 mm (± 0.3 mm)	38 mm (1.5 in)	23.5 kg/km (15.8 lb/1,000)	75 mm (2.95 in)	25 mm (0.98 in)
16	7.0 mm (± 0.3 mm)	38 mm (1.5 in)	41.1 kg/km (27.6 lb/1,000)	105 mm (4.13 in)	35 mm (1.38 in)
24	7.0 mm (± 0.3 mm)	38 mm (1.5 in)	42.1 kg/km (28.3 lb/1,000)	105 mm (4.13 in)	35 mm (1.38 in)
32	8.1 mm (± 0.3 mm)	51 mm (2.0 in)	56.1 kg/km (28.7 lb/1,000)	121.5 mm (4.78 in)	40.5 mm (1.59 in)
48	8.1 mm (± 0.3 mm)	51 mm (2.0 in)	57.6 kg/km (38.7 lb/1,000)	121.5 mm (4.78 in)	40.5 mm (1.59 in)
72	10.2 mm (± 0.3 mm)	51 mm (2.0 in)	86.1 kg/km (57.9 lb/1,000)	153 mm (6.02 in)	51 mm (2.01 in)
96	10.2 mm (± 0.3 mm)	51 mm (2.0 in)	88.4 kg/km (59.4 lb/1,000)	153 mm (6.02 in)	51 mm (2.01 in)
144	12.5 mm (± 0.3 mm)	51 mm (2.0 in)	139.4 kg/km (93.7 lb/1,000)	187.5 mm (7.38 in)	62.5 mm (2.46 in)
192	16.0 mm (± 0.3 mm)	47 mm (1.85 in)	232.6 kg/km (156.3 lb/1,000)	240.0 mm (9.45 in)	80 mm (3.15 in)
288	22.9 mm (± 0.3 mm)	47 mm (1.85 in)	393.0 kg/km (264.1 lb/1,000)	343.5 mm (13.52 in)	114.5 mm (4.51 in)

Note: Plug size information: Fiber count 8-24 = Size 1 (h = 15 mm); Fiber count 32-144 = Size 2 (h = 20 mm).

Trunk Specifications

Mechanical Characteristics					
Fiber Count	Nominal Outer Diameter	Pulling Grip Outer Diameter	Weight	Minimum Bend Radius (Installation - 15x OD)	Minimum Bend Radius (Operation - 5x OD)
Armored Cable Specifications					
8	11.3 mm (± 0.3 mm)	51 mm (2.0 in)	102.6 kg/km (68.9 lb/1000)	169.5 mm (6.67 in)	56.5 mm (2.22 in)
16	12.6 mm (± 0.3 mm)	51 mm (2.0 in)	130.9 kg/km (88.0 lb/1000)	189 mm (7.44 in)	63 mm (2.48 in)
24	12.6 mm (± 0.3 mm)	51 mm (2.0 in)	131.6 kg/km (88.4 lb/1000)	189 mm (7.44 in)	63 mm (2.48 in)
32	13.7 mm (± 0.3 mm)	51 mm (2.0 in)	154.4 kg/km (103.7 lb/1000)	205.5 mm (8.09 in)	68.5 mm (2.7 in)
48	13.7 mm (± 0.3 mm)	51 mm (2.0 in)	155.9 kg/km (104.7 lb/1000)	205.5 mm (8.09 in)	68.5 mm (2.7 in)
72	16.6 mm (± 0.3 mm)	51 mm (2.0 in)	207.7 kg/km (139.6 lb/1000)	249 mm (9.8 in)	83 mm (3.27 in)
96	16.6 mm (± 0.3 mm)	51 mm (2.0 in)	210 kg/km (141.1 lb/1000)	249 mm (9.8 in)	83 mm (3.27 in)
144	18.8 mm (± 0.3 mm)	51 mm (2.0 in)	278.6 kg/km (187.2 lb/1000)	282 mm (11.1 in)	94 mm (3.7 in)
192	23.7 mm (± 0.3 mm)	51 mm (2.0 in)	421.4 kg/km (283.1 lb/1000)	355.5 mm (14.0 in)	118.5 mm (4.67 in)
288	31.3 mm (± 0.3 mm)	76 mm (3.0 in)	646.6 kg/km (434.5 lb/1000)	469.5 mm (18.48 in)	156.5 mm (6.16 in)

Note: Plug size information: Fiber count 8-24 = Size 1 (h = 15 mm); Fiber count 32-144 = Size 2 (h = 20 mm).

Optical Performance Multimode					
	Connector Polish	End Face	Reflectance	Maximum 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	Maximum Insertion Loss	Operation
MTP Trunks	APC	Angled	≤ -65 dB	≤ 0.35 dB*	-10°C to 60°C

Trunk Shipping Information

Reel Capacities – Non-Armored Cable Specifications							
Packaging Method	Box E	Box H	Reel 1	Reel 2	Reel 3	Reel 4	Reel 5
Packaging Material	Coiled Cable	Coiled Cable	Corrugated Plastic Reel	Corrugated Plastic Reel	Corrugated Plastic Reel	Solid Plastic Reel	Solid Plastic Reel
Reel Diameter (in)			19.5	19.5	19.5	32	36
Reed Width (in)			5	10	16	20	20
Box Dimensions (in)	21 x 21 x 3.3	31 x 31.5 x 7					
Fiber Count	Maximum Length (ft)						
8	75	-	1,200	2,255	3,500	-	-
16	75	-	600	1,100	1,800	-	-
24	75	-	600	1,100	1,800	-	-
32	75	-	550	1,050	1,400	-	-
48	75	-	550	1,050	1,400	-	-
72	75	-	300	600	999	-	-
96	75	-	300	600	999	-	-
144	75	-	200	400	700	2,638	-
192	-	66	-			1,610	2,473
288	-	66	-			786	1,207

Note: Trunks under 75 ft are packaged in a cardboard box and not on a reel.
Note: Packaging for longer length trunks available upon request.

Reel Capacities – Armored Cable Specifications					
Packaging Method	Box H	Reel 4	Reel 5	Reel 7	Reel 8
Packaging Material	Coiled Cable	Solid Plastic Reel	Solid Plastic Reel	Plywood Reel	Plywood Reel
Reel Diameter (in)		32	32	41	48
Reed Width (in)		20	20	32	35.5
Box Dimensions (in)	31 x 31.5 x 7				
Fiber Count	Maximum Length (ft)				
8	50	3,228	-	-	-
16	50	2,596	-	-	-
24	50	2,596	-	-	-
32	50	2,196	-	-	-
48	50	2,196	-	-	-
72	50	1,496	-	-	-
96	50	1,496	-	-	-
144	50	1,166	1,791	-	-
192	30	734	1,127	-	-
288	30	-	-	265	1,550

Note: Trunks under 50 ft are packaged in a cardboard box and not on a reel.
Note: Packaging for longer length trunks available upon request.

EDGE8® MTP® Trunks Cables

EDGE8® MTP® trunks provide the backbone of the EDGE8 solution. With 8-fiber pinned MTP PRO connectors on both ends, these trunks are designed to interface with the EDGE8 universal modules or adapter panels for parallel optic applications. All MTP trunks are manufactured with Corning® CleanAdvantage™ technology 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.



EDGE8 8-Fiber MTP Trunk Cable | Photos REN7793 and REN7794

Ordering Information

*

D

1

2

3

4

5

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7

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9

10

11

**For custom labels, add the letter "L" as prefix to the part number e.g., LGE5E548QPNDUxxxF
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 PRO connector.

(end one on outside of reel).
E5 = MTP 8 F (pinned) multimode
E7 = MTP 8 F (pinned) single-mode
00 = Pigtail (*Only available with P = straight-through polarity*)
- 3

Select MTP PRO connector.

(end two on inside of reel).
E5 = MTP 8 F (pinned) multimode
E7 = MTP 8 F (pinned) single-mode
- 4

Select standard fiber count.

08 = 8 fiber 72 = 72 fiber
16 = 16 fiber 96 = 96 fiber
24 = 24 fiber E4 = 144 fiber
32 = 32 fiber K2 = 192 fiber
48 = 48 fiber U8 = 288 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

Furcation legs are color-coded by fiber type.
- 8

Defines leg length.

(end two on inside of reel).
D = 33 in (+3.5/-1.0 in)*

Furcation legs are color-coded by fiber type.
- 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.

EDGE8® MTP® Extender Trunks Cables

EDGE8® MTP® extender trunks provide additional distance for the backbone of the EDGE8 solution. With a non-pinned MTP PRO connector on one end, a pinned MTP connector on the other, and a TIA-568 Type-A polarity, these trunks are designed to interface with an EDGE8 solutions universal module and an EDGE8 MTP trunk. All extender trunks are manufactured with Corning® CleanAdvantage™ 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).



EDGE8 8-Fiber MTP Extender Trunk Cable | Photo REN7793

Ordering Information

						D	C	X		
1	2	3	4	5	6	7	8	9	10	11

- 1

Select grip.
G = Grip on first end only
Z = No grip
- 2

Select MTP PRO connector.
(end one on outside of reel).
E5 = MTP 8 F (pinned) multimode
E7 = MTP 8 F (pinned) single-mode
- 3

Select MTP PRO connector.
(end two on inside of reel).
E6 = MTP 8 F (non-pinned) multimode
E8 = MTP 8 F (non-pinned) single-mode
- 4

Select standard fiber count.
08 = 8 fiber 72 = 72 fiber
16 = 16 fiber 96 = 96 fiber
24 = 24 fiber E4 = 144 fiber
32 = 32 fiber K2 = 192 fiber
48 = 48 fiber U8 = 288 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 one on outside of reel).
D = 33 in (+3.5/-1.0 in)
- 8

Defines leg length.
(end two on inside of reel).
C = 60 in (+3.5/-1.0 in)

Mates with trunk (long leg reaches from rear to the front side of housing)
- 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

Hybrid MTP® to LC Uniboot Trunks

EDGE8® MTP® to LC uniboot hybrid trunks combine pinned MTP PRO connectors, which connect to EDGE8 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.



EDGE8 Hybrid MTP to LC Uniboot Trunk | Photo REN7797

Ordering Information

					PN	D		W		
1	2	3	4	5	6	7	8	9	10	11

- 1

Select grip.
G = Grip on one end
Z = No grips
- 2

Select MTP PRO connector.
(end one on outside of reel).
E5 = MTP 8 F (pinned) multimode
E7 = MTP 8 F (pinned) single-mode
- 3

Select LC connector.
(end two on inside of reel).
79 = LC uniboot multimode
78 = LC uniboot single-mode
- 4

Select fiber count.
08 = 8 fiber 48 = 48 fiber
16 = 16 fiber 72 = 72 fiber
24 = 24 fiber 96 = 96 fiber
32 = 32 fiber E4 = 144 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
- 7

Defines leg length.
(end one on outside of reel)
D = 33 in (+3.5/-1.0 in)
- 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

Hybrid MTP® to LC Uniboot Extender Trunks

EDGE8® MTP® to LC uniboot hybrid extender trunks combine non-pinned MTP PRO 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 and shipped with strain-relief clips to allow easy tool-less installation.



EDGE8 Hybrid MTP to LC Uniboot Extender Trunk | Photo REN7797

Ordering Information

					PN	C		Z		
1	2	3	4	5	6	7	8	9	10	11

- 1

Select grip.
G = Grip on one end
Z = No grips
- 2

Select MTP PRO connector.
(end one on outside of reel).
E6 = MTP 8 F (non-pinned) multimode
E8 = MTP 8 F (non-pinned) single-mode
- 3

Select LC connector.
(end two on inside of reel).
79 = LC uniboot multimode
78 = LC uniboot single-mode
- 4

Select fiber count.
08 = 8 fiber 48 = 48 fiber
16 = 16 fiber 72 = 72 fiber
24 = 24 fiber 96 = 96 fiber
32 = 32 fiber E4 = 144 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
- 7

Defines leg length.
(end one on outside of reel).
C = 60 in (+3.5/-1.0 in)
- 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.
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

EDGE8® MTP® to MTP Jumper

The EDGE8® 8-fiber MTP® jumper allows for seamless migration to higher data rates in the data center when used in conjunction with EDGE8 pinned trunks. This EDGE8 MTP assembly has the same connector size and cable footprint as duplex LC jumpers used today. The density, airflow, and cable management advantages of EDGE8 solutions are preserved as you migrate to higher data rates.

Assemblies are built utilizing MTP PRO connectors. 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.

The EDGE8 MTP jumper is manufactured with Corning® CleanAdvantage™ technology and shipped with optimized dust caps, eliminating the need for cleaning and scoping prior to initial field connection.



EDGE8 MTP Jumper | Photos REN7928 and REN7927

Ordering Information

*J

08

E8

-

N

1

2

3

4

5

6

7

8

**For custom labels, add the letter "L" as prefix to the part number e.g. LJE6E608QE8-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.

E5 = MTP 8 F (pinned) multimode

E6 = MTP 8 F (non-pinned) multimode

E7 = MTP 8 F (pinned) single-mode

E8 = MTP 8 F (non-pinned) single-mode
- 2

Select MTP PRO connector.

E5 = MTP 8 F (pinned) multimode

E6 = MTP 8 F (non-pinned) multimode

E7 = MTP 8 F (pinned) single-mode

E8 = MTP 8 F (non-pinned) single-mode
- 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

Defines jumper.

N = Jumper, no furcation
- 6

Select polarity.

A = Type-A

B = Type-B

Note: For jumper polarity, reference AEN156.
- 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: Non-pinned jumpers should be used to mate to pinned EDGE8 trunks.

For custom labels, add the letter "L" as prefix to the part number e.g. LJE6E608QE8-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.

EDGE8® Harnesses

One of the critical challenges facing data center owners, operators, and maintenance personnel in high-density (HD) computing areas is providing high-port concentration deployments to support the latest generation of high-speed switches without losing them under a mass of jumpers. All EDGE8® harnesses are manufactured with Corning® CleanAdvantage™ technology and an optimized dust cap, eliminating the need for scoping and cleaning prior to initial field connection.

An EDGE8 harness is an ultra-slim 8-fiber (2.0 mm) preterminated cable with an MTP® PRO connector on one end and four LC duplex connectors on the other. The majority of the harness is a single cable which breaks out into four, 2-fiber legs to enable connectivity to the switch ports which are staggered to 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.

Features and Benefits

Slim, round 2-fiber interconnect cable

Improves airflow and reduces congestion.

MTP PRO Connector and Push-Pull Boot

Allows for pinning and polarity changing in the field while enabling easier mating and unmating in extremely dense applications.

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 with optimized dust cap

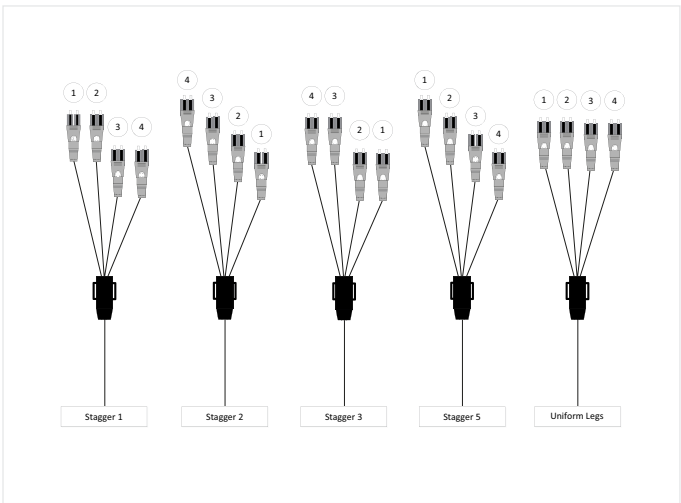
Eliminates the need for scoping and cleaning prior to initial field connection.



EDGE8 Staggered Harness MM and SM | Photos REN7930 and REN7959



EDGE8 Non-Staggered Harness MM | Photo REN7931



EDGE8 Staggered Harness Examples | Photo ZA4253

EDGE8® MTP® to LC Uniboot Staggered Harnesses

EDGE8® MTP® to LC uniboot staggered harnesses provide breakout from 8-fiber MTP® PRO connectors to LC uniboot connectors. These harnesses are available in five staggered configurations to meet various port replication needs.



EDGE8 Staggered Harness MM | Photo REN7930

Ordering Information

H					08		PH	-						
	1	2			3	4			5	6		7		8

- 1

Select MTP PRO connector.

E5 = MTP 8 F (pinned) multimode
E6 = MTP 8 F (non-pinned) multimode
E7 = MTP 8 F (pinned) single-mode
E8 = MTP 8 F (non-pinned) single-mode
- 2

Select the breakout connector type.

79 = LC uniboot multimode
78 = LC uniboot single-mode

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).

1 = Type 1 Stagger
2 = Type 2 Stagger
3 = Type 3 Stagger
4 = Type 4 Stagger (uniform)
5 = Type 5 Stagger

Note: For harness stagger type, reference AEN157.
- 6

Select harness polarity.

A = Type-A
B = Type-B

Note: For harness polarity, reference AEN156.
- 7

Select harness length.

003-020 ft
(1 ft increments measured from plug to MTP, does not include LC stagger)

001-060 m
(1 m increments measured from plug to MTP, does not include LC stagger)
- 8

Select unit of measure.

F = Feet
M = Meters

An EDGE8 **harness** should have **type-A polarity** and a **non-pinned MTP PRO** connector when connecting to a **trunk**.
An EDGE8 **harness** should have **type-B polarity** and a **pinned MTP PRO** connector when connecting to a **module**.

EDGE8® MTP® to LC Uniboot Non-Staggered Harnesses

EDGE8® MTP® to LC Uniboot non-staggered harnesses provide breakout from 8-fiber MTP® PRO connectors to LC uniboot connectors. These harnesses come with non-staggered legs in several length options.



EDGE8 Non-Staggered Harness | Photo REN7931

Ordering Information

H					08		PH	-						
	1	2			3	4			5	6		7		8

- 1

Select MTP PRO connector.

E5 = MTP 8 F (pinned) multimode
E6 = MTP 8 F (non-pinned) multimode
E7 = MTP 8 F (pinned) single-mode
E8 = MTP 8 F (non-pinned) single-mode
- 2

Select the breakout connector type.

79 = LC uniboot multimode
78 = LC uniboot single-mode

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 code by fiber type.
- 6

Select harness polarity.

A = Type-A
B = Type-B

Note: For harness polarity, reference AEN156.
- 7

Select 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.

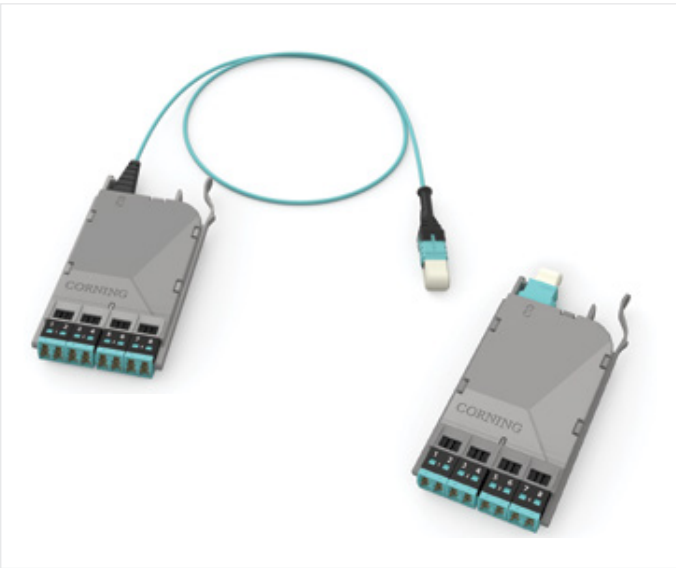
F = Feet
M = Meters

An EDGE8 harness should have **type-A polarity** and a **non-pinned MTP PRO** connector when connecting to a **trunk**.
An EDGE8 harness should have **type-B polarity** and a **pinned MTP PRO** connector when connecting to a **module**.

EDGE8® Modules

EDGE8® modules provide the interface between the MTP® connector on the trunk and the LC duplex jumpers that connect directly into the electronics or as a cross-connect in the main distribution area (MDA). LC duplex adapters on EDGE8 modules feature hinged visual-fault-locator (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 damage.

All EDGE8 modules can be installed from the front or the rear of any EDGE8 solutions housing using a simple release mechanism, eliminating the need for any tools. In addition, the shutters are VFL compatible to allow easy port identification while diffusing the VFL light to ensure adequate eye safety.



EDGE8 Modules | Photos REN7932 and REN6575

Features and Benefits

VFL-compatible shuttered LC adapters

Creates one-hand operation and decreases time needed to test and troubleshoot a link.

Front- and rear-loading capability

Decreases the time to prepare and install modules into fiber housings.

High density

Modules enable 576 fibers in a 4U housing and 144 fibers in a 1U housing.

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 dust cap

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

MTP PRO Connector and Push-Pull Boot

Allows for pinning and polarity changing in the field while enabling easier mating and unmating in extremely dense applications.

Optical Performance				
	Connector Type	Module Insertion Loss, Maximum	Fiber Category	Adapter Color Front
Multimode Modules	PC	0.35 dB	50 µm MM (OM4/OM5)	Aqua
Single-Mode Modules	UPC	0.60 dB	SM (OS2)	Blue

EDGE8® MTP® to LC Duplex Module

EDGE8® modules provide an interface between 8-fiber MTP® connectors and LC duplex connectors. The internal wiring of the module is based on universal polarity to ensure the correct fiber polarity throughout the entire system, independent of how many modules are implemented within the link. Ultra-low-loss connectivity enables design flexibility to permit multiple potential connections within the system (e.g., 6-module link).

These modules breakout 8-fiber MTP terminations from the rear into 4x LC duplex connectivity at the front. The VFL-compatible shuttered adapters provide reliable dust protection without the need for dust caps and allow for easy fiber identification. All EDGE8 modules are manufactured with Corning® CleanAdvantage™ technology and an optimized dust cap, eliminating the need for cleaning before initial field connection.

EDGE8 MTP to LC duplex modules are easily swappable with MTP panels to accommodate changing requirements while leaving the trunk cable infrastructure in place. This also supports migration to MTP ports for parallel optics.



EDGE8 MTP to LC Duplex Module | Photo REN6575

Ordering Information

ECM8 - 08 - - - ULL

1

2

3

4

5

- 1

Select polarity.
UM = Universal polarity
RM = Straight-through
- 2

Defines fiber count.
08 = 8 fibers
- 3

Select adapters on module front.
05 = Shuttered LC duplex multimode
04 = Shuttered LC UPC duplex single-mode
18 = Shuttered LC APC duplex single-mode
- 4

Select MTP adapter on the back of the module.
E6 = MTP 8 F (non-pinned) multimode
E8 = MTP 8 F (non-pinned) single-mode

Other pinning configurations available upon request.
- 5

Select fiber type.
Q = 50 μm multimode (OM4)
V = 50 μm wideband multimode (OM5)
G = Single-Mode Ultra (OS2)

EDGE™ Base-8 MTP® to LC Duplex Modules

The Base-8 MTP® to LC duplex module is an 8-fiber module in the standard EDGE™ module footprint. This solution is well suited for customers who want to migrate to an 8-fiber solution, while still utilizing an existing EDGE footprint.

These modules breakout 8-fiber MTP terminations from the rear into 4x LC duplex connectivity at the front. They easily integrate into existing EDGE (Base-12) housings or hardware. The VFL-compatible shuttered adapters provide reliable dust protection without the need for dust caps and allow for easy fiber identification. All EDGE8® modules are manufactured with Corning® CleanAdvantage™ technology and an optimized dust cap, eliminating the need for cleaning before initial field connection.



EDGE Base-8 MTP to LC Duplex Module | Photo REN6520

Ordering Information

ECM12 - 08 - - - ULL

1

2

3

4

5

- 1

Select polarity.
UM = Universal polarity
RM = Straight-through
- 2

Defines fiber count.
08 = 8 fibers
- 3

Select adapters on module front.
05 = Shuttered LC duplex multimode
04 = Shuttered LC UPC duplex single-mode
18 = Shuttered LC APC duplex single-mode
- 4

Select MTP adapter on the back of the module.
E6 = MTP 8 F (non-pinned) multimode
E8 = MTP 8 F (non-pinned) single-mode

Other pinning configurations available upon request.
- 5

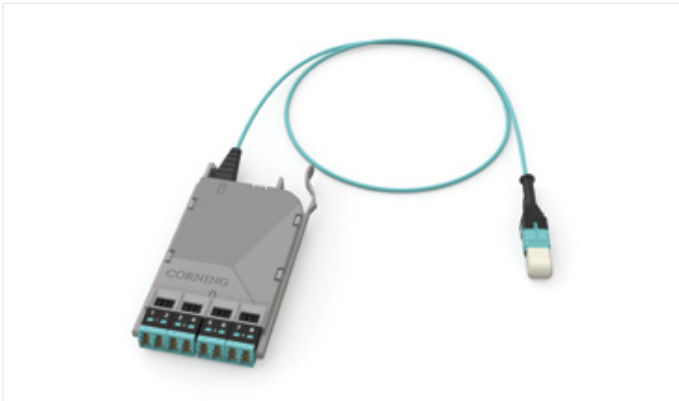
Select fiber type.
Q = 50 μm multimode (OM4)*
G = Single-Mode Ultra (OS2)

*Compatible with wideband (OM5) solutions.

EDGE8® Port Breakout Module

The EDGE8® port breakout module with MTP® PRO connector enables conversion from a single 4-channel parallel optic port (such as 40GSR4, QSFP) to a patch panel representation with four LC duplex ports for use in a main distribution area. Typically, the MTP tail will connect to the active electronics and breakout the 8-fiber QSFP 40G transceiver into 4x 2-fiber 10G LC duplex connections.

These modules breakout 8-fiber MTP terminations from the rear into 4x LC duplex connectivity at the front. The VFL-compatible shuttered adapters provide reliable dust protection without the need for dust caps and allow for easy fiber identification. All EDGE8 modules are manufactured with Corning® CleanAdvantage™ technology and an optimized dust cap, eliminating the need for cleaning before initial field connection.



EDGE8 Port Breakout Module | Photo REN7932

Ordering Information

E

C

M

8

-

-

E

8

B

-

1

2

3

4

5

6

7

1

Select adapters on module front.

05 = Shuttered LC duplex multimode
04 = Shuttered LC UPC duplex single-mode
18 = Shuttered LC APC duplex single-mode

LCs are universally wired.

2

Select MTP PRO connector.

E6 = MTP 8 F (non-pinned) multimode
E8 = MTP 8 F (non-pinned) single-mode

Other pinning configurations available upon request.

3

Select fiber type.

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

4

Defines cable type.

E8 = Plenum, interconnect

5

Define polarity.

B = Type-B

6

Select cable length.

003-075 ft
(1 ft increments measured from furcation plug to furcation plug)

001-025 m
(1 m increments measured from furcation plug to furcation plug)

7

Select unit of measure.

F = Feet
M = Meters

EDGE8® Front-Access Breakout Module

The EDGE8® front-access breakout module will typically connect to the active electronics via a jumper or harness, and breakout the 8-fiber QSFP 40G transceiver into 4x 2-fiber 10G LC duplex connections. The module has an EDGE™ footprint for easy integration in a Base-12 solution. Its all-front access to the adapters is ideal for deployments where space and access are challenging.

These modules breakout 8-fiber MTP® terminations from the rear into 4x LC duplex connectivity at the front. The VFL-compatible shuttered adapters provide reliable dust protection without the need for dust caps and allow for easy fiber identification with VFL.

These modules are manufactured with Corning® CleanAdvantage™ technology and an optimized dust cap, eliminating the need for cleaning before initial field connection.



EDGE8 Front-Access Breakout Module | Photo REN6578

Ordering Information

ECM - UM08 - - F - ULL

1

2

3

- 1

Select LC adapters.

05 = Shuttered LC duplex multimode

04 = Shuttered LC duplex single-mode
- 2

Select MTP adapter.

E5 = MTP 8 F (pinned) multimode

E6 = MTP 8 F (non-pinned) multimode

E7 = MTP 8 F (pinned) single-mode

E8 = MTP 8 F (non-pinned) single-mode
- 3

Select fiber type.

Q = 50 μm multimode (OM4)*

G = Single-Mode Ultra (OS2)

*Compatible with 50 μm multimode (OM5) solutions.

Plug & Play™ Base-8 Module

The Plug & Play™ Base-8 module is a 24-fiber module ideal for customers who want to deploy a Base-8 solution in an existing closet connector housing (CCH) or Pretium™ connector housing (PCH) infrastructure.

These modules breakout three 8-fiber MTP® terminations from the rear into 24x LC duplex connectivity at the front. They easily integrate into existing Plug & Play (CCH or PCH) deployments. The VFL-compatible shuttered adapters provide reliable dust protection without the need for dust caps and allow for easy fiber identification.

These modules are manufactured with Corning® CleanAdvantage™ technology and an optimized dust cap, eliminating the need for cleaning before initial field connection.



Plug & Play Base-8 Module | Photo REN1949

Ordering Information

CCH8 - UM24 - - - ULL

1

2

3

- 1

Select LC adapters.
05 = Shuttered LC duplex multimode
04 = Shuttered LC UPC duplex single-mode
18 = Shuttered LC APC duplex single-mode
- 2

Select MTP adapter.
E5 = MTP 8 F (pinned) multimode
E6 = MTP 8 F (non-pinned) multimode
E7 = MTP 8 F (pinned) single-mode
E8 = MTP 8 F (non-pinned) single-mode
- 3

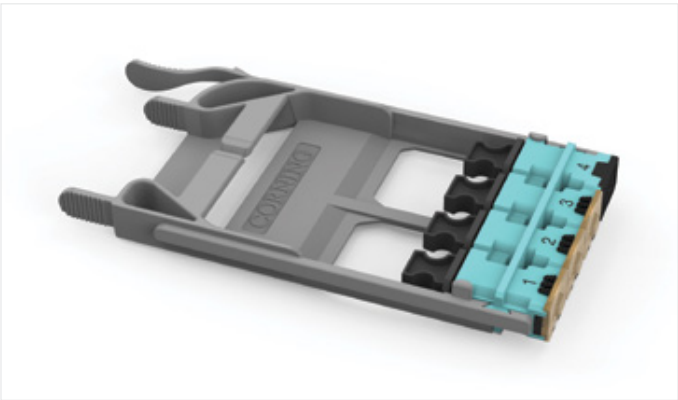
Select fiber type.
Q = 50 μm multimode (OM4)*
G = Single-Mode Ultra (OS2)

*Compatible with 50 μm multimode (OM5) solutions.

EDGE8® MTP® Adapter Panels

EDGE8® MTP® adapter panels are pass-through panels that provide a simple interface to make MTP connectors. This occurs when connecting MTP trunks to MTP extended trunks, MTP trunks-to-trunk harnesses, and in 40G multimode networks, connecting MTP trunks to 40G jumpers. The backbone trunks connect at the rear of the adapters and then various connection options are possible at the front, using end-to-end links such as MTP harnesses, MTP trunks to 40G jumpers (and in 40G multimode networks), etc. The MTP adapter panel is the easiest way to implement parallel optic applications in your data center while retaining the existing hardware.

All EDGE8 adapter panels can be installed from the front or rear of any EDGE8 hardware using a simple release mechanism, thereby eliminating the need for any tools. EDGE8 MTP adapter panels are available with one, two, and four 8-fiber adapters for multimode and single-mode applications. All panels feature unique shuttered MTP reversible adapters at the front of the panel for on-site changes to manage the field polarity. And visual fault locator (VFL) compatible shutters that enable easy port identification while defusing the WFL light to ensure adequate eye safety.



EDGE8 MTP Adapter Panel | Photo REN1007

Features

- Provide MTP connection points between trunks, harnesses, and jumpers
- Can be installed or removed from the front or rear of a housing
- MTP adapter panels facilitate simple upgrades to parallel optics
- Enable pay-as-you-grow approach
- Packaged in easy-open containers
- Translucent shutters diffuse VFL light and eliminate the need for dust caps

Part Number	Adapter Type Back	Fiber Count	Fiber Category
EDGE8-CP08-V1	MTP	8	SM (OS2)
EDGE8-CP16-V1	MTP	16	SM (OS2)
EDGE8-CP24-V1	MTP	24	SM (OS2)
EDGE8-CP32-V1	MTP	32	SM (OS2)
EDGE8-CP08-V3	MTP	8	50 μm MM (OM3/OM4)
EDGE8-CP16-V3	MTP	16	50 μm MM (OM3/OM4)
EDGE8-CP24-V3	MTP	24	50 μm MM (OM3/OM4)
EDGE8-CP32-V3	MTP	32	50 μm MM (OM3/OM4)
EDGE8-CP08-VY	MTP	8	50 μm MM (OM5)
EDGE8-CP16-VY	MTP	16	50 μm MM (OM5)
EDGE8-CP24-VY	MTP	24	50 μm MM (OM5)
EDGE8-CP32-VY	MTP	32	50 μm MM (OM5)

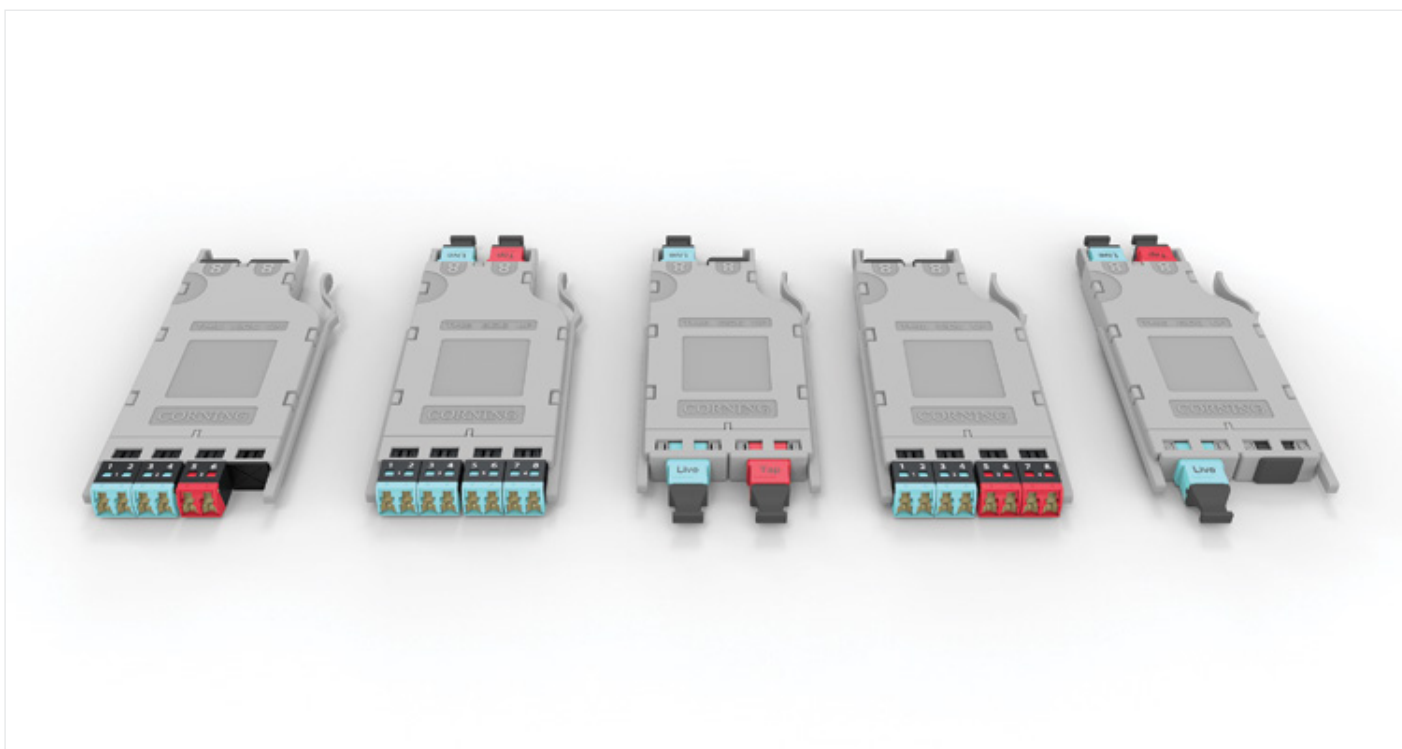
EDGE8® Tap Modules

EDGE8® tap modules enable passive optical tapping of the network while reducing downtime and link loss, and increase rack space utilization and density compared to other optical tap options.

Unlike other passive optical tap solutions that must be added as separate devices in the network link, EDGE8 tap modules integrate 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, and insertion loss in the link is required by the integration of the passive optical tapping into the module.

EDGE8 tap modules use an advanced splitter technology for multimode to reduce insertion loss compared to traditional splitter technology.

EDGE8 tap modules enable up to 72 monitor links per one rack unit (1RU), they fit seamlessly into EDGE8 solutions hardware for maximum cable management and better utilization of rack space.



EDGE8 Tap Modules - LC to LC; MTP® to LC; MTP to MTP; LC to LC; MTP to MTP | Photo REN3234

EDGE8® LC to LC Tap Modules

EDGE8® tap modules for traditional LC duplex systems enable customers to manage the monitoring access points via the jumper infrastructure zone at the front of the cabinets.

EDGE8 LC-to-LC tap modules have one LC duplex adapter for tap and two duplex adapters for live traffic. The tap adapters are red and the live adapters are blue (for single-mode) or aqua (for multimode). The red LC adapter enables monitoring on the application side.



EDGE8 LC to LC Tap Module
Photo REN3237



EDGE8 BiDi Tap Module
Photo REN3221

Multimode		
Part Number	Description	# of Duplex Ports Monitored
ETM8-50A-Q	EDGE8 Tap Module LC-LC, 50/50 split ratio	1
ETM8-50A-Q-BD	EDGE8 Tap Module BiDi LC-LC, 50/50 split ratio, BiDi	1
ETM8-70A-Q-PREM	EDGE8 Tap Module Premium LC- LC, 70/30 split ratio	1
ETM9-80A-Q-PREM	EDGE8 Tap Module Premium LC-LC, 80/20 split ratio	1

Single-Mode		
Part Number	Description	# of Duplex Ports Monitored
ETM8-50A-G	EDGE8 Tap Module LC-LC, 50/50 split ratio	1
ETM8-70A-G	EDGE8 Tap Module LC-LC, 70/30 split ratio	1
ETM8-80A-G	EDGE8 Tap Module LC-LC, 80/20 split ratio	1
ETM8-90A-G	EDGE8 Tap Module LC-LC, 90/10 split ratio	1

Specs							
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)
ETM8-50A-Q	OM4	50/50	3.7/3.7	0.10	N/A	4.0	4.0
ETM8-50A-Q-BD	OM4	50/50	3.7/3.7	0.10	N/A	4.0	4.0
ETM8-70A-Q-PREM	OM4	70/30	1.8/1.8	0.10	N/A	2.1	6.1
ETM8-80A-Q-PREM	OM4	80/20	1.3/1.3	0.10	N/A	1.6	7.6
ETM8-50A-G	OS2	50/50	3.5/3.5	0.25	N/A	4.0	4.0
ETM8-70A-G	OS2	70/30	2.0/5.8	0.25	N/A	2.5	6.3
ETM8-80A-G	OS2	80/20	1.3/7.8	0.25	N/A	1.8	8.3
ETM8-90A-G	OS2	90/10	0.7/11.8	0.25	N/A	1.2	12.3

EDGE8® MTP® to LC Tap Modules

EDGE8® MTP® to LC tap modules have a “live” pinless MTP adapter (aqua for multimode; black for single-mode) and a “tap” pinless MTP adapter (red) on the back of the module. This enables monitoring of the four live LC duplex ports on the application side.



EDGE8 MTP to LC Duplex Tap Module
Photo REN3222



EDGE8 MTP to LC Duplex Tap Module
Photo REN1527

Multimode		
Part Number	Description	# of Duplex Ports Monitored
ETM8-50B-Q	EDGE8 Tap Module MTP-LC, 50/50 split ratio	4
ETM8-70B-Q-PREM	EDGE8 Tap Module Premium MTP-LC, 70/30 split ratio	4
ETM8-80B-Q-PREM	EDGE8 Tap Module Premium MTP-LC, 80/20 split ratio	4

Single-Mode		
Part Number	Description	# of Duplex Ports Monitored
ETM8-50B-G	EDGE8 Tap Module MTP-LC, 50/50 split ratio	4
ETM8-70B-G	EDGE8 Tap Module MTP-LC, 70/30 split ratio	4
ETM8-80B-G	EDGE8 Tap Module MTP-LC, 80/20 split ratio	4
ETM8-90B-G	EDGE8 Tap Module MTP-LC, 90/10 split ratio	4

Specs							
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)
ETM8-50B-Q	OM4	50/50	3.7/3.7	0.10	0.25	4.15	4.3
ETM8-70B-Q-PREM	OM4	70/30	1.8/5.8	0.10	0.25	2.2	6.3
ETM8-80B-Q-PREM	OM4	80/20	1.3/7.3	0.10	0.25	1.7	7.8
ETM8-50B-G	OS2	50/50	3.5/3.5	0.25	0.35	4.1	4.2
ETM8-70B-G	OS2	70/30	2.0/5.8	0.25	0.35	2.6	6.5
ETM8-80B-G	OS2	80/20	1.3/7.8	0.25	0.35	1.9	8.5
ETM8-90B-G	OS2	90/10	0.7/11.8	0.25	0.35	1.3	12.5

EDGE8® MTP® to MTP Tap Modules

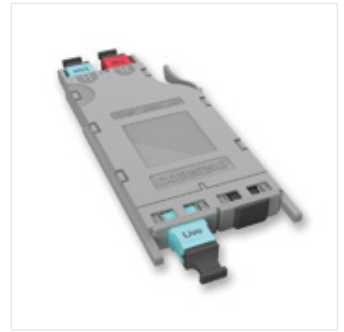
EDGE8® MTP® to MTP tap modules provide an MTP interface at the front of the tap module that can be used with a harness for LC breakout applications, or with MTP jumpers for parallel optic applications. The MTP monitoring port can be located at the front or rear of the tap module.

The front-of-module configuration has pinless “tap” (red) and pinned “live” (aqua for multimode, black for single-mode) MTP adapters on the front of the tap module and a pinless “live” (aqua for multimode, black for single-mode) MTP adapter on the rear of the tap module. This configuration enables simple patch management of the monitoring links via the patching zone at the front of the rack.

The back-of-module configuration has a pinned “live” MTP adapter (aqua for multimode; black for single-mode) on the front of the module and pinless “live” (aqua for multimode; black for single-mode) and “tap” (red) MTP adapters on the rear of the module. This allows for remote monitoring away from the main data center infrastructure.



EDGE8 MTP to MTP Tap Module
Photo REN1528



EDGE8 MTP to MTP Tap Module
Photo REN1629

Multimode

Part Number	Description	# of Duplex Ports Monitored	# of MTP Ports Monitored
ETM8-50C-Q	EDGE8 Tap Module MTP-MTP, 50/50 split ratio	4	1
ETM8-50C-Q-R	EDGE8 Tap Module MTP-MTP, 50/50 split ratio, rear tap	4	1
ETM8-70C-Q-PREM	EDGE8 Tap Module Premium MTP-MTP, 70/30 split ratio	4	1
ETM8-70C-Q-R-PREM	EDGE8 Tap Module Premium MTP-MTP, 70/30 split ratio, rear tap	4	1
ETM8-80C-Q-PREM	EDGE8 Tap Module Premium MTP-MTP, 80/20 split ratio	4	1
ETM8-80C-Q-R-PREM	EDGE8 Tap Module Premium MTP-MTP, 80/20 split ratio, rear tap	4	1

Single-Mode

Part Number	Description	# of Duplex Ports Monitored	# of MTP Ports Monitored
ETM8-50C-G	EDGE8 Tap Module MTP-MTP, 50/50 split ratio	4	1
ETM8-50C-G-R	EDGE8 Tap Module MTP-MTP, 50/50 split ratio, rear tap	4	1
ETM8-70C-G	EDGE8 Tap Module MTP-MTP, 70/30 split ratio	4	1
ETM8-70C-G-R	EDGE8 Tap Module MTP-MTP, 70/30 split ratio, rear tap	4	1
ETM8-80C-G	EDGE8 Tap Module MTP-MTP, 80/20 split ratio	4	1
ETM8-80C-G-R	EDGE8 Tap Module MTP-MTP, 80/20 split ratio, rear tap	4	1
ETM8-90C-G	EDGE8 Tap Module MTP-MTP, 90/10 split ratio	4	1
ETM8-90C-G-R	EDGE8 Tap Module MTP-MTP, 90/10 split ratio, rear tap	4	1

EDGE8® Solutions MTP® to MTP Tap Modules

Specs							
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)
ETM8-50C-Q	OM4	50/50	3.7/3.7	N/A	0.25	4.3	4.3
ETM8-50C-Q-R	OM4	50/50	3.7/3.7	N/A	0.25	4.3	4.3
ETM8-70C-Q-PREM	OM4	70/30	1.8/5.8	N/A	0.25	2.4	6.4
ETM8-70C-Q-R-PREM	OM4	70/30	1.8/5.8	N/A	0.25	2.4	6.4
ETM8-80C-Q-PREM	OM4	80/20	1.3/7.3	N/A	0.25	1.9	7.9
ETM8-80C-Q-R-PREM	OM4	80/20	1.3/7.3	N/A	0.25	1.9	7.9
ETM8-50C-G	OS2	50/50	3.5/3.5	N/A	0.35	4.2	4.2
ETM8-50C-G-R	OS2	50/50	3.5/3.5	N/A	0.35	4.2	4.2
ETM8-70C-G	OS2	70/30	2.0/5.8	N/A	0.35	2.7	6.5
ETM8-70C-G-R	OS2	70/30	2.0/5.8	N/A	0.35	2.7	6.5
ETM8-80C-G	OS2	80/20	1.3/7.8	N/A	0.35	2.0	8.5
ETM8-80C-G-R	OS2	80/20	1.3/7.8	N/A	0.35	2.0	8.5
ETM8-90C-G	OS2	90/10	0.7/11.8	N/A	0.35	1.4	12.5
ETM8-90C-G-R	OS2	90/10	0.7/11.8	N/A	0.35	1.4	12.5

EDGE8® MTP® to MTP Tap Harness

EDGE8® MTP® to MTP tap harness is used to break out the 8-fiber tap port at the rear of the EDGE8 tap module into two 4-fiber MTP connectors that plug into monitoring electronics.



EDGE8 MTP to MTP Tap Harness | Photo REN7962

Ordering Information

H					08		P	H	-		B				
	1	2			3		4			5	6		7		8

- 1

Select MTP® PRO connector (to Tap module or panel)

E5 = MTP 8 F (pinned) multimode

E6 = MTP 8 F (non-pinned) multimode

E7 = MTP 8 F (pinned) single-mode

E8 = MTP 8 F (non-pinned) single-mode
- 2

Select MTP PRO connector (to electronics - each MTP connector has 4 fibers).

E6 = MTP 8 F (non-pinned) multimode

E8 = MTP 8 F (non-pinned) single-mode
- 3

Select fiber type.

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)
- 6

Defines harness polarity.

B = Type-B
- 7

Select 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

EDGE8® MTP® to LC Tap Harness

EDGE8® MTP® to LC port tap harness is used to break out the 8-fiber tap port at the rear of the EDGE8 port tap module into LC simplex connectors that plug into monitoring electronics.

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



EDGE8 MTP to LC Tap Harness | Photo REN7938

Ordering Information

H					08		P	H	-		B				
	1	2			3	4				5	6		7		8

- 1

Select MTP PRO connector (from Tap module).

E5 = MTP 8 F (pinned) multimode

E6 = MTP 8 F (non-pinned) multimode

E7 = MTP 8 F (pinned) single-mode

E8 = MTP 8 F (non-pinned) single-mode
- 2

Select breakout connector type.

02 = LC simplex, single-mode

03 = LC simplex, low-loss multimode
- 3

Select fiber type.

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)
- 6

Defines harness polarity.

B = Type-B
- 7

Select 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

Reverse Polarity Uniboot Duplex Jumpers

EDGE™ reverse polarity uniboot duplex jumpers allow for the 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.



Reverse Polarity Uniboot Duplex Jumpers | Photos REN6462 and REN6461

Features

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

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

02

D

20

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

Reverse Polarity LC Duplex Clips

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



EDGE™ Reverse Polarity Uniboot LC Duplex Clips | Photo LAN2254

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.

EDGE8® Solutions

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 UP C 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	

Housing Accessories			
Part Number	Product Description	Units per Delivery	
EDGE-TRAY-QTY1	EDGE8® Hardware Accessory, EDGE8 tray kit, quantity of 1	1/1	
EDGE8-TRAY-QTY12	EDGE8 Hardware Accessory, EDGE8 tray kit, quantity of 12	12/1	
EDGE8-01U-TRAY	EDGE8 Hardware Accessory, EDGE8-01U tray kit, 12 pack, POS 01 to 02	1/1	
EDGE8-02U-TRAY	EDGE8 Hardware Accessory, EDGE8-02U tray kit, 12 pack, POS 01 to 06	1/1	
EDGE8-04U-TRAY	EDGE8 Hardware Accessory, EDGE8-04U tray kit, 12 pack, POS 01 to 12	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	

EDGE8® 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	
Trunk Accessories			
Part Number	Product Description	Units per Delivery	
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	
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	

EDGE8® Solutions

Trunk Accessories			
Part Number	Product Description	Units per Delivery	
PC4-BKT-23	EDGE™ Solutions Mounting Bracket for mounting 4U housings into 23-in racks or cabinets	1/1	
EDGE-01U-FLSH-BKT	EDGE Extension and Flush-Mount Bracket for EDGE-01U	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	
EDGE8-CCHBKT-1	Bracket to hold one EDGE8® solutions module that fits into Plug & Play™ housings	1/1	
EDGE8-CCHBKT-2	Bracket to hold two EDGE8 solutions module that fits into Plug & Play housings	1/1	
EDGE-EMOD-STRN	EDGE Solutions Strain-Relief Bracket, EMOD, 1U	1/1	

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-NO PINS	MTP PRO Pin Exchanger Kit, SM 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-NO PINS	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

EDGE8® Solutions Components

	10G/40G/100G Optimized Base-8 Trunk Cables (8-288 fibers)					
Data Center Networking Backbone	 EDGE8® MTP® Trunk Cable GE5E5xxQPNDU-yyyF (xx = fiber count, yyy = cable length)					
System Equipment Interface Solutions	 EDGE8 MTP to LC Module ECM8-UM08-05-E6Q-ULL	 EDGE8 Port Breakout Module ECM8-05E6-QE8B-xxxF (xxx = leg length)	 EDGE® Solutions Reverse Polarity Uniboot Duplex Jumpers 797902Q820yyyM (yyy = cable length)	 EDGE8 Connector Panel, 32 F EDGE8-CP32-V3 Available in Other Configurations	 EDGE8 Harness* HE67908QPH-wAyyyF (w = LC leg stagger* yyy = cable length)	 EDGE8 8-Fiber MTP to MTP Jumper* JE6E608QE8-NByyyM (yyy=cable length)
Aggregate and Protect the Interface Solution	 EDGE8 1U Housing EDGE8-01U	 EDGE8 1U Housing EDGE8-01U-SP	 EDGE8 2U Housing EDGE8-02U	 EDGE8 4U Housing EDGE8-04U		

**Please refer to AE Notes 156 and 157 for part number selection guidance.*

	Feature	EDGE8® Solutions	EDGE8 FX Solutions
Rack	Maximum capacity with 7-ft racks (44U)	6,336 Fibers with 2-Fiber LC Connectors 3,168 Duplex Ports	4,224 Fibers with 2-Fiber LC Connectors 48 Duplex Ports
		25,344 Fibers with 8-Fiber MTP® Connectors 3,168 MTP Ports	16,986 Fibers with 8-Fiber MTP Connectors
Fiber	1U Capacity	96 Fibers with 2-Fiber LC Connectors 48 Duplex Ports	96 Fibers with 2-Fiber LC Connectors 48 Duplex Ports
		384 Fibers with 8-Fiber MTP Connectors 48 MTP Ports	384 Fibers with MTP Connectors 48 MTP Ports
	1U-SP Capacity	144 Fibers with 2-Fiber LC Connectors 72 Duplex Ports	N/A
		576 Fibers with 8-Fiber MTP Connectors 72 MTP Ports	
	2U Capacity	228 Fibers with 2-Fiber LC Connectors 144 Duplex Ports	192 Fibers with LC Connectors 96 Duplex Ports
		1,152 Fibers with 8-Fiber MTP Connectors 144 MTP Ports	768 Fibers with 8-Fiber MTP Connectors 96 MTP Ports
	4U Capacity	576 Fibers with 2-Fiber LC Connectors 288 Duplex Ports	384 Fibers with LC Connectors 192 Duplex Ports
		2,304 Fibers with 8-Fiber MTP Connectors SR4-288 MTP Ports	1,536 Fibers with 8-Fiber MTP Connectors 192 MTP Ports
Module/ Panel	1U Capacity	12	12
	1U-SP Capacity	18	N/A
	2U Capacity	36	24
	4U Capacity	72	48
Additional Features	Mounting Options	Standard	Standard
	Finger Access	Excellent	Standard

Corning's Data Center Solutions Provide Three Tiers of Value

1. EDGE™ SOLUTIONS VALUE



BEST-IN-CLASS
HIGH-DENSITY
SOLUTION



TOOL-LESS
INSTALLATION



SUPERIOR
FINGER ACCESS



SCALABLE AND
MODULAR
COMPONENTS

2. BASE-8 VALUE



SUPERIOR
NETWORK
SCALABILITY



RISK
MITIGATION



IMPROVED LINK
PERFORMANCE

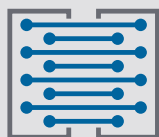


STREAMLINED
PORT MAPPING

3. EDGE8™ SOLUTIONS VALUE



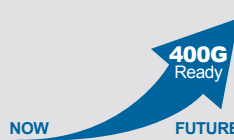
REDUCE JUMPER
COMPLEXITY



ELIMINATE
STRANDED
CABLING ASSETS



PREPARE FOR
RAPIDLY
CHANGING
TECHNOLOGY



PLAN FOR
NETWORK
CHANGES



TRIPLE YOUR
SWITCH PORT
DENSITY

Getting a Data Center Up and Running Is No Small Task.

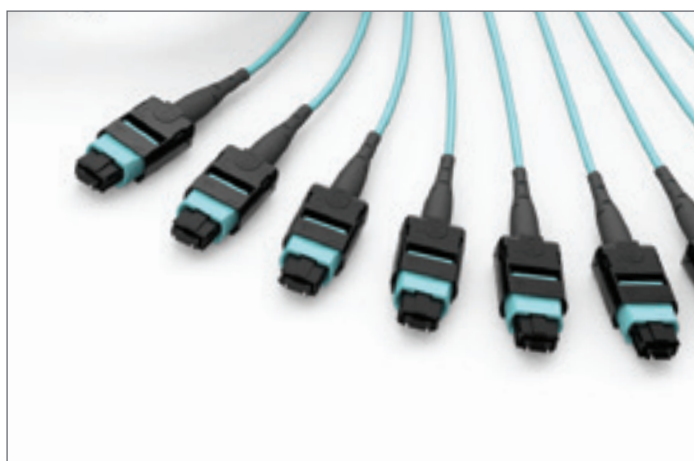
Keeping a data center fully optimized, eliminating latency, reducing downtime, maintaining compliance with continually evolving standards at the ever-increasing transmission speeds required to keep your business competitive – now that's a challenge!

At Corning these are just the kinds of challenges we like to solve. We get data centers. We set the bar for structured cabling in the data center back in 2009 when we introduced EDGE solutions, the industry's first preterminated optical cabling system specifically designed for the data center environment.



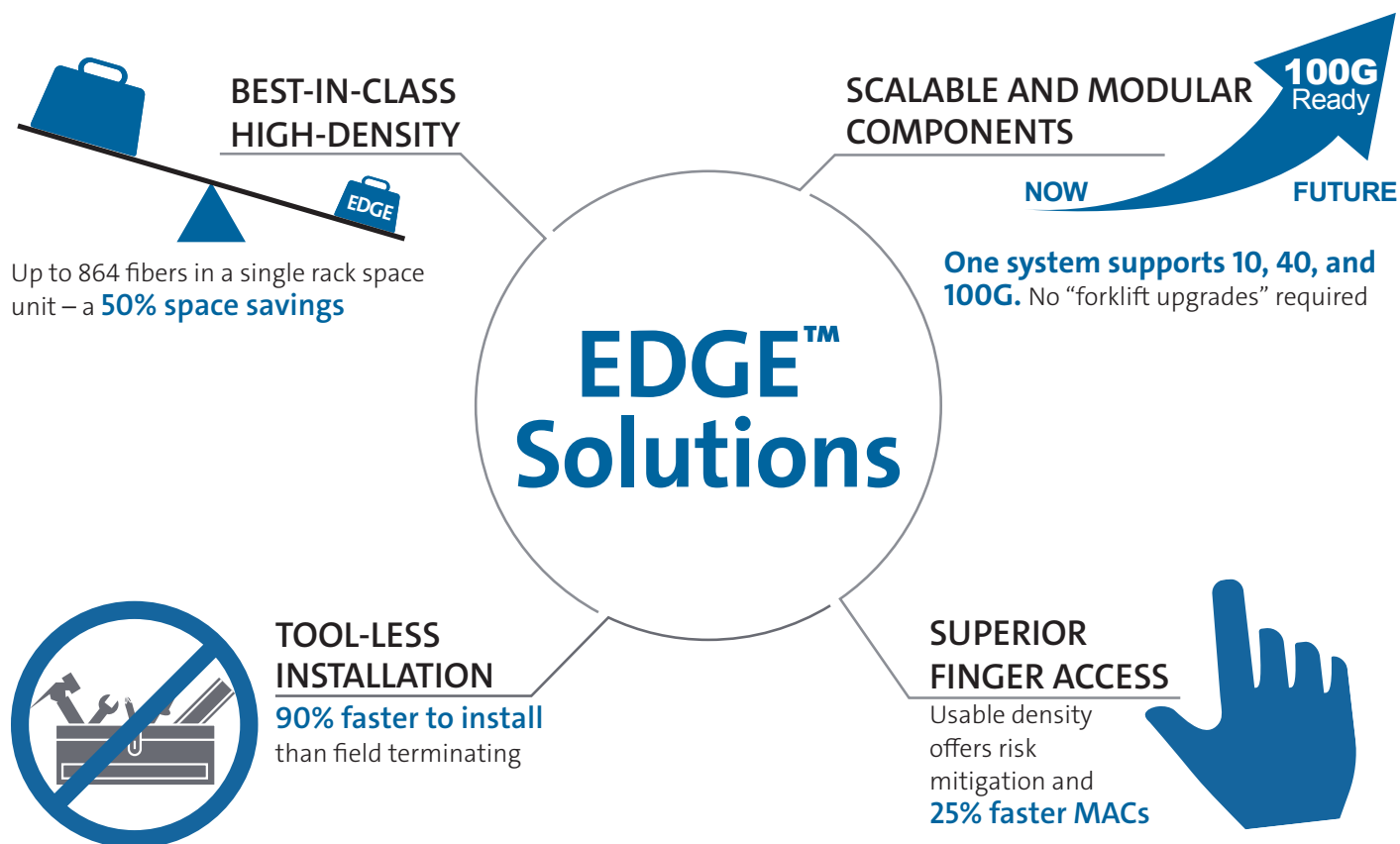
A SOLUTION FOR EVERY DATA CENTER

Because every data center and SAN is unique, EDGE™ and EDGE8™ solutions provide a family of modular, tip-to-tip connectivity options that are uniquely configurable. Each includes cabling, housings, modules, panels, and jumpers. And each offers faster, simpler installation, higher density, superior cable management, easier moves, adds, and changes (MAC), and more flexible migration paths than competing data center solutions. But each solution set supports a different approach to data center management.



Corning's EDGE™ Solutions

While EDGE solutions continue to evolve, the foundation that they were designed upon – a fundamental understanding of the pain points inherent in managing a data center – has not. Density, network uptime, speed, simplicity, and a clear migration path to meet future requirements – these are all still critical considerations in any data center environment. EDGE solutions offer:



Our Award-Winning EDGE8™ Solutions – Because Sometimes Less Really Is More

EDGE8 solutions combine all of the density, simplicity, scalability, and modularity of Corning's EDGE solutions with the superior network scalability, improved link performance, and 100% fiber utilization of a Base-8 design.

Corning's EDGE8 solutions further the value of Base-8 connectivity by providing outstanding value in four critical areas:



REDUCE JUMPER COMPLEXITY

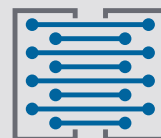
67% reduction in inventory. EDGE8 trunks are pinned, allowing for a single pinless jumper deployment for all installations, reducing stocking and deployment complexity

1. ASSET UTILIZATION

ELIMINATE STRANDED CABLING ASSETS

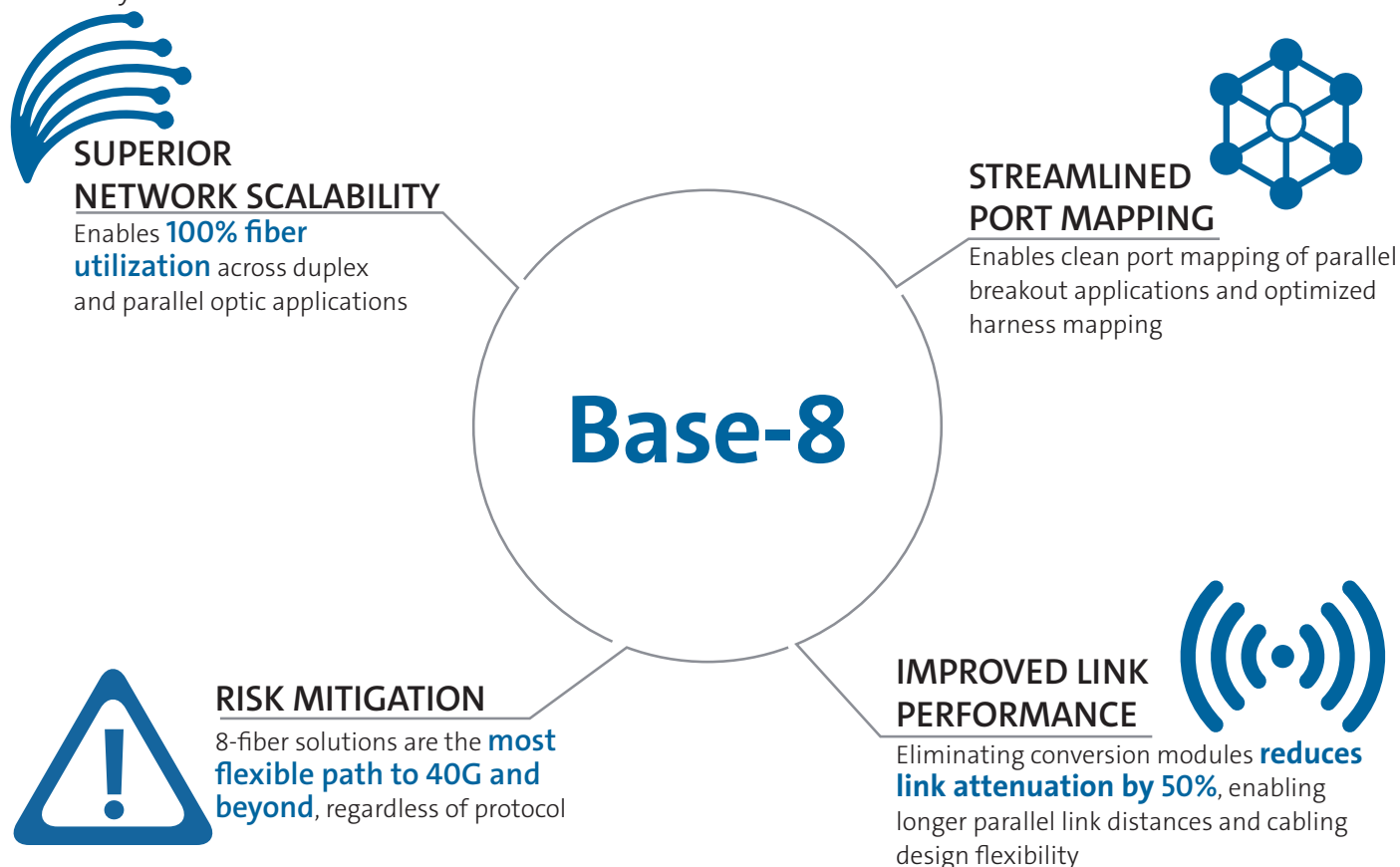
100% fiber utilization. Stop paying for fibers you can't use, and realize up to 25% cost reduction of structured cabling in parallel systems

Optimized harness mapping. Allows for 24-, 32-, 36-, and 48-port blades on large chassis switches to be cabled with 8-fiber harnesses with no unused fiber/connectors



Why Base-8 and Why Now? The Case for Base-8:

Technology road maps of transceiver, switch, server, and storage makers clearly illustrate that transmission speeds ranging from 10 to 400G will be based on either 2- or 8-fiber connectivity solutions. Base-8 connectivity provides the most future-ready solution to support 400G transmission requirements, but you don't need to wait for future value. The benefits are clear today:



EDGE8™ Solutions

2. TECHNOLOGY ADOPTION



PREPARE FOR RAPIDLY CHANGING TECHNOLOGY

Eliminate conversion modules to achieve cost and link-loss savings. **50% link-loss improvement** + improved MTP® connector performance + improved module loss (0.35 dB) = extended reach

3. RISK AVOIDANCE

PLAN FOR NETWORK CHANGES

EDGE8 solutions provide the **simplest path from 10 to 400G**

NOW

400G
Ready

FUTURE

4. HIGH-DENSITY 10G



TRIPLE YOUR SWITCH PORT DENSITY

Parallel ports running in breakout mode translate to savings in power, cost, and rack space

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 24-fiber 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 dust 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.

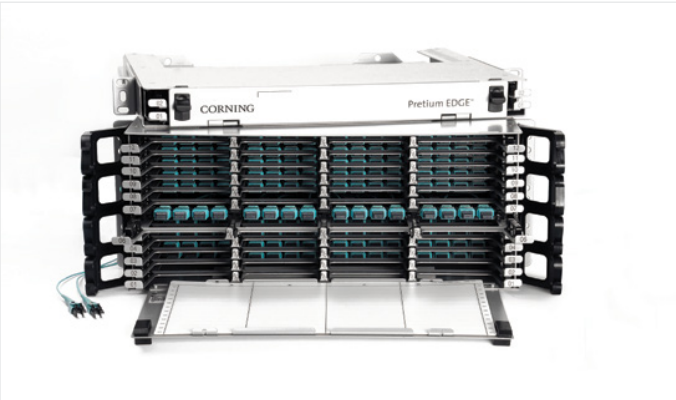
Awards

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 Overview

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

Features and Benefits

Removable covers on the 1U and 2U housing

Provide easier access to modules and panel.

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 rack

Offers the ultimate design flexibility.

Snap-in strain-relief clips

Provides easier cable management.

MTP® PRO Connector and Push-Pull Boot

Allows for pinning and polarity changing in the field while enabling easier mating and unmating in extremely dense applications.

MTP assemblies with reduced footprint and cable OD

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 dust caps

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

Connected Mated Pair – Low Loss		
	Insertion Loss, Maximum 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, Maximum OM3/OM4/OM5	OS2
Component Value	0.5 dB	1.0 dB

Connected Mated Pair – Ultra Low Loss

	Insertion Loss, Maximum 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, Maximum OM3/OM4/OM5	OS2
Component Value	0.35 dB	0.6 dB

Conversion Module/Conversion Harness

	Insertion Loss, Maximum OM4
Component Value	0.5 dB

Optical Distribution Frames

The 19-inch optical distribution frames (ODF) are optimized for high-density, cross-connect applications. When fully loaded with EDGE™ 4U housings, the dual frame provides a total capacity of 5,760 LC duplex or 11,520 MTP® ports. When the single frame is used, it provides total capacity of 2,880 LC duplex or 5,760 MTP ports.

The frame has been designed with modular jumper management plates and segmented jumper management hubs. A single 4-meter jumper length allows patching from any port to any other port on the dual- or single-frame configuration. Gravity-managed slack storage ensures single jumpers can be added or removed in less than 2 minutes when fully populated.

Additional accessories, like cable routing channels, front doors, back doors, and side panels are available to improve containment, aesthetics, cleanliness, and security.

Features and Benefits

Modular construction

Frame can be quickly assembled by a single installer. Easily scalable to dual- or quad-frame configurations.

One-jumper configuration

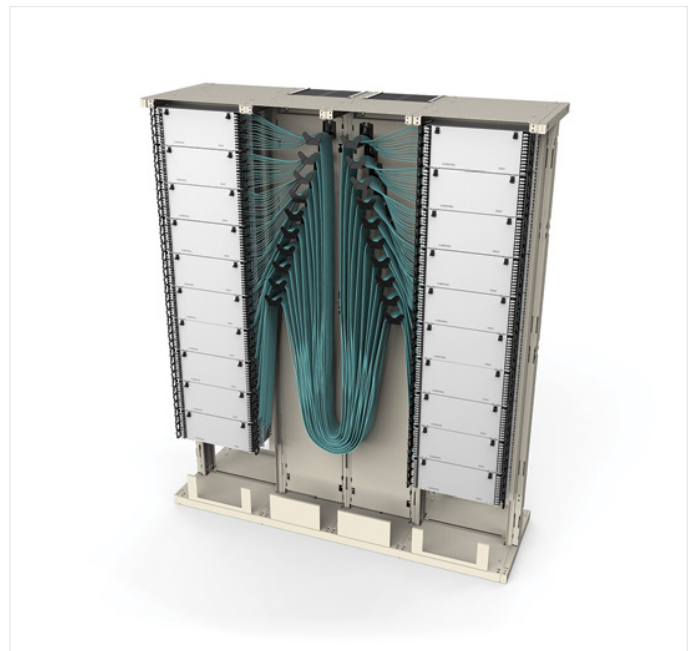
A single 4-meter jumper length allows patching from any port to any other port.

Cable and trunk strain-relief kits

Easy routing, dressing, and strain-relief for optical cables or preterminated trunks.

Additional bottom-channel kit available

Route fibers at the bottom of cabinet frame, no need for dedicated overhead trays.



Corning Optical Distribution Frame | Photo REN7527

Corning Optical Distribution Frames

EDGE™ Optical Distribution Frames		
Part Number	Product Description	
PF2TDAFG5LCANNNN2PADQ	EDGE™ Optical Distribution Frame (ODF), left cable management, 7 ft	
PF2TDAFG5RCANNNN2PADQ	EDGE ODF, right cable management, 7 ft	
PC2TDAFG5LCAA2FA2PADQ	EDGE ODF, left cable management, 7 ft with doors	
PC2TDAFG5RCAB2FA2PADQ	EDGE ODF, right cable management, 7 ft with doors	
PF2QDACG7ZDANNNN2PFDQ	EDGE ODF, dual, 7 ft	
PC2QDACG7ZDAG7FA2PFDQ	EDGE ODF, dual, 7 ft with doors	

EDGE™ Solutions HD Housing

EDGE™ solutions 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.



EDGE-01U | Photo LAN1693



EDGE-01U-SP | Photo LAN7370



EDGE-02U | Photo LAN6656



EDGE-04U | Photo LAN6680

Features and Benefits

Sliding drawers

Allows 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 trunks through side or rear cable-entry points.

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® adapters
- 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 (384 fiber) | - 2U EDGE Housing EDGE-02U
144x LC duplex ports (288 fiber)
144x MTP ports (1152 fiber) |
| - 1U EDGE Housing EDGE-01U-SP
72x LC duplex ports (144 fiber)
72x MTP ports (576 fiber) | - 4U EDGE Housing EDGE-04U
288x LC duplex ports (576 fiber)
288x MTP ports (2304 fiber) |

Ordering Information					
Part Number	Height	Dimensions (W x D x H)	Packaging Dimensions (W x D x H)	Shipping Weight	Number of Panels per Housing
EDGE-01U	1U	432 mm x 561 mm x 44 mm	565 mm x 657 mm x 171 mm	9.3 kg (20.4 lb)	8
EDGE-01U-SP	1U	432 mm x 561 mm 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:

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

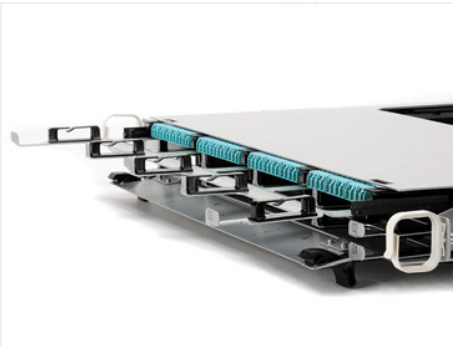
EDGE™ FX Housing

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.

Ordering Information					
Part Number	Height	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 7 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 in 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-01U-EMOD | Photo LAN4821



EDGE-01U-FP | Photo LAN2656



EDGE-02U-FP | Photo REN1610



EDGE-04U-FP | Photo REN1575



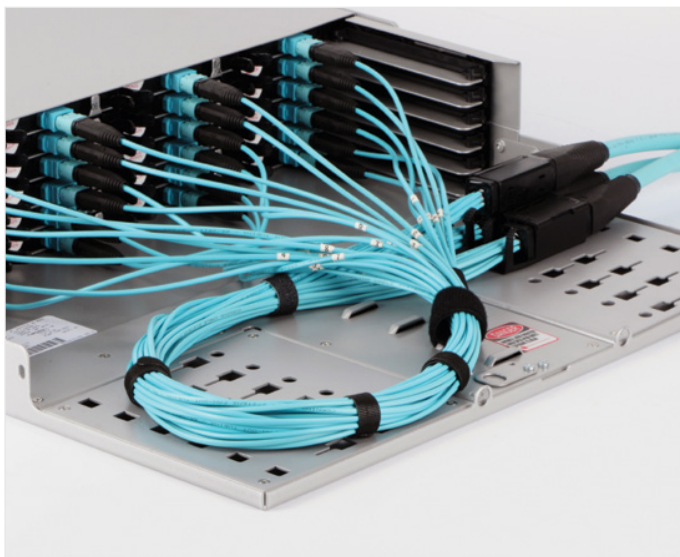
EDGE-SMH | Photo REN3548



EDGE-FZB-04U | Photo LAN1868

EDGE™ Trunks

EDGE™ MTP® trunks are preterminated cables with MTP PRO 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.



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

Features and Benefits

Snap-in strain-relief clips

Provides easier cable management.

Small outer diameter

Improves cable tray fill ratio and allows for improved airflow.

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 with optimized dust caps

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

MTP PRO Connector and Push-Pull Boot

Allows for pinning and polarity changing in the field while enabling easier mating and unmating in extremely dense applications.



EDGE MTP to MTP Trunk | Photos REN7793 and REN7794



EDGE MTP to LC Hybrid Trunk | Photos REN7962 and REN7963

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°C/60°C, humidity testing at 90-95% 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	Furcation Type	Minimum Conduit Size with 18-in Elbow	Weight	Minimum Bend Radius (Installation - 15x OD)	Minimum Bend Radius (Operation - 5x OD)
Non-Armored Cable Specifications							
12	5.5 mm ± 0.3 mm (0.22 in)	41 mm (1.6 in)	EDGE Size 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)	EDGE Size 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)	EDGE Size 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)	EDGE Size 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)	EDGE Size 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)	EDGE Size 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)	EDGE Size 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 (0.33 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)	250 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)
Armored Cable Specifications							
12	11.3 mm ± 1.5 mm (0.45 in)	51 mm (2.0 in)	P&P Size 1	3.0 in	109 kg/km (73 lb/1,000 ft)	169.5 mm (6.67 in)	56.5 mm (2.22in)
24	13.7 mm ± 1.5 mm (0.54 in)	51 mm (2.0 in)	P&P Size 1	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 ± 1.5 mm (0.54 in)	51 mm (2.0 in)	P&P Size 1	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 ± 1.5 mm (0.59 in)	51 mm (2.0 in)	P&P Size 1	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 ± 1.5 mm (0.65 in)	51 mm (2.0 in)	P&P Size 1	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 ± 1.5 mm (0.68 in)	51 mm (2.0 in)	P&P Size 1	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 ± 1.5 mm (0.74 in)	51 mm (2.0 in)	P&P Size 1	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	Multimode
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
Minimum 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/—/—	100000/—/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.

Note: Contact a Corning Customer Care Representative for additional information.

Optical Performance Multimode

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

*Note: IL in preconnectorized 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	
Reed 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
Reed 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

Trunk Shipping Information

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™ MTP® Trunk Cables

EDGE™ MTP® trunks provide the backbone of the EDGE solution. With non-pinned MTP PRO 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 Cable | Photos REN7793

Ordering Information

*

D

1

2

3

4

5

6

7

8

9

10

11

**For custom labels, add the letter "L" as prefix to the part number e.g., LG757548QPNDDUxxxF
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 PRO connector.
(end one on outside of reel).

75 = MTP 12 F (non-pinned) multimode
90 = MTP 12 F (non-pinned) single-mode
00 = Pigtail (*Only available with straight-through polarity*)
- 3

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

75 = MTP 12 F (non-pinned) multimode
90 = MTP 12 F (non-pinned) single-mode
- 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 multimode (OM5)
G = Single-mode Ultra (OS2)
- 6

Select cable type.

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

**Armored cable only available for fiber counts less than or equal to 144 F.*
- 7

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

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

Furcation legs are color-coded by fiber type.
- 8

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

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

Furcation legs are color-coded by fiber type.
- 9

Select trunk type.

U = Standard Type-B
P = Straight-through Type-A
- 10

Select cable length.

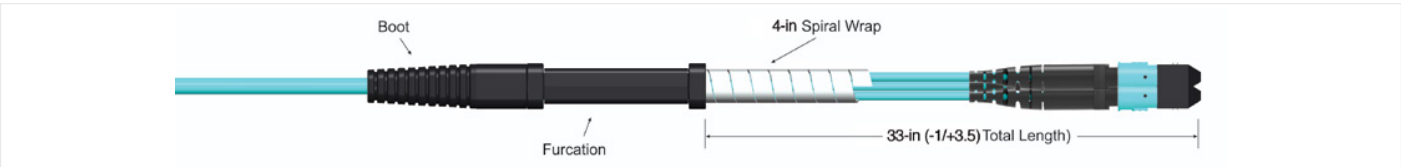
005-999 ft
(1 ft increments measured from furcation to furcation)

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™ MTP® Extender Trunk Cables

EDGE MTP® extender trunks provide additional distance for the backbone of the EDGE solution. With a non-pinned MTP PRO 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.



EDGE MTP Trunk Cable | Photos REN7793

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

Ordering Information

						C	D	X		
1	2	3	4	5	6	7	8	9	10	11

- 1

Select grip.
G = Grip on first end only
Z = No grip
- 2

Select MTP PRO connector.
(end one on outside of reel).
93 = MTP 12 F (pinned) multimode
89 = MTP 12 F (pinned) single-mode
- 3

Select MTP PRO connector.
(end two on inside of reel).
75 = MTP 12 F (non-pinned) multimode
90 = MTP 12 F (non-pinned) single-mode

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

- 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 multimode (OM5)
G = Single-mode Ultra (OS2)
- 6

Select cable type.
PN = Plenum, non-armored
AD = Plenum, BX armored

*Armored cable only available for fiber counts less than or equal to 144 F.
- 7

Defines leg length.
(end one on outside of reel).
C = 60 in (+3.5/-1.0 in)*

Mates with trunk (long leg reaches from rear to the front side of housing)

- 8

Defines leg length.
(end two on inside of reel).
D = 33 in (+3.5/-1.0 in)*

Mates with module/harness.
- 9

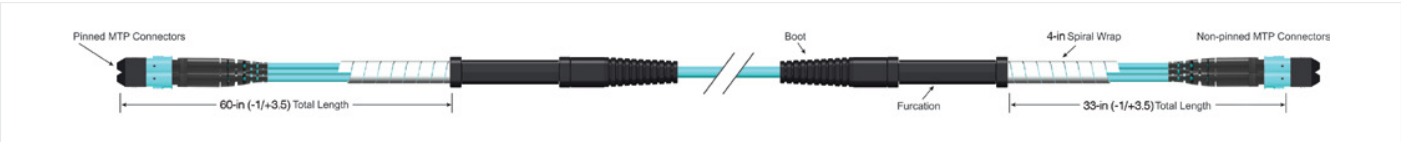
Defines trunk type.
X = Extender
- 10

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



EDGE Solutions Extender Trunk Cable Configuration | Drawing ZA-3869

Hybrid MTP® to LC Uniboot Trunks

EDGE™ MTP® to LC uniboot hybrid trunks combine non-pinned MTP PRO 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.



EDGE Hybrid MTP to LC Uniboot Trunks | Photo REN7796

Ordering Information

						D		W		
1	2	3	4	5	6	7	8	9	10	11

- 1

Select grip.
G = Grip on first end
Z = No grips
- 2

Select MTP PRO connector.
(end one on outside of reel).
75 = MTP 12 F (non-pinned) multimode
90 = MTP 12 F (non-pinned) single-mode
- 3

Select LC connector.
(end two on inside of reel).
79 = LC Uniboot multimode
78 = LC Uniboot single-mode
- 4

Select standard 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 multimode (OM5)
G = Single-mode Ultra (OS2)
- 6

Select cable type.
PN = Plenum, non-armored
AD = Plenum, BX armored
- 7

Defines leg length.
(end one on outside of reel).
D = 33 in (+3.5/-1.0 in)*
Mates with module
- 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

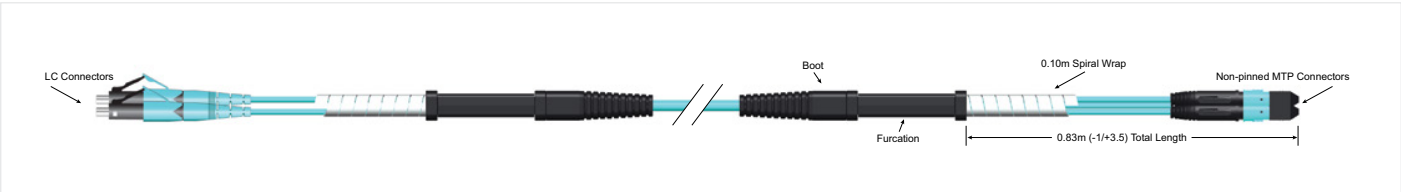
Defines trunk type.
W = Universal hybrid trunk
- 10

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 Trunk Configuration | Drawing ZA-3870

Hybrid MTP® to LC Uniboot Extender Trunks

EDGE™ MTP® to LC uniboot hybrid extender trunks combine pinned MTP PRO 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.



EDGE Hybrid MTP to LC Uniboot Extender Trunk | Photo REN7796

Ordering Information

1	2	3	4	5	6	7	8	9	10	11

- 1 Select grip.**
G = Grip on first end
Z = No grips

2 Select MTP PRO connector.
(end one on outside of reel).
93 = MTP 12 F (pinned) multimode
89 = MTP 12 F (pinned) single-mode

3 Select LC connector.
(end two on inside of reel).
79 = LC Uniboot multimode
78 = LC Uniboot single-mode

4 Select standard 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 multimode (OM5)
G = Single-mode Ultra (OS2)

6 Select 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 trunk

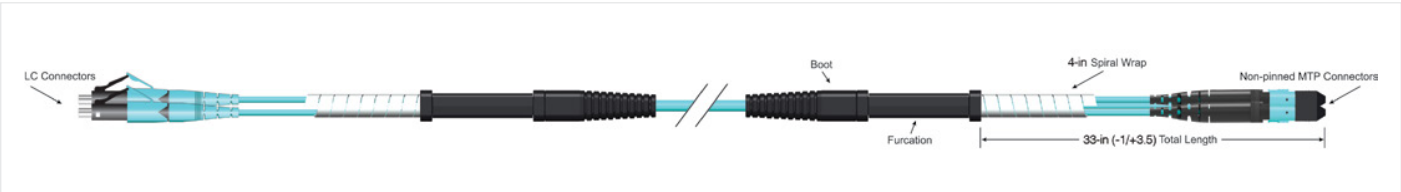
8 Select leg length.
(end two on inside of reel).
K = 24 in (+3.5/-1.0 in)
L = 36 in (+3.5/-1.0 in)(standard)
M = 48 in (+3.5/-1.0 in)
N = 60 in (+3.5/-1.0 in)
P = 72 in (+3.5/-1.0 in)
- 9 Defines trunk type.**
Z = Universal hybrid extender

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

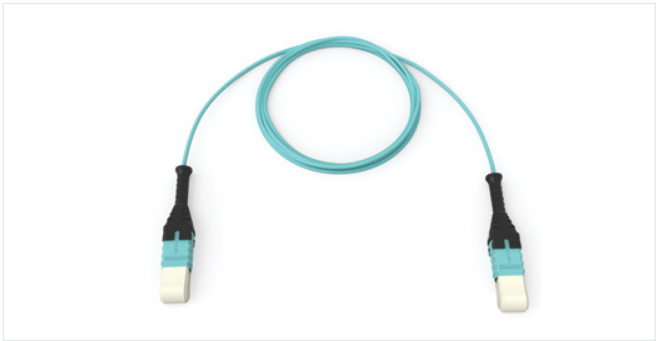


EDGE Solutions Hybrid Extender Trunk Configuration | Drawing ZA-3871

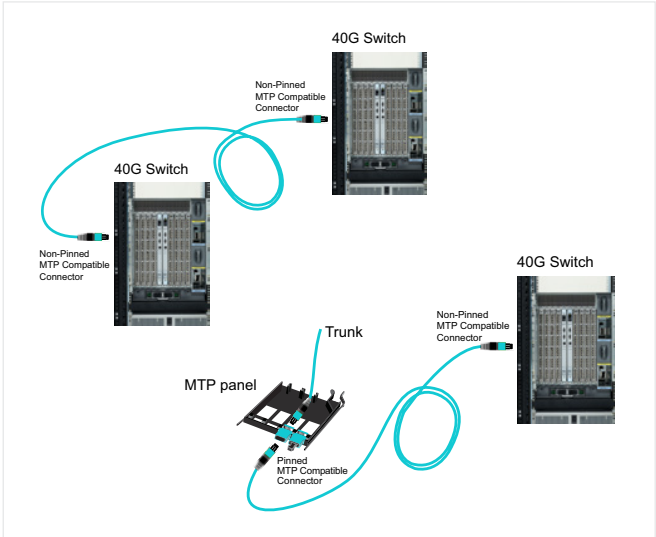
EDGE™ MTP® Jumpers

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 dust 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.



EDGE MTP Jumper | Photo REN7928



EDGE MTP Jumper | Drawings ZA-3866 and ZA-3868

Ordering Information

*

J

12

E8

-

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) multimode
93 = MTP 12 F (pinned) multimode
89 = MTP 12 F (pinned) single-mode
90 = MTP 12 F (non-pinned) single-mode

2

Select MTP PRO connector.

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.

T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
V = 50 µm 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 = TIA-568 Type-A
B = TIA-568 Type-B

Note: For jumper polarity, reference [AEN151](#).

7

Select jumper length.

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

8

Select unit of measure.

F = Feet
M = Meters
- Note: Always list lowest numbered connector first.

EDGE™ 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 optimized dust caps.



EDGE 24-F MTP Jumper | Photo LAN4167

Ordering Information

J					24		PH	-	N	A				
	1	2	3	4	5	6	7	8						

- 1

Select MTP® connector.
A6 = MTP 24 F (non-pinned) multimode
A9 = MTP 24 F (non-pinned) single-mode
- 2

Select MTP connector.
A6 = MTP 24 F (non-pinned) multimode
A9 = MTP 24 F (non-pinned) single-mode
- 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.
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: Refer to [AEN150](#) for application guidance.

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 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.



EDGE MTP to LC Uniboot Harness, nonstaggered | Photo REN7795



EDGE 2x3 Conversion Harness | Photo REN7929

Features and Benefits

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

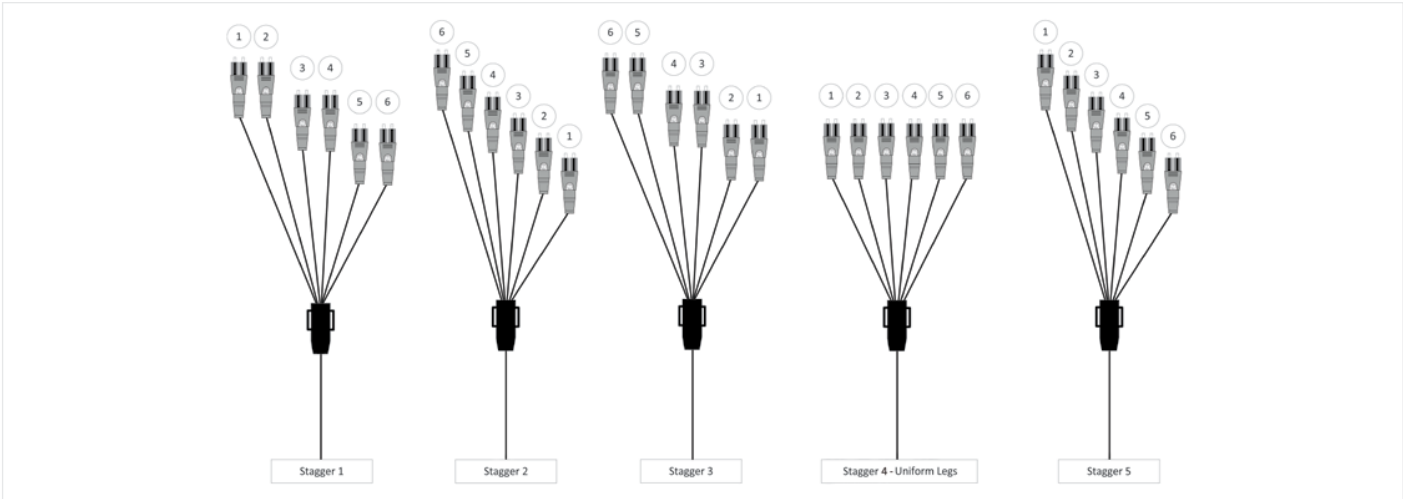
MTP PRO Connector and Push-Pull Boot
Allows for pinning and polarity changing in the field while enabling easier mating and unmating in extremely dense applications.

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 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 Staggered Harness Offerings

EDGE™ MTP® to LC Uniboot Staggered Harnesses

EDGE™ MTP® to LC uniboot staggered harnesses provide breakout from 12-fiber MTP® PRO connectors to LC uniboot connectors. These harnesses are available in five stagger configurations to meet various port-replication needs.

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 Staggered Harnesses | Photo REN7933

Ordering Information

H				12		PH	-					
	1	2		3	4	5	6	7	8			

- 1

Select MTP PRO connector.
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
- 2

Select the breakout connector type.
79 = LC uniboot multimode
78 = LC uniboot single-mode
LCs are universally wired.
- 3

Select fiber type.
T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
V = 50 µm 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).
1 = Type 1 Stagger
2 = Type 2 Stagger
3 = Type 3 Stagger
4 = Type 4 Stagger (uniform)
5 = Type 5 Stagger

Note: For harness stagger type, reference [AEN157](#).
- 6

Select harness polarity.
A = Type-A
B = Type-B
- 7

Select harness length.
003-020 ft
(1 ft increments measured from plug to MTP, does not include LC stagger)

001-006 m
(1 m increments measured from plug to MTP, does not include LC stagger)
- 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™ 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 REN7795

Ordering Information

H12PH-

1

2

3

4

5

6

7

8

- 1

Select MTP PRO connector.
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
- 2

Select the breakout connector type.
79 = LC uniboot multimode
78 = LC uniboot single-mode

LCs are universally wired.
- 3

Select fiber type.
T = 50 μm multimode (OM3)
Q = 50 μm multimode (OM4)
V = 50 μm 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 code by fiber type.
- 6

Select harness polarity.
A = Type-A
B = Type-B
- 7

Select harness length.
003-200 ft
(1ft 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™ 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 dust caps, eliminating the need for scoping and cleaning prior to initial field connection.



EDGE 2x3 Conversion Harness | Photo REN7929

Ordering Information

H	9	3	7	5	2	4	□ 1	P	H	-	□ 2	□ 3	A	□ 4	□	□	F
---	---	---	---	---	---	---	--------------------	---	---	---	--------------------	--------------------	---	--------------------	--------------	--------------	---

- 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 harness length in feet (does not include leg length).
003-200 ft
(1ft increments measured from plug to plug, does not include leg length)

Note: Refer to [AEN151](#) for application information.

EDGE™ 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.



EDGE 24-Fiber “Y” Harness | Photo REN7941

Ordering Information

H			24		PH	-				F
	1	2		3	4		5	6		7

- 1

Select 24-fiber MTP connector.

A6 = MTP 24 F (non-pinned) multimode
A9 = MTP 24 F (non-pinned) single-mode
- 2

Select 12-fiber MTP PRO connector.

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.

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](#) for application and polarity information.
- 7

Select harness length.

003-200 ft
(1ft 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™ 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 be used to breakout 24-fiber ports using Base-8 structured cabling. The MTP breakout harness is also available as a 20-fiber 1x10 assembly with one 24-fiber MTP on one end and (10) 2-fiber LC duplex connectors on the other.

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



EDGE 24-Fiber MTP Breakout Harness | Photo REN7937

Ordering Information



- 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 count.

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

Defines cable type.

PH = Plenum, harness
- 6

Select breakout leg length.

K = 24 in

L = 36 in
- 7

Select polarity.

A = Type-A polarity

B = Type-B polarity

Refer to [AEN150](#) and [AEN156](#) for application and polarity information.
- 8

Select harness length.

003-200 ft

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

EDGE™ Tap Harnesses

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.



EDGE Tap Harness | Photo REN7939

Ordering Information

H			12		E 8	-		B			
	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 μm multimode (OM4)

G = Single-mode Ultra (OS2)
- 4

Select leg length in inches.

(leg OD is 2.0 mm).

J = 12 in (+3.5/-1.0 in)

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

L = 36 in (+3.5/-1.0 in)
- 5

Select 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)
- 6

Select unit of measure.

M = Meters

F = Feet

Note: Refer to [AEN164](#) for application information.

EDGE8® MTP® to LC Harnesses

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 REN7931

Ordering Information

H			79	08		PH	-						
	1	2			3	4		5	6		7		8

- 1

Select MTP PRO Connector

E5 = MTP 8 F (pinned) multimode
E6 = MTP 8 F (non-pinned) multimode
- 2

Select the breakout connector type.

79 = LC uniboot multimode

LCs are universally wired
- 3

Select fiber type.

T = 50 μ m multimode (OM3)
Q = 50 μ m 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

Defines harness polarity.

A = Type-A polarity
B = Type-B polarity

Note: For harness polarity, reference [AEN152](#).
- 7

Select harness length.

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

001-060 m
(1m increments measured from plug to MTP, does not include leg length)
- 8

Select unit of measure.

F = Feet
M = Meters

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 modules ensure 100% 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 distance.

Universal wiring

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

Corning® CleanAdvantage™ technology and optimized dust caps

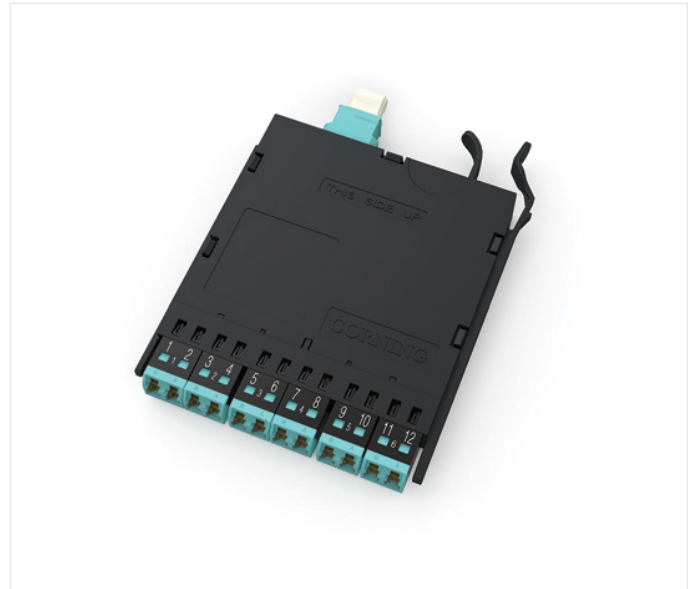
Eliminates the need for scoping and cleaning prior to initial field connection (excludes mesh modules and Tap modules).

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

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.



EDGE Module | Photo REN6521

Ordering Information

ECM - 12 - - - ULL

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 multimode
04 = Shuttered LC UPC duplex single-mode
18 = Shuttered LC APC duplex single-mode
- 4

Select MTP adapter on the back of the module.
93 = MTP 12 F (pinned) multimode
89 = MTP 12 F (pinned) single-mode
- 5

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

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).



EDGE Module | Photo REN6521

Ordering Information

ECM - 12 - -

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 multimode
04 = Shuttered LC UPC duplex single-mode
18 = Shuttered LC APC duplex single-mode
- 4

Select MTP adapter on the back of the module.
93 = MTP 12 F (pinned) multimode
89 = MTP 12 F (pinned) single-mode
- 5

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

EDGE™ 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 dust caps on the rear side of the module.



EDGE 2x3 Conversion Module | Photo REN7106



EDGE 4x6 Conversion Module | Photo REN7071

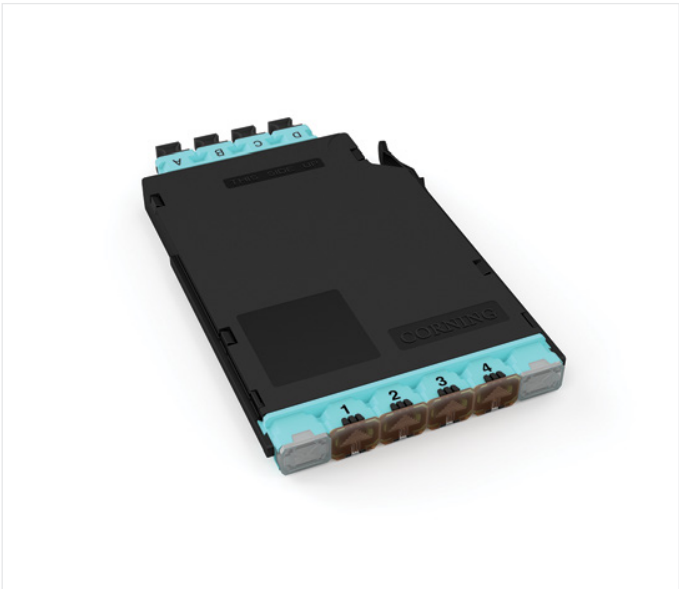
Ordering Information

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™ 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 Multimode Mesh Module | Photo REN890



EDGE Single-Mode Mesh Module | Photo REN899

Ordering Information

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

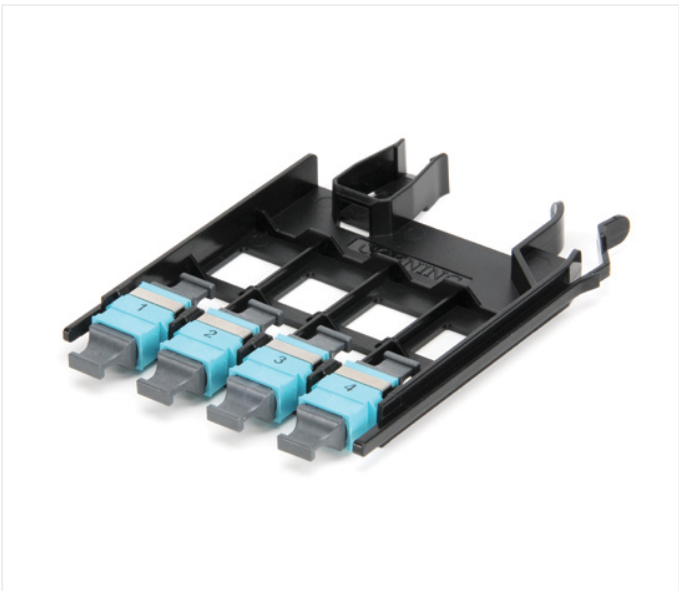
MTP® Adapter Panels

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 when MTP trunks are connected to MTP 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

Ordering Information

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™ 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.

Note: Refer to [AEN164](#) for application information.

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

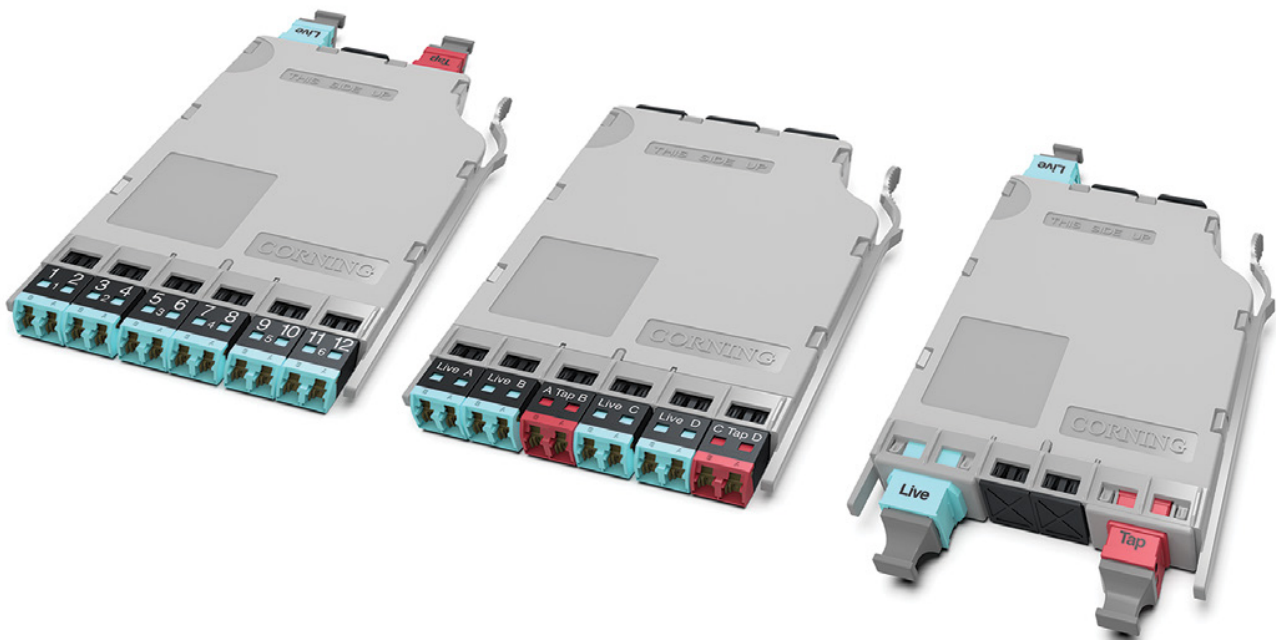
Integrates seamlessly into an existing EDGE solutions infrastructure.

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 (MTP to LC) REN3556 (LC to LC) REN3559 (MTP to MTP)

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.



LC to LC Multimode Tap Module | Photo REN3556



LC to LC Single-Mode Tap Module | Photo REN3563



LC to LC Duplex BiDi Tap Module | Photo REN3554

Multimode		
Part Number	Description	# of Duplex Ports Monitored
ETM-5A-Q	EDGE Tap Module, LC-LC, 50/50 split ratio	2
ETM-5A-Q-BD	EDGE Tap Module, LC-LC, 50/50 split ratio, BiDi	1
ETM-7A-Q	EDGE Tap Module, LC-LC, 70/30 split ratio	2

Single-Mode		
Part Number	Description	# of Duplex Ports Monitored
ETM-5A-G	EDGE Tap Module, LC-LC, 50/50 split ratio	2
ETM-7A-G	EDGE Tap Module, LC-LC, 70/30 split ratio	2

Specs							
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	3.7/3.7	0.15	N/A	4	4
ETM-5A-Q-BD	OM4	50/50	3.7/3.7	0.15	N/A	4	4
ETM-7A-Q	OM4	70/30	1.8/5.8	0.15	N/A	2.1	6.1
ETM-5A-G	OS2	50/50	3.5/3.5	0.25	N/A	4	4
ETM-7A-G	OS2	70/30	2.0/5.8	0.25	N/A	2.5	6.3

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

Multimode		
Part Number	Description	# of Duplex Ports Monitored
ETM-5B-Q	EDGE Tap Module, MTP-LC, 50/50 split ratio	6
ETM-5B-Q-BD	EDGE Tap Module, MTP-LC, 50/50 split ratio, BiDi	6
ETM-7B-Q	EDGE Tap Module, MTP-LC, 70/30 split ratio	6

Single-Mode		
Part Number	Description	# of Duplex Ports Monitored
ETM-5B-G	EDGE Tap Module, MTP-LC, 50/50 split ratio	6
ETM-7B-G	EDGE Tap Module, MTP-LC, 70/30 split ratio	6

Specs							
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-5B-Q	OM4	50/50	3.7/3.7	0.15	0.35	4.2	4.4
ETM-5B-Q-BD	OM4	50/50	3.7/3.7	0.15	0.35	4.2	4.4
ETM-7B-Q	OM4	70/30	1.8/5.8	0.15	0.35	2.3	6.5
ETM-5B-G	OS2	50/50	3.5/3.5	0.25	0.75	4.6	5.1
ETM-7B-G	OS2	70/30	2.0/5.8	0.25	0.75	2.8	7.3

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

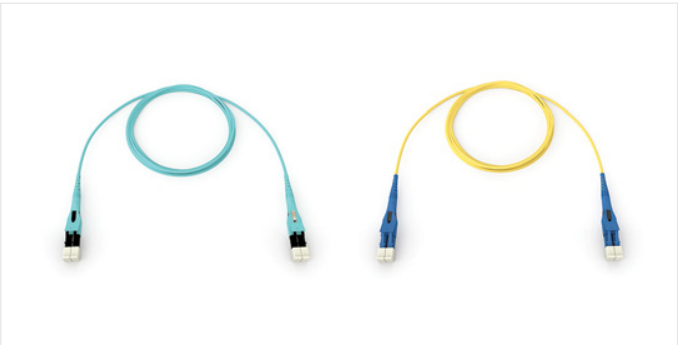
Multimode			
Part Number	Description	# of Duplex Ports Monitored	# of MTP Ports Monitored
ETM-5C-Q	EDGE Tap Module, MTP-MTP, 50/50 split ratio	6	1
ETM-7B-Q	EDGE Tap Module, MTP-MTP, 70/30 split ratio	6	1
ETM-5C-Q-R	EDGE Tap Module, MTP-MTP, 50/50 split ratio, rear tap	6	1
ETM-7B-Q-R	EDGE Tap Module, MTP-MTP, 70/30 split ratio, rear tap	6	1

Single-Mode			
Part Number	Description	# of Duplex Ports Monitored	# of MTP Ports Monitored
ETM-5C-G	EDGE Tap Module, MTP-MTP, 50/50 split ratio	6	1
ETM-7B-G	EDGE Tap Module, MTP-MTP, 70/30 split ratio	6	1
ETM-5C-G-R	EDGE Tap Module, MTP-MTP, 50/50 split ratio, rear tap	6	1
ETM-7B-G-R	EDGE Tap Module, MTP-MTP, 70/30 split ratio, rear tap	6	1

Specs							
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-5C-Q	OM4	50/50	3.7/3.7	N/A	0.35	4.4	4.4
ETM-7B-Q	OM4	70/30	1.8/5.8	N/A	0.35	2.5	6.5
ETM-5C-Q-R	OM4	50/50	3.7/3.7	N/A	0.35	4.4	4.4
ETM-7B-Q-R	OM4	70/30	1.8/5.8	N/A	0.35	2.5	6.5
ETM-5C-G	OS2	50/50	3.5/3.5	N/A	0.75	5	5
ETM-7B-G	OS2	70/30	2.0/5.8	N/A	0.75	3.5	7.3
ETM-5C-G-R	OS2	50/50	3.5/3.5	N/A	0.75	5	5
ETM-7B-G-R	OS2	70/30	2.0/5.8	N/A	0.75	3.5	7.3

Reverse Polarity Uniboot Duplex Jumpers

EDGE™ reverse polarity uniboot duplex jumpers allow for the 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.



Reverse Polarity Uniboot Duplex Jumpers | Photos REN6462 and REN6461

Features

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

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

02

D

20

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 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

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.



EDGE™ Reverse Polarity Uniboot LC Duplex Clips | Photo LAN2254

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

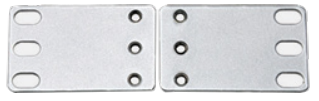
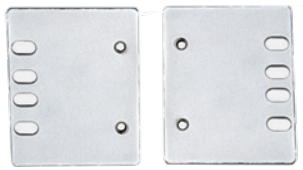
Note: Must order in multiples of 100.

EDGE™ Solutions

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	

Housing Accessories			
Part Number	Product Description	Units per Delivery	
EDGE8-TRAY-QTY1	EDGE8® Hardware Accessory, EDGE8 tray kit, quantity of 1	1/1	
EDGE8-TRAY-QTY12	EDGE8 Hardware Accessory, EDGE8 tray kit, quantity of 12	12/1	
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-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	

EDGE™ Solutions

Housing Accessories (continued)			
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	
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	
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	

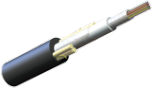
EDGE™ Solutions

Housing Accessories (continued)			
Part Number	Product Description	Units per Delivery	
PC4-BKT-23	EDGE™ Solutions Mounting Bracket for mounting 4U housings into 23-in racks or cabinets	1/1	
EDGE-01U-FLSH-BKT	EDGE Extension and Flush-Mount Bracket for EDGE-01U	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-CCHBKT-1	Bracket to hold one EDGE solutions module that fits into Plug & Play™ housings	1/1	
EDGE-CCHBKT-2	Bracket to hold two EDGE solutions module that fits into Plug & Play housings	1/1	
EDGE-EMOD-STRN	EDGE Solutions Strain-Relief Bracket, EMOD, 1U	1/1	

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-NO PINS	MTP PRO Pin Exchanger Kit, SM 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-NO PINS	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	

Preterminated Multiuse Platform

A Fiber Optic Feeder Cable



Coming changed communications when we invented low-loss optical fiber, and we continue to lead the industry in product quality and innovation. Our outdoor cables are engineered to withstand your most challenging fiber optic applications, from environmental extremes to mechanical forces. Whether aerial or buried, we have the fiber count, quality, and reliability your network demands.

Part Number	Description
Ribbon Cable	
xxxZCS-14100D53	SST-Ribbon™ Gel-Free, Armored Cable, SMF-28® Ultra fiber, (144-864 fibers)
xxxEC4-14100D53	SST-Ribbon Gel-Free, All-Dielectric, Non-Armored Cable, SMF-28e+® (172-236 fibers)
xxxEC5-14100D53	SST-Ribbon Gel-Free, Single-Jacket/Single-Armor Cable, SMF-28e+ (172-236 fibers)
xxxEV4-14100D53	SST-UltraRibbon™ Gel-Free, All-Dielectric, Non-Armored Cable, SMF-28e+ (288-864 fibers)
xxxEV5-14100D53	SST-UltraRibbon Gel-Free, Single-Jacket/Single-Armor Cable, SMF-28e+ (288-864 fibers)
xxxZCS-14100D53	SST-Ribbon, Gel Free, Armored Cable, SMF-28 Ultra fiber, (144-864 fibers)

B Central Office



The Centrix™ hardware system is specifically designed for high-density FTTx applications and is available with a variety of splitter and WDM solutions that can be collocated within the same hardware frame.

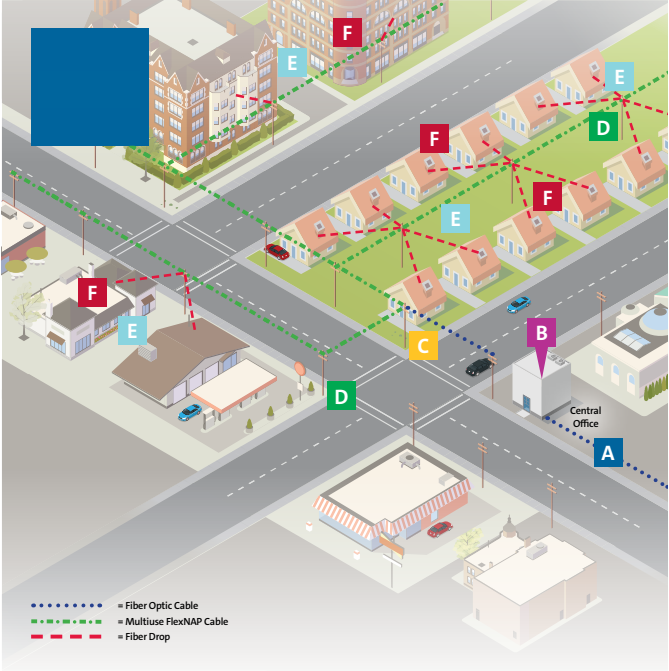
Part Number	Description
Fiber Hardware	
CTX-SA-FRAME-7	Standard Rear Cable Access Frame, 7 ft
CTX-S4U	Centrix Housing, 4U, 12 cassette positions, empty
CTXCP24-6C-28H+000	Centrix Splice Cassette, 24 SC APC adapters and single-mode pigtails, MIC® 900 µm standard single-mode pigtails
CX4U8P24-6C-28H+000	Centrix Splice Housing, 4U, 288 F, 12 cassettes each with 24 SC APC adapters and single-mode pigtails, MIC 900 µm standard single-mode pigtails

C Local Convergence Point/Fiber Distribution Hub



The OptiNet® Local Convergence Cabinet, MC Series is a preterminated, lightweight, pole-mounted cabinet. This cabinet houses splitters for the first layer split of a distributed split PON architecture and has available ports for pass-through of fiber to support other business services or wireless backhaul needs.

Part Number	Description
Closure and OptiTap® Pigtail	
SCF-6C28-01-F	Splice Closure, 192 single-fiber or 384 ribbon fiber splice capacity 6-in diameter, 28-in dome length, four drop ports (holds four SCF-ST-077 trays not included)
SCF-ST-077	Dual-Purpose Splice Tray for use in SCF closure
00M212EB4D1ExxxF-P	12-Fiber Flat Drop Cable Pigtail with one end terminated with OptiTap connector xxx ft
Cabinet	
MG44C100-VC100	Preterminated MC Series Cabinet with 48 feeder fibers (via four OptiTap stubs) and 120 distribution fibers (via 10 OptiTap stubs), 48 express/bypass patch panel, variable splitting options offer total serving capacity from 120 to 768 depending upon configuration
M151A6C06C0104	Splitter for MC Series, WB, (1) 1x4 adapter SC APC in/out
M151A6C06C01018	Splitter for MC Series, WB, (1) 1x8 adapter SC APC in/out
M151A6C06C01032	Splitter for MC Series, WB, (1) 1x32 adapter SC APC in/out (coming soon)



D Distribution & Terminal Access Point



Coming's FlexNAP™ system now accommodates preterminated ends for connecting to the MC series cabinet and laterally to other FlexNAP system cable extensions. The multiuse FlexNAP system offers the ability to configure home run, centralized, and distributed split architectures in the same system for optimal flexibility in supporting business, residential, and wireless services. Additionally, it utilizes self-supporting RPX® ribbon cable for low-cost aerial installations.

Part Number	Description
Multiuse FlexNAP Distribution System	
Preterminated Mount to Cabinet	
PLCP-DxxEVM1	OptiTap Pretermination for RPX cable, xx indicates 12, 24, 36, or 48 fibers
Terminal Access Point	
FSDTA04431N00xxF	FlexNAP Terminal Access Point for dielectric RPX cable, 4 x 1 F OptiTap® tether, staggered xx ft (10 or 15) on center
FSV4AxxM21N005F	FlexNAP Terminal Access Point for dielectric RPX cable, aerial, 1 OptiTap tether, xx indicates 04, 08, 12 fibers
In-Line Tether Extender	
434801EB1TDxxoxF-P	OptiTap (male) to OptiTap (female) Tether Extender, toneable flat drop cable, single fiber, xxx ft
M1M212EB4D1ExxxF-P	OptiTap (male) to OptiTap (female) Tether Extender, dielectric flat drop cable, 12 fibers, xxx ft
RPX Cable Accessories	
AB910	Clamp Drop Cable Dead End, Box of 25
RPX-DEADEND-E1	Mechanical Wedge Dead End for RPX cable, used in self-support applications, Box of 10
RPX-SUSP-H1	RPX Suspension Clamp, Box of 10

E Terminal



A variety of terminal offerings are available to mate to OptiTap® or OptiTap® connector tethers, including traditional sealed terminals as well as MDU housings in both standard and splitter versions.

Part Number	Description
Splitter Terminals	
Outside Plant Splitter Terminals	
MTS-F844NS000MW	OptiSheath® MultiPort Stubless Splitter Terminal, 1x8 splitter, OptiTap input
MTS-H444NS000MW	OptiSheath MultiPort Stubless Splitter Terminal, 1x4 splitter, OptiTap input
MDU Splitter Terminals	
MSF-xx4848R43F-P	OptiSheath MultiPort Flex Splitter Terminal, OptiTap input port, xx indicates 02, 04, or 08 (1-2, 1-4 or 1-8) split ratio, single-fiber female OptiTap per leg
LPTFDS000000006C-H	Low-Profile MDU Terminals with OptiTap® connector, (1) 1-4 splitter, 8 ports, grommets
LPT-DS000000006C-F	Low-Profile MDU Terminals with OptiTap connector, (1) 1-8 splitter, 8 ports, grommets
Standard Terminals	
Outside Plant Standard Terminals	
MTB-xx44FD010FW-P	OptiSheath MultiPort Terminal, OptiTap stub, 10 ft, xx indicates 04, 08, or 12 port, single fiber per port
MTF-xx48FD010F-P	OptiSheath MultiPort Flex Terminal, OptiTap stub, 10 ft, xx indicates 04, 08, or 12 ports, single-fiber female OptiTap per leg
MF02-M177xxEB45500F	OptiSheath MultiPort MF2 Terminal, OptiTap stub, 500 ft, xx indicates 02, 04, or 06 ports, two-fiber OptiTap connectors per port
MDU Standard Terminals	
MDU0000xx6C-00M22Q	OptiSheath MDU Terminal, OptiTap input ports, xx indicates 12, 24, 36, or 48 fiber capacity, SC APC distribution panel, no pigtails

F Drop Cable



Coming's drop cable portfolio and associated assemblies allow for full plug-and-play at the subscriber premises and also support field-installable terminations.

Part Number	Description
Drops	
004301EB49RxxoxF-P	OptiTap ROC™ Drop Cable Pigtail with FastAccess® technology, 900 µm, 1 F, dielectric, xxx ft
004301EB19RxxoxF-P	OptiTap ROC Drop Cable Pigtail with FastAccess technology, 900 µm, 1 F, toneable, xxx ft
434401EB49RxxoxF-P	OptiTap ROC Drop Cable Assembly, OptiTap to SC APC, 900 µm, 1 F, dielectric, xxx ft
434401EB19RxxoxF-P	OptiTap ROC Drop Cable Assembly, OptiTap to SC APC, 900 µm, 1 F, toneable, xxx ft
434301EB4FDxxoxF-P	OptiTap SST-Drop® Cable Assembly, OptiTap to OptiTap connector, dielectric, xxx ft
434301EB1TDxxoxF-P	OptiTap SST-Drop Cable Assembly, 1 F, OptiTap to OptiTap connector, toneable, xxx ft
434401EB4FDxxoxF-P	OptiTap SST-Drop Cable Assembly, 1 F, OptiTap connector to SC APC, dielectric, xxx ft
434401EB1TDxxoxF-P	OptiTap SST-Drop Cable Assembly, 1 F, OptiTap connector to SC APC, toneable, xxx ft

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