CORNING

EDGE™ Solutions

EDGE™ Solutions Introduction

Data centre operators have an exhaustive list of desirable parameters they employ to ensure their facilities' smooth and efficient operation, 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's multi-award-winning EDGE™ solutions are high-density pre-terminated optical cabling solutions that simplify installation and improve performance in the data centre environment. EDGE solutions provide increased system density when compared to traditional pre-terminated systems and offer the highest port density in the market. Corning® ClearCurve® bend-optimised optical fibre 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 centre. At the same time, while the pre-terminated 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 consistently high quality. EDGE solutions consist of an extensive range of housings, trunks, modules, adapter panels, harnesses, patch cords, 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 current and future data rates' requirements. Scalability enables the physical expansion of the data centre to additional servers, switches, or storage devices and 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 40/100/400/800G 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 traffic monitoring method being transmitted and received along a link in a network providing real-time visibility. This method can be done actively through electronic devices that can replicate and send the link's data to the monitoring device (also called mirroring or spanning). Alternatively, it can be done through passive optical taps or port taps, transmitting all the data to the intended recipient and a monitoring device simultaneously. filters the data and send 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, except TAP modules and 24-fibre 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 optimised dust caps engineered to maintain the end-face cleanliness until the first mating connection. CleanAdvantage eliminates the need for scoping and cleaning before the initial field connection, reducing installation time and cost.

Contents

EDGE™ Solutions Overview

EDGE™ solutions are high-density pre-terminated 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 REN1128

Features and Benefits

Removable covers on the 1U and 2U housing
Provide easier access to modules and panels.

EDGE™ reverse polarity Uniboot patch cords
Enable 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
Provide easier cable management.

MTP® PRO connector & push-pull boot
Allows for pinning and polarity change in the field while enabling easier mating and unmating in extremely dense applications.

MTP assemblies with reduced footprint and cable OD
Reduce congestion in high-connectivity environment.

Corning® ClearCurve® fibre 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 optimised dust caps
Eliminate the need for scoping and cleaning prior to initial field connection.

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

EDGE™ Rear Access ODF

The 19-inch optical distribution frames (ODF) are optimised for high-density, cross-connect or interconnect 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 a total capacity of 2,880 LC duplex or 5,760 MTP ports.

The frame has been designed with modular patch cord management plates and segmented hubs. A single 4-metre patch cord length allows patching from any port to any other port on the dual- or single-frame configuration. Gravity-managed slack storage ensures single individual patch cords can be added or removed in less than two 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. The ODF is available as flat pack or pre-assembled for fast deployment.

Features and Benefits

Quick and easy installation for 19" housings
Easily scalable single or dual frames and cabinets. Flat packs can be quickly assembled by a single installer.

One patch cord for all cross-connect applications
A single 4-metre patch cord 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 pre-terminated trunks.

Accepts various 19" housing types
Accommodates fully pre-terminated, semi-preconnectorized and splicing solutions, as well as pre-stubbed housings to simplify installation.

Cable entry on left/right or both sides
Allows flexibility of installation and access.

Full protection with long doors & side walls and lock available
Helps to prevent unauthorised access

EDGE™ Rear Access ODF Dual Frame | Photo REN9402

EDGE™ Rear Access ODF

EDGE™ Rear Access ODF Dual Cabinet | Photos REN9402

EDGE Rear Access ODF Dual Frame | Photos REN9399

EDGE Rear Access ODF Single Cabinet | Photos REN9396

EDGE Rear Access ODF Single Frame | Photos REN9390

Ordering Information

EDG - CAB ☐ -R ☐☐ ☐☐ ☐ ☐ ☐ ☐ ☐

1 2 3 4 5 6 7 8

1 Select Cabinet Configuration.
Empty = Single
2 = Double

2 Select Height.
22= 2200 mm
7F = 7 feet

3 Select Width.
09 = 900 mm
12 = 1200 mm
18 = 1800 mm

4 Select Walls.
N = No side walls, no rear wall
P = Rear hanging doors and side walls
S = Side walls only

5 Select Doors.
N =No doors
G = Doors with acrylic glass window, with lock
M = Doors, full metal, with lock

6 Select Cable Entry.
L = Cable Entry on the left
R = Cable Entry on the right
B = Cable Entry on both sides, left & right (for 1200 mm only)

7 Select Cabinet pre-installation.
A = pre-assembled for speedy deployment
N = flat packed, non assembled

8 Select bottom channel option.
B = Bottom channel
N = No bottom channel (closed bottom area)

Examples:
EDG-CAB-R2209NNLAB EDGE™ Single Frame H2200 x W900 x D600, left cable entry, no side walls, no doors, with bottom channel, pre-assembled

EDG-CAB2R2218PGRNB EDGE Dual Cabinet H2200 x W1800 x D600, both sides cable entry, with side walls, door with acrylic glass window, with bottom channel, flat-packed

EDGE™ ODF Accessories

Short Door for Single ODF | Photo REN3824

Long Door for Single ODF | Photo REN3834

Long Doors for Dual ODF | Photo REN3842

The EDGE™ cabinet door kits offer the best protection against unauthorised access to the patch areas of the cabinets. With hang and swing doors, there are different access options available to suit the environment. Long and short doors have a bottom channel function for easy routing of patch cords across cabinets in a row.

Available Options:

- 900 mm single cabinets
- 1,200 mm interconnect cabinets
- 1,800 mm dual cabinets

Ordering Information

CAB - DR	22	☐☐	☐	☐	☐
	1	2	3	4	5

1 Select frame height.
22 = 2,200 mm
7F = 7 feet

2 Select width.
09 = 900 mm
12 = 1,200 mm
18 = 1,800 mm

3 Select door type.
H = Hanging door
S = Swing door with look

4 Select door material.
M = Metal door
G = Acrylic glass door with look

5 Select door length.
B = Short door*
N = Long door

*Short door enables bottom channel access

EDGE™ ODF Accessories (Continued)

Part Number	Product Description	Units per Delivery	
CAB-WL2206SB	Side Wall Kit for 2,200 mm cabinet, short	1/1	
CAB-WL2206SN	Side Wall Kit for 2,200 mm cabinet, long	1/1	
CAB-WL2209RN	Rear Wall Kit for cabinet 2,200 x 900 mm	1/1	
CAB-WL2212RN	Rear Wall Kit for cabinet 2,200 x 1,200 mm	1/1	
CAB2DR2218HMN	Hanging Door Set 2,200 mm, 3 x 600 mm, full length	1/1	
CAB-BG-19D	Adjustable Top Bridge for connecting of cabinet rows 128-190 cm	2/1	
OLM-CAB-F2206NNNAB	Overlength Management Frame, 2,200 x 600 x 300 mm (H x W x D), no walls, no doors, bottom channel, top bridge interface, assembled	1/1	
CAB-FC	Screw Set for back-to-back or side-by-side cabinet connection	1/1	
CAB-MTWL	Cabinet Wall-Mounting Kit	1/1	
CAB-MTRF-00	Raised Floor-Mounting Kit – tile	1/1	
CAB-MTRF-05	Raised Floor-Mounting Kit – 0.5 m	1/1	
CAB-MTRF-12	Raised Floor-Mounting Kit – 1.2 m	1/1	

EDGE™ ODF Accessories (Continued)

Part Number	Product Description	Units per Delivery	
CAB-SR-TRK	One Strain-Relief Bracket for trunk cable	1/1	
CAB-RF-03	EDGE CAB top CBL ENT plate	1/1	
CAB-DP-A4	Document Pocket for A4 paper	1/1	
CAB-HB	Routing Hub, Four Segments, One Cover, including coloured number sticker	1/1	
CAB-LB-S1210	Cabinet Labels, 12 x 1-10, coloured, small	1/1	
CAB-RF01	Brushes for patch cord area	1/1	

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 patch cords.

EDGE-01U-SP | Photo LAN6694

EDGE-01U-SP | Photo LAN7370

EDGE-02U | Photo LAN6656

EDGE-04U | Photo LAN6680

Features and Benefits

Sliding drawers

Allow unprecedented finger access, easier patch cord/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

Provide 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-SP
  72x LC duplex ports (144 fibre)
  72x MTP ports (576 fibre)
- 2U EDGE Housing EDGE-02U
  144x LC duplex ports (288 fibre)
  144x MTP ports (1152 fibre)
- 4U EDGE Housing EDGE-04U
  288x LC duplex ports (576 fibre)
  288x MTP ports (2304 fibre)

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-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 the rear strain-relief plate is removed from part number EDGE-01U-SP, the product depth reduces to 14.9 in/37.8 cm.
- 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 patch cords 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 REN3546

EDGE-02U-FP | Photo REN1610

EDGE-04U-FP | Photo REN1575

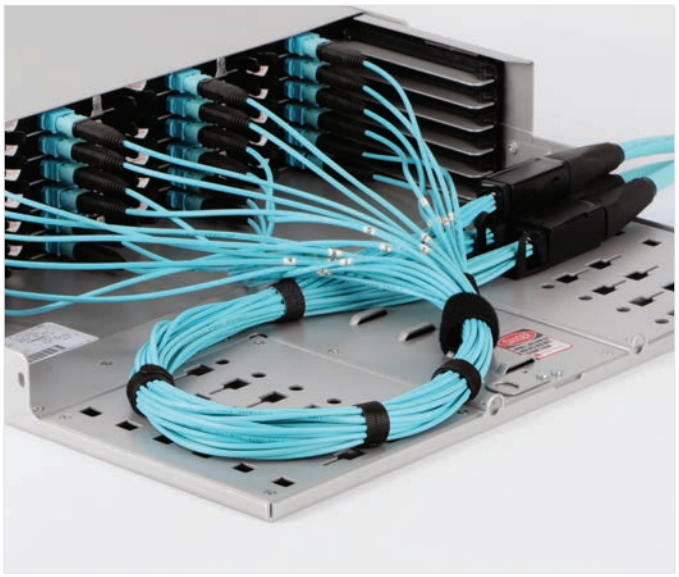
EDGE-SMH | Photo REN3548

EDGE-FZB-04U | Photo LAN1868

For housing and trunk mounting accessories, please refer to the accessories section at the back of this brochure.

EDGE™ MTP® PRO Trunks

EDGE™ trunks are pre-terminated cables available in MTP® to MTP, MTP to LC, and LC to LC configurations, these trunks provide the backbone of the passive network infrastructure and enable rapid deployment for your campus LAN or data centre 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
Provide easier cable management.

Small outer diameter
Improves cable tray fill ratio and allows for improved airflow.

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

MTP PRO connector & push-pull boot
Allows for pinning and polarity change in the field while enabling easier mating and unmating in extremely dense applications

Corning CleanAdvantage technology and optimised dust caps
Eliminates the need for scoping and cleaning prior to initial field connection.

EDGE MTP to MTP Trunk | Photos REN7793

EDGE MTP to LC Hybrid Trunk | Photos REN7796

EDGE LC to LC Trunk | Photo LAN7262

For housing and trunk mounting accessories, please refer to the accessories section at the back of this brochure.

EDGE™ Trunks Specifications

EDGE™ Trunks Mechanical Characteristics								
Fibre Count	Nominal Outer Diameter	Weight	Min. Bend Radius - Operation	Min. Bend Radius - Installation	Crush Resistance (Reversible)	Max. Tensile Strength	Fire Load	Pulling Grip Outer Diameter
12	4.5 mm	20 kg/km	45	90	1000N/10 cm	450N	0.4 MJ/m	38 mm
24	7.2 mm	38 kg/km	72	144	1000N/10 cm	450N	0.72 MJ/m	38 mm
36	7.5 mm	43 kg/km	75	150	1000N/10 cm	450N	0.83 MJ/m	38 mm
48	8.5 mm	58 kg/km	85	170	1000N/10 cm	450N	1.12 MJ/m	54 mm
72	9 mm	69 kg/km	90	180	1000N/10 cm	660N	1.34 MJ/m	54 mm
96	10 mm	81 kg/km	100	200	1000N/10 cm	660N	1.59 MJ/m	54 mm
144	11.1 mm	102 kg/km	111	222	1000N/10 cm	660N	1.98 MJ/m	54 mm
EDGE High-Fibre-Count Trunks								
192	12.9 mm	133 kg/km	129	258	1000N/10 cm	660N	1.98 MJ/m	38 mm
288	15.2 mm	186 kg/km	152	304	1000N/10 cm	660N	1.98 MJ/m	64 mm
384	15.2 mm	214 kg/km	152	304	1000N/10 cm	660N	1.98 MJ/m	90 mm
432	17.6 mm	235 kg/km	176	352	1000N/10 cm	660N	1.98 MJ/m	90 mm
576	25.5 mm	452 kg/km	128	383	1000N/10 cm	660N	1.98 MJ/m	90 mm

Optical Performance

Multimode				
Trunks	Reflectance Connector A	Reflectance Connector B	Max. Insertion Loss Connector A	Max. Insertion Loss Connector B
MTP®-MTP	≤ -20 dB	≤ -20 dB	≤ 0.25 dB	≤ 0.25 dB
MTP-LC Duplex Uniboot	≤ -20 dB	≤ -20 dB	≤ 0.25 dB	≤ 0.10 dB
LC Duplex Uniboot-LC Duplex Uniboot	≤ -20 dB	≤ -20 dB	≤ 0.10 dB	≤ 0.10 dB
Single-Mode				
MTP-MTP	≤ -65 dB	≤ -65 dB	≤ 0.35 dB	≤ 0.35 dB
MTP-LC Duplex Uniboot (UPC)	≤ -65 dB	≤ -35 dB	≤ 0.35 dB	≤ 0.25 dB
MTP-LC Duplex Uniboot (APC)	≤ -65 dB	≤ -58 dB	≤ 0.35 dB	≤ 0.25 dB
LC Duplex Uniboot-LC Duplex Uniboot (UPC)	≤ -35 dB	≤ -35 dB	≤ 0.25 dB	≤ 0.25 dB
LC Duplex Uniboot-LC Duplex Uniboot (APC)	≤ -58 dB	≤ -58 dB	≤ 0.25 dB	≤ 0.25 dB

Ultra-Low-Loss configurations available on request.

Connector insertion-loss values are for reference as Corning tests the complete trunk including both MTP connectors.

Trunk Shipping Information For All Connector Types

Packaging Method			Cardboard Box	Reel AA	Reel A	Reel B	Reel C	Reel Y	Reel T
Reel Flange (mm)				496	496	496	496	600	780
Reel Core (mm)				302	302	302	302	415	480
Reel Width (mm)				100	178	305	457	300	400
Fibre Count	Fibre Count Code	Trunk Type	No Pulling Grip Option - Z (m)						
12	-	MTP®, Hybrid, SFC	2-30	30-500	500.5-900			900.5-999	
24	-	MTP, Hybrid, SFC	2-30	30-200	200.5-350	350-5-600	600.5-670	670.5-999	
36	-	MTP, Hybrid, SFC	2-30	30-200	200.5-350	350-5-600	600.5-670	670.5-999	
48	-	MTP	2-30	30-150	150.5-265	265.5-450	450.5-500	500.5-599.5	600-999
		Hybrid, SFC						500.5-999	
72	-	MTP	2-30	30-150	150.5-265	265.5-450	450.5-500	500.5-599.5	600-999
		Hybrid, SFC						500.5-999	
96	-	MTP	2-30	30-80	80.5-145	145.5-245	245.5-300	300.5-399.5	400-999
		Hybrid, SFC						300.5-999	
144	E4	MTP	2-30	30-80	80.5-145	145.5-245	245.5-300	300.5-399.5	400-999
		Hybrid, SFC						300.5-999	
Fibre Count	Fibre Count Code	Trunk Type	One Side Pulling Grip Option - G (m)						
12	-	MTP, Hybrid, SFC	2-30	30-200	200.5-400	400.5-700		700.5-999	
24	-	MTP	2-30	30-90	90.5-160	160.5-280	280.5-420	420.5-699.5	700-999
		Hybrid, SFC						420.5-999	
36	-	MTP	2-30	30-90	90.5-160	160.5-280	280.5-420	420.5-699.5	700-999
		Hybrid, SFC						420.5-999	
48	-	MTP	2-30	30-65	65.5-120	120.5-200	200.5-300	300.5-599.5	600-999
		Hybrid, SFC						300.5-999	
72	-	MTP	2-30		30-120	120.5-200	200.5-300	300.5-599.5	600-999
		Hybrid, SFC						300.5-999	
96	-	MTP	2-30		30-70	70.5-120	120.5-200	200.5-299.5	300-999
		Hybrid, SFC				30-70	70.5-120	120.5-200	200.5-999
144	E4	MTP	2-30		30-70	70.5-120	120.5-200	200.5-299.5	300-999
		Hybrid, SFC				30-70	70.5-120	120.5-200	200.5-999
Fibre Count	Fibre Count Code	Trunk Type	Both Sides Pulling Grip Option - D (m)						
12	-	MTP	2-30		30-400	400.5-700		700.5-999	
24	-	MTP	2-30		30-160	160.5-280	280.5-420	420.5-699.5	700-999
36	-	MTP	2-30		30-160	160.5-280	280.5-420	420.5-699.5	700-999
48	-	MTP	2-30		30-120	120.5-200	200.5-300	300.5-599.5	600-999
72	-	MTP	2-30		30-120	120.5-200	200.5-300	300.5-599.5	600-999
96	-	MTP	2-30		30-70	70-120	120.5-200	200.5-299.5	300-999
144	E4	MTP	2-30		30-70	70-120	120.5-200	200.5-299.5	300-999

High-Fibre-Count Trunk Shipping Information For All Connector Types

Packaging Method		Reel P1	Reel P2	Reel D	Wood Reel
Reel Flange (mm)				496	496
Reel Core (mm)				302	302
Reel Width (mm)				100	178
Fibre Count	Fibre Count Code	No Pulling Grip Option - Z (m)			
192	K2	2-110	100.5-180	180.5-300	
216	M6	2-85	85.5-165	165.5-280	280.5-300
288	U8	2-65	65.5-130	130.5-220	220.5-300
384	AE	2-45	45.5-100	100.5-180	180.5-300
432	AK	2-35	35.5-80	80.5-160	160.5-300
576	AZ	2-20	20.5-40	40.5-80	80.5-300
Fibre Count		One Side Pulling Grip Option - G (m)			
192	K2	2-10	10.5-45	45.5-315	
216	M6	2-10	10.5-45	45.5-280	280.5-300
288	U8	2-10	10.5-40	40.5-220	220.5-300
384	AE	2-10	10.5-35	35.5-180	180.5-300
432	AK	2-10	10.5-35	35.5-160	160.5-300
576	AZ	2-5	5.5-25	25.5-80	80.5-300
Fibre Count		Both Sides Pulling Grip Option - D (m)			
192	K2	2-10	10.5-45	45.5-315	
216	M6	2-10	10.5-45	45.5-280	280.5-300
288	U8	2-10	10.5-40	40.5-220	220.5-300
384	AE	2-10	10.5-35	35.5-180	180.5-300
432	AK	2-10	10.5-35	35.5-160	160.5-300
576	AZ	2-5	5.5-25	25.5-80	80.5-300

EDGE™ MTP® PRO Trunks

EDGE™ MTP® trunks provide the backbone of the EDGE solution. With non-pinned MTP PRO connectors with push-pull boot 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. These trunks conform to TIA-568 Type-B polarity.

EDGE MTP Trunk | Photo REN7793

Ordering Information

□	□□	□□	□□	□	L Z	□	□	□	□□□	M
1	2	3	4	5	6	7	8	9	10	

1 Select grip.
G = Grip on first end only (packaged outside of reel)
D = Grip on both ends
Z = No grip

2 Select non-pinned MTP connector for first end (packaged outside reel).
75 = MTP multimode low-loss
90 = MTP APC single-mode
00 = Pigtail*

3 Select non-pinned MTP connector for second end (packaged inside reel).
75 = MTP multimode low-loss
90 = MTP APC single-mode
00 = Pigtail*

4 Select fibre count.
12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres

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

6 Defines cable type.
LZ = Low-smoke, zero-halogen, FRNC

7 Defines trunk furcation leg length for first end.
8 = 840 mm (+70/-0 mm)‡
0 = Pigtail†

8 Defines trunk furcation leg length for second end.
8 = 840 mm (+70/-0 mm)†
0 =Pigtail‡

9 Select trunk type.
U = Standard Type-B
P = Straight-through Type-A

10 Select overall length in metres. 002-999
Trunk length is measured from furcation plug to furcation plug (+1/-0 m)

For OM4 heather violet, please add -VI at the end of the part number.

* Pigtail trunk with no pulling grip available with MTP connector code on catalouge number scheme digit #3

* Pigtail trunk with pulling grip available with MTP connector code on catalouge number scheme digit #2

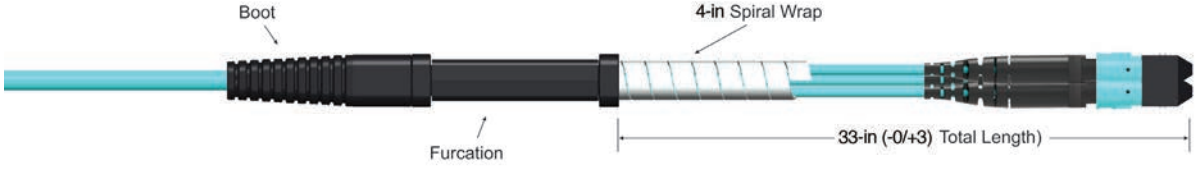
* Pigtail available on straight polarity only

† Use when pigtail was indicated under second digit

‡ Use when pigtail was indicated under third digit

Example of non-pulling grip: Z900048GLZD0P020M

Example of pulling grip: G009048GLZ0DP020M



EDGE Solutions Trunk Cable | Drawing ZA-3496

High-Fibre-Count EDGE™ MTP® PRO Trunks

EDGE High-Fibre-Count MTP Trunk | Photo REN7794

Ordering Information

□ □□ □□ □□ □ L Z □ □ □ □□□ M

1 2 3 4 5 6 7 8 9 10

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

2 Select non-pinned MTP connector for first end.
(packaged outside reel)
75 = MTP multimode low-loss
90 = MTP APC single-mode
00 = Pigtail*

3 Select non-pinned MTP connector for second end.
(packaged inside reel)
75 = MTP multimode low-loss
90 = MTP APC single-mode
00 = Pigtail*

4 Select fibre count.
K2 = 192 fibres
M6 = 216 fibres
U8 = 288 fibres
AE = 384 fibres
AK = 432 fibres
AZ = 576 fibres

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

6 Defines cable type.
LZ = Low-smoke, zero-halogen, FRNC

7 Defines trunk furcation leg length for first end.
D = 840 mm (+140/-0 mm)‡
C = 1500 mm (+140/-0 mm)‡
0 = Pigtail†

8 Defines trunk furcation leg length for second end.
D = 840 mm (+140/-0 mm)†
C = 1500 mm (+140/-0 mm)†
0 = Pigtail‡

9 Select trunk type.
U = Standard Type-B
P = Straight-through Type-A

10 Select overall length in metres.
002-300
Trunk length is measured from furcation plug to furcation plug (+1/-0 m)

For OM4 heather violet, please add -VI at the end of the part number.

* Pigtail trunk with no pulling grip available with MTP connector code on catalouge number scheme digit #3

* Pigtail trunk with pulling grip available with MTP connector code on catalouge number scheme digit #2

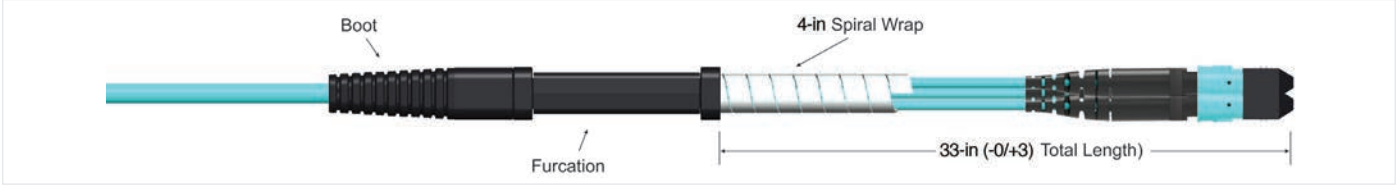
* Pigtail available on straight polarity only

† Use when pigtail was indicated under second digit

‡ Use when pigtail was indicated under third digit

Example of non-pulling grip: Z9000U8GLZD0P020M

Example of pulling grip: G0090U8GLZ0DP020M



EDGE Solutions Trunk Cable | Drawing ZA-3496

EDGE™ MTP® PRO Extender Trunks

EDGE™ MTP® PRO extender trunks provide additional distance for the backbone of the EDGE solution. With a non-pinned MTP PRO connector with push-pull boot on one end of the cable and a pinned MTP connector on the other end, these trunks are designed to interface with an EDGE solutions or Plug & Play™ systems module and MTP trunk. All trunks are manufactured with Corning® CleanAdvantage™ technology and shipped with strain-relief clips that allow for the tool-less installation in both EDGE solutions and Plug & Play systems housings. Most often these extender trunks will be used in a zone distribution area (ZDA). These trunks conform to TIA-568 Type-A polarity.

EDGE MTP Extender Trunk MM and SM | Photos REN7954 and REN7953

Ordering Information

□	□□	□□	□□	□	L Z	□	8	X	□□□	M
1	2	3	4	5	6	7	8		9	

1 Select grip.
G = Grip on first end only (packaged outside of reel)
D = Grip on both ends
Z = No grip

2 Select pinned MTP connector for first end.
(packaged outside reel)
93 = MTP multimode low-loss
89 = MTP APC single-mode

3 Select non-pinned MTP connector for second end.
(packaged inside reel)
75 = MTP multimode low-loss
90 = MTP APC single-mode

4 Select fibre count.
12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres

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

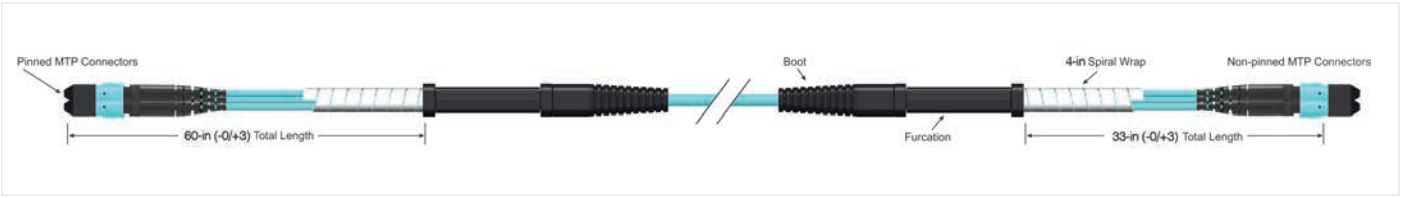
6 Defines cable type.
LZ = Low-smoke, zero-halogen, FRNC

7 Select trunk furcation leg length for first end to front of panel.
(packaged outside reel)
B = 1000 mm (+70/-0 mm), for EDGE 4U housing
C = 1500 mm (+70/-0 mm), for EDGE 1U housing

8 Defines trunk furcation leg length for second end to rear of panel.
(packaged inside reel)
8 = 840 mm (+70/0 mm)

9 Select overall length in metres. 002-999
Trunk length is measured from furcation plug to furcation plug (+1/-0 m)

For OM4 heather violet, please add -VI at the end of the part number.



EDGE Extender Trunk Configuration | Drawing ZA-3869

High-Fibre-Count EDGE™ MTP® PRO Extender Trunks

EDGE High-Fibre-Count MTP Extender Trunk | Photos REN7793

Ordering Information

□	□□	□□	□□	□	L Z	□	8	X	□□□	M
1	2	3	4	5	6	7	8		9	

1 **Select grip.**
G = Grip on first end only (packaged outside of reel)
D = Grip on both ends
Z = No grip

2 **Select pinned MTP connector for first end.** (packaged outside reel)
89 = MTP APC single-mode
93 = MTP multimode low-loss

3 **Select non-pinned MTP connector for second end.** (packaged inside reel)
90 = MTP APC single-mode
75 = MTP multimode low-loss

4 **Select fibre count.**
K2 = 192 fibres
M6 = 216 fibres
U8 = 288 fibres
AE = 384 fibres
AK = 432 fibres
AZ = 576 fibres

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

6 **Defines cable type.**
LZ = Low-smoke, zero-halogen, FRNC

7 **Defines trunk furcation leg length for first end.**
D = 840 mm (+140/-0 mm)
C = 1500 mm (+140/-0 mm)

8 **Defines trunk furcation leg length for second end to rear of panel.** (packaged inside reel)
8 = 840 mm (+140/0 mm)

9 **Select overall length in metres. 002-300**
Trunk length is measured from furcation plug to furcation plug (+1/-0 m)

For OM4 heather violet, please add -VI at the end of the part number.

EDGE™ Hybrid MTP® PRO to LC Uniboot Trunks

EDGE™ Hybrid MTP® PRO to LC uniboot trunks combine non-pinned MTP PRO connectors with push-pull boot that connect to EDGE modules and duplex uniboot LC connectors that connect directly to the electronics enabling more options for the cabling of data centres. These hybrid trunks are most often used in a zone distribution area (ZDA). All trunks are manufactured with Corning® CleanAdvantage™ technology and shipped with strain-relief clips that allow for the tool-less installation in both EDGE solutions and Plug & Play™ system housings.

EDGE MTP Hybrid Trunk | Photo REN7796

Ordering Information

□	□□	□□	□□	□	L Z	8	□	W	□□□	M
1	2	3	4	5	6	7	8		9	

1 Select grip.
G = Grip on first end only (packaged outside of reel)
Z = No grip

2 Select non-pinned MTP connector for first end.
(packaged outside reel)
75 = MTP multimode low-loss
90 = MTP APC single-mode

3 Select LC connector for second end.
(packaged inside reel)
79 = LC duplex, Uniboot, multimode
78 = LC UPC duplex, Uniboot, single-mode

4 Select fibre count.
12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres

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

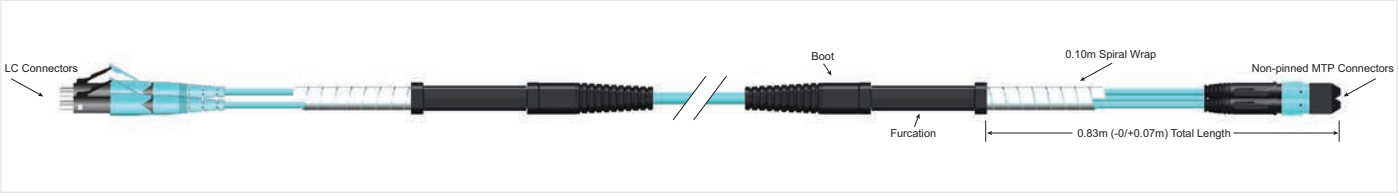
6 Defines cable type.
LZ = Low-smoke, zero-halogen, FRNC

7 Defines trunk furcation leg length for first end to front of panel. (packaged outside of reel)
8 = 840 mm (+70/-0 mm)

8 Select trunk furcation leg length on the single-fibre end (2 mm dual-fibre with LC Uniboot).
(packaged inside of reel)
J = 300 mm (+120/-0 mm), available only upon special request
K = 600 mm (+120/-0 mm)
L = 1000 mm (+120/-0 mm), standard
M = 1200 mm (+120/-0 mm)

9 Select overall length in metres. 002-999
Trunk length is measured from furcation plug to furcation plug (+1/-0 m)

For OM4 heather violet, please add -VI at the end of the part number.



EDGE Solutions Hybrid Trunk Configuration | Drawing ZA-3870

EDGE™ Hybrid MTP® PRO to LC Uniboot Extender Trunks

EDGE™ Hybrid MTP® PRO to LC Uniboot extender trunks provide additional distance for the backbone of the EDGE solution, All trunks are manufactured with Corning® CleanAdvantage™ technology and shipped with strain-relief clips that allow for the tool-less installation in both EDGE solutions and Plug & Play™ systems housings.

EDGE MTP Hybrid Extender Trunk | Photo REN7080

Ordering Information

1	2	3	4	5	6	7	8	9
□	□□	□□	□□	□	L Z	8	□	Z □□□ M

1 Select grip.
G = Grip on first end only (packaged outside of reel)
Z = No grip

2 Select pinned MTP connector for first end.
(packaged outside reel)
93 = MTP multimode low-loss
89 = MTP APC single-mode

3 Select LC connector second end.
(packaged inside reel)
79 = LC duplex, Uniboot, multimode
78 = LC UPC duplex, Uniboot, single-mode

4 Select fibre count.
12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres

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

6 Defines cable type.
LZ = Low-smoke, zero-halogen, FRNC

7 Defines trunk furcation leg length for first end to front of panel.
(packaged outside of reel)
8 = 840 mm (+70/-0 mm)

8 Select trunk furcation leg length on the single-fibre end.
(2 mm dual-fibre with LC Uniboot. (packaged inside of reel)
J = 300 mm (+120/-0 mm), available only upon special request
K = 600 mm (+120/-0 mm)
L = 1000 mm (+120/-0 mm), standard
M = 1200 mm (+120/-0 mm)

9 Select overall length in metres. 002-999
Trunk length is measured from furcation plug to furcation plug (+1/-0 m)

For OM4 heather violet, please add -VI at the end of the part number.

EDGE Solutions Hybrid Extender Trunk Configuration | Drawing ZA-3871

EDGE™ LC Uniboot to LC Uniboot Trunks

EDGE™ LC Uniboot trunks provide traditional backbone cabling for EDGE Solutions and are designed to interface with both EDGE or Plug & Play™ LC duplex adapter panels. All trunks are manufactured with Corning® CleanAdvantage™ technology and shipped with strain-relief clips that allow for the tool-less installation in both EDGE solutions and Plug & Play system housings.

EDGE LC Duplex Uniboot Trunk | Photo LAN7262

Ordering Information

*Z □□ □□ □□ □ L Z 8 □ Z □□□ M

1 2 3 4 5 6 7 8

1 Select LC connector first end.
(packaged outside reel)
79 = LC duplex, Uniboot, multimode
78 = LC UPC duplex, Uniboot, single-mode

2 Select LC connector second end. (packaged inside reel)
79 = LC duplex, Uniboot, multimode
78 = LC UPC duplex, Uniboot, single-mode

3 Select fibre count.
12 = 12 fibres
24 = 24 fibres
36 = 36 fibres
48 = 48 fibres
72 = 72 fibres
96 = 96 fibres
E4 = 144 fibres

4 Select fibre type.
T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
V = 50 µm wide band multimode (OM5)
G = Single-Mode Ultra (OS2)

5 Defines cable type.
LZ = Low-smoke, zero-halogen, FRNC

6 Select trunk furcation leg length on first end. (2 mm dual-fibre with LC Uniboot packaged inside of reel)
J = 300 mm (+120/-0 mm), available only upon special request
K = 600 mm (+120/-0 mm)
L = 1000 mm(+120/-0 mm), standard
M = 1200 (+120/-0 mm)

7 Select trunk furcation leg length on second end (2 mm dual-fibre with LC Uniboot).
(packaged inside of reel)
J = 300 mm (+120/-0 mm), available only upon special request
K = 600 mm (+120/-0 mm)
L = 1000 mm (+120/-0 mm), standard
M = 1200 mm (+120/-0 mm)

8 Select overall length in metres. 002-999
Trunk length is measured from furcation plug to furcation plug (+1/-0 m)

For OM4 heather violet, please add -VI at the end of the part number.

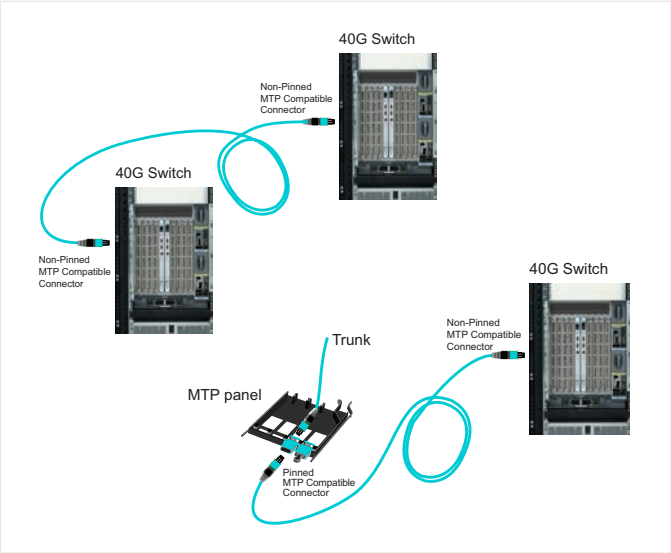
*LC Uniboot trunks with reverse polarity option are shipped without pulling grip.

EDGE™ MTP® PRO Patch Cords

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

These patch cords are manufactured using Corning® CleanAdvantage™ technology and shipped with optimised dust caps, eliminating the need for cleaning and scoping prior to the initial field connection. They are built with MTP PRO push-pull connectors, allowing for a simple one-step colour-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 colour identification while maintaining product integrity.

EDGE MTP Patch Cord | Photo REN7928



EDGE MTP Patch Cord | Drawings ZA-3866 and ZA-3868

Ordering Information

J □□ □□ 12 □ EZ - N □ □□□ M

1 2 3 4 5

1 Select MTP® 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 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 fibre type.
T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
V = 50 µm wide band multimode (OM5)
G = Single-mode Ultra (OM2)

4 Select polarity.
A = TIA-568 Type-A
B = TIA-568 Type-B

5 Select patch cord length.
001-305 metres
(Measured in 1 m increments)

For patch cord polarity, reference AEN151.

Always list lowest numbered connector first.

For OM4 heather violet, please add -VI at the end of the part number.

Optical Performance

	MTP® Connector Insertion Loss	Reflectance
MTP Patch Cord OM3, OM4, OM5	≤ 0.25 dB	≤ -20 dB
MTP Patch Cord OS2	≤ 0.35 dB	≤ -65 dB

Solution Configuration for EDGE™ Housings

Part Number	Height Unit	Number of 40/100G Ports/ Fibres MM/SM, 2x MTP Panel with Patch Cord	Number of 40/100G Ports/ Fibres MM/SM, 4x MTP Panel with Patch Cord	Number of 40/100G Ports/ Fibres MM/SM, 6x MTP Panel with Patch Cord	Number of Panels per Housing
EDGE-01U-SP	1U	24/288	48/576	72/864	12
EDGE-02U	2U	48/576	96/1152	144/1728	24
EDGE-04U	4U	96/1152	192/2304	288/3456	48
EDGE-01U-FP	1U	16/192	32/384	48/576	8
EDGE-02U-FP	2U	32/384	64/768	96/1152	16
EDGE-04U-FP	4U	64/768	128/1536	192/2304	32

EDGE™ Harnesses

One of the critical challenges facing data centre 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 patch cords.

EDGE™ staggered and non-staggered harnesses are ultra-slim 12-fibre pre-terminated cables with an MTP® PRO push-pull 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-fibre 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 colour-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 colour 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-fibre harnesses ensure 100% trunk fibre utilisation at 40 and 100G. These solutions allow for design flexibility with various breakout configurations to meet your connectivity needs. In conjunction with EDGE TAP modules, EDGE TAP harnesses, offer a network monitoring solution that integrates directly into the EDGE structured cabling footprint, with increased rack space utilisation and density.

EDGE MTP to LC Uniboot Harness, non-staggered | Photo REN7795

EDGE 2x3 Conversion Harness | Photo REN7929

Features and Benefits

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

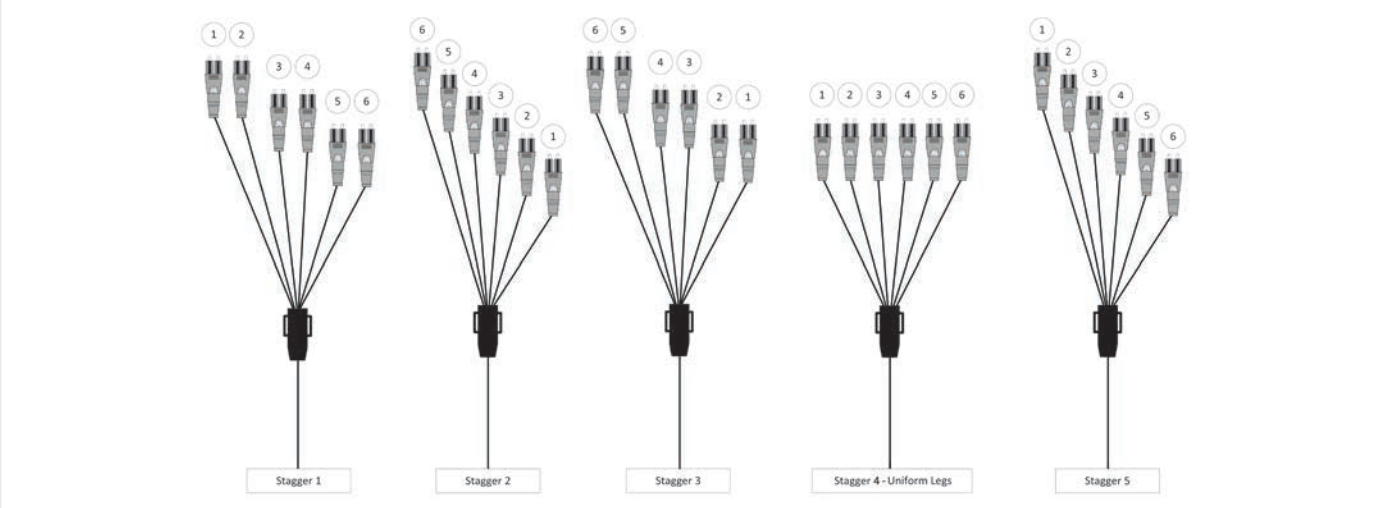
MTP PRO connector with push-pull boot
Allows for pinning and polarity change in the field while enabling easier mating and unmating in extremely dense applications

Low-loss connectivity
Enables system design flexibility.

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

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

Conversion harnesses transition connectivity from 12 to 8 fibres
Ensure 100% utilisation of trunks at 40 and 100G.



EDGE Staggered Harness Offerings

EDGE™ MTP® PRO to LC Uniboot Staggered Harnesses

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

EDGE MTP to LC Uniboot Staggered Harnesses | Photo REN7933

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 Push-Pull 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 Push-Pull connector** to connect into a trunk. This solution can be used in an equipment distribution area (EDA).

Ordering Information

H □□ □□ 12 □ LZ - □ □ □□□ M

1 2 3 4 5 6 7

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

4 Defines cable type.
LZ = LSZH™, harness

5 Select leg stagger type.
(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

For harness stagger type, reference AEN157.

Type 4 uniform leg length is 150 mm. For longer lengths, please select from the following:
J = 300 mm (+70/-0 mm)
K = 600 mm (+70/-0 mm)
L = 900 mm (+70/-0 mm)
M = 1200 mm (+70/-0 mm)
N = 1500 mm (+70/-0 mm)
P = 1800 mm (+70/-0 mm)
R = 2500 mm (+70/-0 mm)

Furcation legs are colour-coded by fibre type.

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

7 Select harness length.
001 - 006 metres – up to 6 m for staggered harnesses

001 - 060 metres – up to 60 m for uniform harnesses

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

For OM4 heather violet, please add -VI at the end of the part number.

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.**

EDGE™ MTP® PRO to LC Uniboot Non-staggered Harnesses

EDGE™ MTP® PRO to LC Uniboot non-staggered harnesses provide breakout from 12-fibre MTP PRO connectors to LC Uniboot connectors. These harnesses come with non-staggered 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 Push-Pull** 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 Push-Pull connector** to connect into a trunk. This solution can be used in an equipment distribution area (EDA).

EDGE MTP to LC Uniboot Non-staggered Harnesses | Photo REN7795

Ordering Information

H □□ □□ 12 □ L Z - □ □ □□□ M

1 2 3 4 5 6 7

1 Select MTP 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 fibre 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.
LZ = LSZH™, harness

5 Select leg length.
J = 300 mm (+70/-0 mm)
K = 600 mm (+70/-0 mm)
L = 900 mm (+70/-0 mm)
M = 1200 mm (+70/-0 mm)
N = 1500 mm (+70/-0 mm)
P = 1800 mm (+70/-0 mm)
R = 2500 mm (+70/-0 mm)

Furcation legs are colour coded by fibre type.

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

7 Select harness length.
001 - 060 metres – up to 60 m for uniform harnesses

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

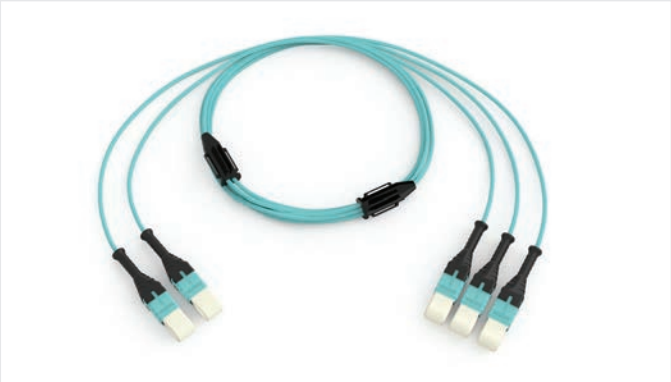
For OM4 heather violet, please add -VI at the end of the part number.

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.**

EDGE™ Conversion Harnesses

EDGE™ conversion harnesses are pre-terminated harnesses that provide conversion from 12- to 8-fibre connectivity for full-fibre utilisation. These harnesses are offered as a 2x3 MTP® harness (two 12-fibre MTP PRO Push-Pull connectors on one end, three 8-fibre MTP PRO Push-Pull 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 optimised 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 Q L Z - □□ A □□□ M

1 2 3

1 Select the 12-fibre MTP connector leg length in mm. (leg OD is 2.5 mm)
K = 600 mm (+70/-0 mm)
L = 1000 mm (+70/-0 mm)

2 Select the 8-fibre MTP connector leg length in mm. (leg OD is 2.5 mm)
K = 600 mm (+70/-0 mm)
L = 1000 mm (+70/-0 mm)

3 Select the harness length in metres. (does not include leg length)
001 - 060 metres – up to 60 m

Harness length is measured from plug to plug and therefore does not include leg lengths.

Refer to AEN151 for application information.

For OM4 heather violet, please add -VI at the end of the part number.

Solution Configuration for EDGE Housings

Part Number	Height Unit	Number of 40/100G Ports/Fibres with 2x MTP Panel	Number of 40/100G Ports/Fibres with 4x MTP Panel	Number of 40/100G Ports/Fibres with 6x MTP Panel	Number of Panels per Housing
EDGE-01U-SP	1U	36/288	72/576	108/864	12
EDGE-02U	2U	72/576	144/1152	216/1728	24
EDGE-04U	4U	144/1152	288/2304	432/3456	48
EDGE-01U-FP	1U	24/192	48/384	72/576	8
EDGE-02U-FP	2U	48/384	96/768	144/1152	16
EDGE-04U-FP	4U	96/768	192/1536	288/2304	32

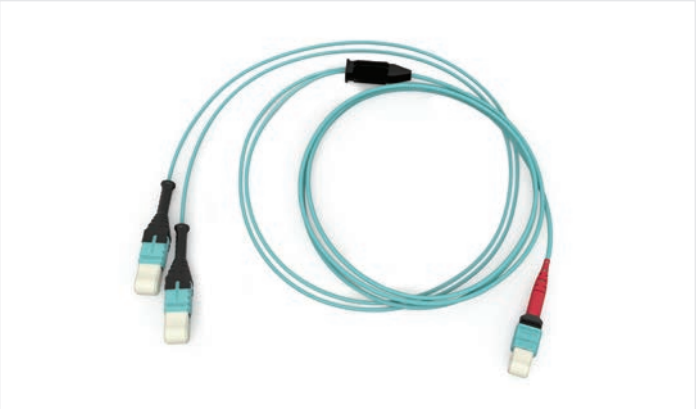
Optical Performance

MTP to LC Trunk Harness and Module Harness		
	Harness Insertion Loss, Max.	Reflectance
Harness OM3/4/5	≤ 0.35 dB	-20 dB
Harness OS2	≤ 0.6 dB	-65 dB
MTP to MTP Conversion Harness		
Harness OM4	≤ 0.50 dB	-20 dB
MTP to LC TAP Harness		
Harness OS2	≤ 0.6 dB	-65 dB
Harness OM4	≤ 0.75 dB	-20 dB

EDGE™ 24-Fibre “Y” Harness

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

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



EDGE 24-Fibre “Y” Harness | Photo REN7941

Ordering Information

H □□ □□ 24 □ LZ - □ □ □□□ M

1 2 3 4 5 6 7

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

2 Select breakout 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 fibre type.
Q = 50 µm multimode (OM4)
G = Single-mode Ultra (OS2)

4 Defines cable type.
LZ = LSZH, harness

5 Select leg length.
K = 600 mm
L = 900 mm

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 polarity information.*

7 Select harness length.
001-060 m
(Harness length is measured from plug to MTP, does not include leg length.)

Type-6 and Type-7 polarity are only available with non-pinned 12-fibre MTP PRO for connector 2.

Type-Z, Type-8, and Type-9 polarity are only available with pinned 12-fibre MTP PRO for connector 2.

Type-6 and Type-8 polarity are only available for multimode.

EDGE™ TAP Harnesses

The EDGE™ TAP harness is used to breakout the 12-fibre 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 patch cords, as the cable end of the harness is much smaller than the size of equivalent patch cords. This reduced cabling bulk improves airflow for increased cooling and facilitates easier moves, adds, and changes (MACs).

The MTP PRO connector with Push-Pull boot allows for pinning and polarity changes in the field while enabling easier mating and unmating in extremely dense applications.

EDGE TAP Harness | Photo REN7939

Ordering Information

H ☐☐ ☐☐ 12 ☐ EZ - ☐ B ☐☐☐ M

1 2 3 4 5

1 Select MTP 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 fibre type.
Q = 50 µm multimode (OM4)
G = Single-mode (OS2)

4 Select leg length in mm (leg OD is 2.0 mm).
J = 300 mm
K = 600 mm
L = 1000 mm
M = 1200 mm
N = 1500 mm
P = 1800 mm
Q = 1950 mm
R = 2450 mm

5 Select harness length (includes the breakout connector leg lengths).
002 - 060 metres - up to 60 m

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

Refer to AEN164 for application information.

For OM4 heather violet, please add VI at the end of the part number.

EDGE™ Modules

EDGE™ modules provide the interface between the MTP® connector on the trunk and the LC duplex or MDC (mini duplex connector) patch cords 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.

Modules with LC and MTP connectivity are manufactured with Corning® CleanAdvantage™ technology.

EDGE conversion modules ensure 100% trunk fibre utilisation at 40/100/400G. These solutions allow for design flexibility with various breakout configurations to meet your connectivity needs.

Features and Benefits

Shuttered LC adapters
Create one-hand operation while eliminating the need to remove and store dust caps.

VFL-compatible shutters
Decrease time needed to test and troubleshoot a link.

Rear-loading capability
Reduces the time to prepare and install modules into fibre housings.

Up to 3x density
Enables 144 fibres LC Duplex and even 432 fibres in 1U housing with the 36-fibre MDC module.

Low-insertion-loss performance
Improved performance specs allow for more mated pairs and/or longer link distance.

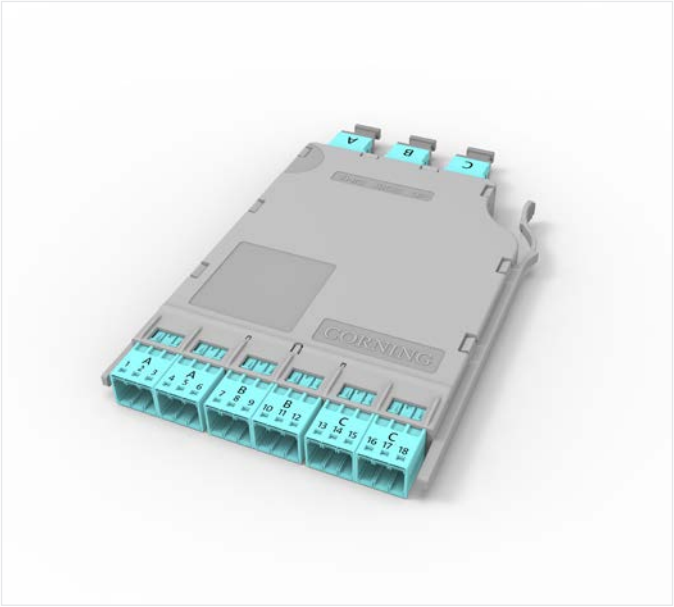
Universal wiring
Decreases complexity and risks associated with managing polarity during moves, adds, and changes.

Corning CleanAdvantage technology and optimised dust caps on MTP and LC connectivity
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 fibres
Ensures 100% utilisation 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 MTP to MDC Module | Photo REN8837

EDGE Conversion Module | Photo REN7071

EDGE™ Ultra-Low-Loss and Low-Loss MTP to LC Modules

EDGE™ ultra-low-loss modules allow for extended-reach capabilities in high-speed serial duplex transmission.

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 low-loss modules provide an interface between the MTP® connector on an MTP trunk and the LC duplex patch cords that connect directly to the electronics.

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 Ultra-Low-Loss

ECM - □□ 12 - □□ - □□□ - ULL

1 2 3 4 5

Ordering Information Low-Loss

ECM - □□ 12 - □□ - □□□

1 2 3 4 5

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

2 Defines fibre count.
12 = 12 fibres

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

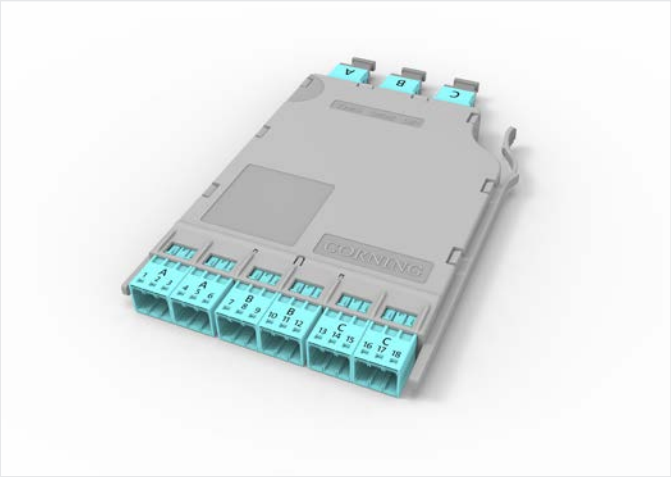
5 Select fibre type.
T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
V = 50 µm multimode (OM5)
G = Single-mode Ultra (OS2)

For OM4 heather violet, please add -VI at the end of the part number.

EDGE™ MTP® to MDC Modules

The mini duplex connector (MDC) enables system scalability and helps achieve data rates of 200G, 400G, and 800G with space-saving, high-performance duplex connectivity. The 36-fibre module allows to increase density from 144 up to 432 fibres in a 1U housing.

Low-insertion-loss performance on multimode and single-mode modules enable more mated pairs and/or longer link distances across the data centre while the universally wired components decrease complexity and risks associated with managing system polarity during MACs (moves, adds, and changes).



EDGE MTP to MDC Module 36F MM | Photo REN8837

EDGE MTP to MDC Module 24F SM | Photo REN8868

Ordering Information

E C M - UM □□ - □□ - □□□

1 2 3 4

1 Select fibre count.
24 = 24 fibres
36 = 36 fibres

2 Select adapters on module front.
JM = MDC multimode
JU = MDC single-mode

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

4 Select fibre type.
Q = 50 µm multimode (OM4)
G = Single-mode Ultra (OS2)

EDGE™ Conversion Modules

EDGE™ conversion modules have 12-fibre MTP® adapters in the rear for mating to backbone trunks and breakout to 8-fibre MTP adapters in the front for connectivity to electronics. These conversion modules fully utilise all fibres 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-fibre MTP adapters in the rear and three 8-fibre 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 optimised dust caps on the module's rear side and offer the industry's best rack density for parallel optics with up to 72 MTP® ports per 1U enabling higher revenue generation per rack unit.

EDGE 2x3 Conversion Module | Photo REN7106

EDGE 4x6 Conversion Module | Photo REN7071

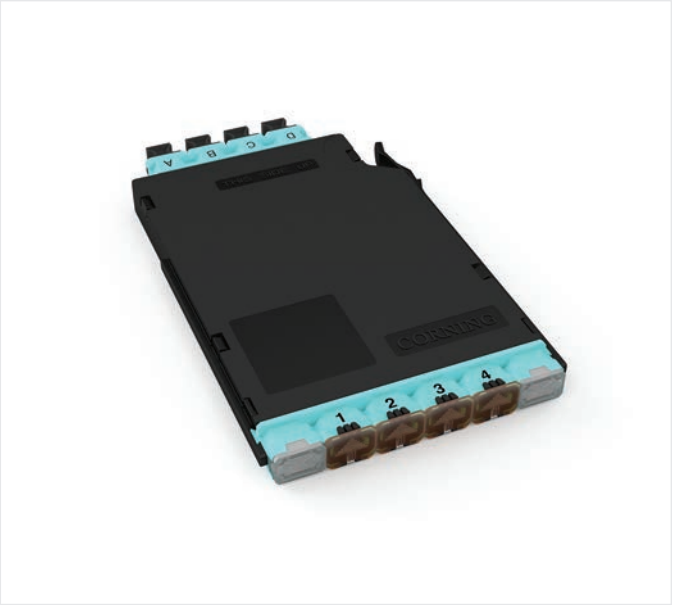
Ordering Information

Part Number	Adapter Type Front	Adapter Colour Front	Adapter Type Back	Fibre 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)

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-fibre MTPs in the rear for mating to backbone trunks and break out to four 8-fibre 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

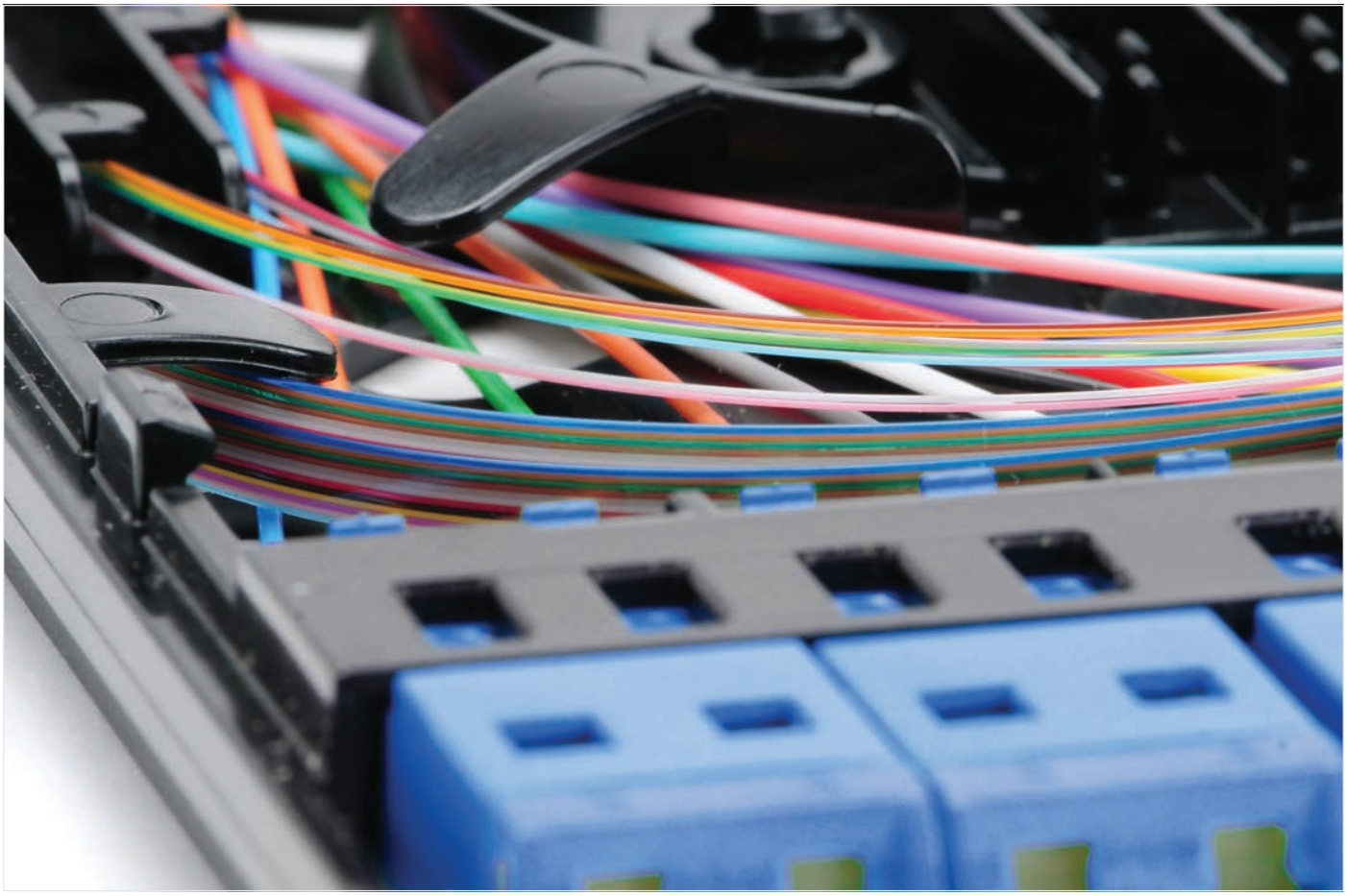
Part Number	Adapter Type Front	Adapter Colour Front	Adapter Type Back	Fibre Category
EMM-MM32-9393Q	Shuttered MTP (pinned)	Aqua	MTP (Pinned)	50 µm Multimode (OM4)
EMM-MM32-9375Q	Shuttered MTP (pinned)	Aqua	MTP (Non-pinned)	50 µm Multimode (OM4)
EMM-SM32-8989G	Shuttered MTP (pinned)	Black	MTP (Pinned)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

EDGE™ SE Splice Cassettes

The EDGE™ SE Solution is an innovative field-termination addition to the award-winning EDGE solution for high-density data centre cabling infrastructure systems. The integral termination cassette allows for a wide range of fibre termination options without sacrificing any of the density, cable management, or ease of handling of the broader EDGE solutions family.

The EDGE SE solution can accommodate fusion splicing or direct termination. The cassette features LC duplex adapters with integrated dust caps that provide protection for the internal connectors and a translucent finish for ease of fibre identification. The cable entry in the rear of the cassette allows for multiple cable options from loose tube cable designs to tight-buffered cables. Combining the adapters, strain-relief, and splice organisers together in the cassette allows for superior fibre handling and safety of terminated fibres giving greater flexibility and confidence in Day 2 moves, adds, and changes (MACs).

With the ability to add fibres in building blocks of 12, the modular nature of EDGE solutions with EDGE SE cassettes is ideal for “pay-as-you-grow” applications. Solutions featuring EDGE SE cassettes make system changes where fibres are continuously added through a product or data centre’s lifetime, such as colocation meet-me rooms or customer access point, more convenient.



EDGE Splice Cassette, 12 Fibres, LC Duplex, OS2 | Photo LAN4219

EDGE™ Multi-Splice Cassettes

The pre-loaded multi-splice cassettes accommodate fusion splicing and come with 12 coloured LC pigtails (Telcordia colour code), heat-shrink or crimp splice organisers and accept loose tube or tight-buffered cables for termination of multiple fibre optic cable types.

Low-loss connectivity enables system design flexibility, and the integrated LC duplex adapters across the front provide dust protection with VFL-safe translucent, inward-folding shutters.

The cassettes can install quickly from the front or rear of the housing, all steps can be performed from one side of a cabinet row (cable attach, buffer tube routing, module insertion) and enable a pay-as-you-grow approach.

Splice Cassette, 12 F, LC Duplex, OM4 | Photo LAN4849

Optical Performance

	Module Insertion Loss, Max	Operating Temperature
SE cassette	≤ 0.5 dB	-20°C to 60°C

Ordering Information

Part Number	Polarity	Adapter Type Front	Adapter Colour Front	Fibre category	Splice Protection
EDGE-CS12-AD-P00QE	Telcordia	Shuttered LC	Aqua	50 µm MM (OM4)	Heat-shrink
EDGE-CS12-AE-P00RE	Telcordia	Shuttered LC	Blue UPC	SM (OS2)	Heat-shrink
EDGE-CS12-AF-P00RE	Telcordia	Shuttered LC	Green APC	SM (OS2)	Heat-shrink
EDGE-CS12-AD-P00QE-CSP	Telcordia	Shuttered LC	Aqua	50 µm MM (OM4)	Crimp
EDGE-CS12-AE-P00RE-CSP	Telcordia	Shuttered LC	Blue UPC	SM (OS2)	Crimp
EDGE-CS12-AF-P00RE-CSP	Telcordia	Shuttered LC	Green APC	SM (OS2)	Crimp

For OM4 heather violet, please use AV connector code.

Part Number	Product Description	Units Per Delivery	
CAB-TT-TOOL	Zipper Tool (cutting transition tubes and feeding in the fibre)	1/1	
CAB-TT-050M	Set with 50 m of transition tubes	1/1	
CAB-TC	Tube Connectors (24 x 1-1, 2-1, 3-1)	1/1	

EDGE™ Trunk Splice Cassettes

The pre-loaded multi-splice cassettes accommodate fusion splicing and come with 12 coloured LC pigtails (Telcordia colour code), heat-shrink or crimp splice organisers and accept loose tube or tight-buffered cables for termination with EDGE™ trunk cables.

Low-loss connectivity enables system design flexibility, and the integrated LC duplex adapters across the front provide dust protection with VFL-safe translucent, inward-folding shutters.

The cassettes can install quickly from the front or rear of the housing, all steps can be performed from one side of a cabinet row (cable attach, buffer tube routing, module insertion) and enable a pay-as-you-grow approach.

Splice Cassette, 12 F, LC Duplex, OS2 APC | Photo LAN4852

Optical Performance

	Module Insertion Loss, Max	Operating Temperature
SE cassette	≤ 0.5 dB	-20°C to 60°C

Ordering Information

Part Number	Polarity	Adapter Type Front	Adapter Colour Front	Fibre category	Splice Protection
EDGE-CS12-AD-P00QU	Universal	Shuttered LC Duplex	Aqua	50 µm MM (OM4)	Heat-shrink
EDGE-CS12-AE-P00RU	Universal	Shuttered LC Duplex	Blue UPC	SM (OS2)	Heat-shrink
EDGE-CS12-AF-P00RU	Universal	Shuttered LC Duplex	Green APC	SM (OS2)	Heat-shrink
EDGE-CS12-AD-P00QM-CSP	Universal	Shuttered LC Duplex	Aqua	50 µm MM (OM4)	Crimp
EDGE-CS12-AE-P00RM-CSP	Universal	Shuttered LC Duplex	Blue UPC	SM (OS2)	Crimp
EDGE-CS12-AF-P00RM-CSP	Universal	Shuttered LC Duplex	Green APC	SM (OS2)	Crimp

For OM4 heather violet, please use AV connector code.

EDGE™ SE Field-Term Cassettes (empty)

Simplified for and increased confidence in handling the empty cassettes allow to terminate fibres through the integration of cable strain-relief, accommodating UniCam® or anaerobic connectors for direct connector termination. Low-loss connectivity enables system design flexibility, and the integrated LC duplex adapters across the front provide dust protection with VFL-safe translucent, inward-folding shutters.

The cassettes can install quickly from the front or rear of the housing, all steps can be performed from one side of a cabinet row (cable attach, buffer tube routing, module insertion) and enable a pay-as-you-grow approach.

Cassette, LC Duplex, OM4
| Photo LAN4850

Cassette, LC Duplex, OS2
| Photo LAN4851

Cassette, LC Duplex, OS2 APC
| Photo LAN4853

Ordering Information

Part Number	Adapter Type Front	Adapter Colour Front	Fibre Category
EDGE-CS12-AD	Shuttered LC	Aqua	50 µm MM (OM4)
EDGE-CS12-AE	Shuttered LC	Blue UPC	SM (OS2)
EDGE-CS12-AF	Shuttered LC	Green APC	SM (OS2)

Solution Configuration for EDGE Housings

Part Number	Height Unit	Number of 1/10G Ports, MM/SM	Number of 40GBASE-LR4 Ports, only SM	Number of 100GBASE-LR4 Ports, only SM	Number of Modules	Fibre Capacity
EDGE-01U-SP	1U	72	72	72	12	144
EDGE-02U	2U	144	144	144	24	288
EDGE-04U	4U	288	288	288	48	576
EDGE-01U-FP	1U	48	48	48	8	96
EDGE-02U-FP	2U	96	96	96	16	192
EDGE-04U-FP	4U	192	192	192	32	384

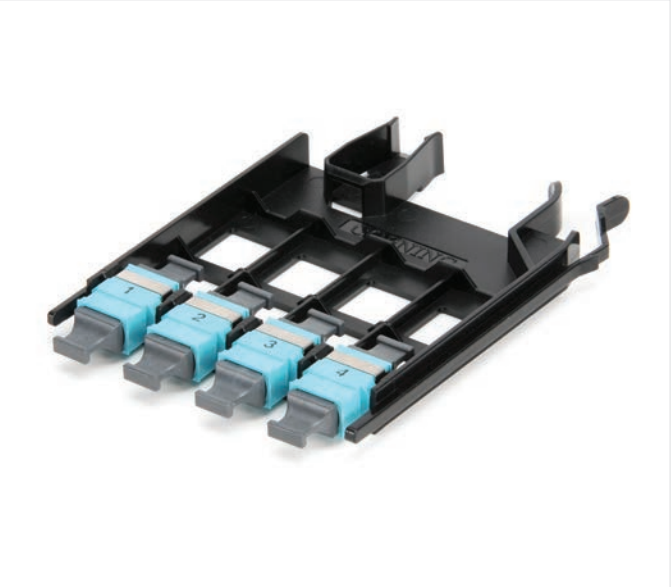
For OM4 heather violet, please use AV connector code.

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 patch cords.

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

EDGE 72-Fibre MTP Panel | Photo LAN4147



MTP Adapter Panel with Four MTP Adapters | Photo LAN2695

Ordering Information

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

EDGE™ TAP Modules

EDGE™ TAP modules, part of EDGE solutions for data centres and storage area networks (SAN), enable passive optical tapping of the network while reducing downtime and link loss, and increasing rack space utilisation 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 utilisation of rack space.

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 patch cord 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	Fibre 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	Fibre 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 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-7C-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-7C-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-7C-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-7C-G-R	EDGE TAP Module, MTP-MTP, 70/30 split ratio, rear tap	6	1

Specs							
Part Number	Fibre 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-7C-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-7C-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-7C-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-7C-G-R	OS2	70/30	2.0/5.8	N/A	0.75	3.5	7.3

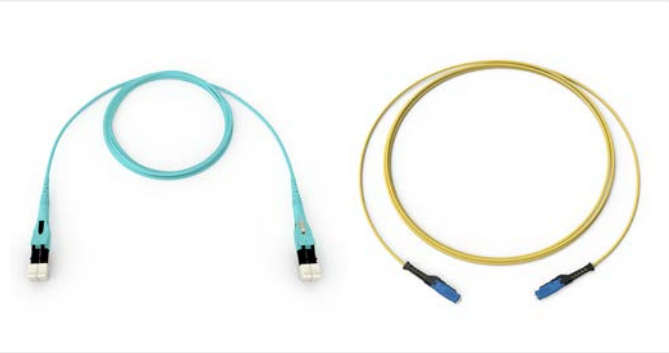
Uniboot and Duplex Patch Cords

As the industry's leading supplier of fibre, our state-of-the-art manufacturing process for cable assemblies ensures unsurpassed fibre and connector performance that meets and exceeds industry standards for connector reflectance and insertion loss. Low-loss connectivity enables system design flexibility for your application.

Reverse polarity LC Uniboot connectors allow for a quick-and-easy conversion of polarity and connector colour coding in the field without exposing the fibres or needing any tools. Manufactured with Corning® CleanAdvantage™ technology and shipped with optimised caps, they eliminate the need for cleaning and scoping prior to initial field connection.

Mini Duplex Connectors (MDC) offer reverse polarity by simply twisting the trigger, and a flexible push-pull boot allows easy finger access to plug/unplug connectors without the support of a connector clip or tool.

To integrate next generation high-density transceivers with an SN (Senko Nano) footprint or legacy SC connectors into existing LC duplex based infrastructures, our EDGE™ patch cords include hybrid versions as well.



Reverse Polarity LC Uniboot and MDC Duplex Patch Cords
| Photos REN6462 and REN8003

Features

Slim, round two-fibre interconnect cable.

Uniboot-style duplex connectors.

Improved handling in high-density applications.

MDC patch cords and modules enable up to 3x the density in EDGE™ footprint.

Low-loss connectivity enables system design flexibility. Enabled by bend-insensitive Corning® ClearCurve® multimode or Corning® SMF-28e® Ultra single-mode fibres.

Designed to withstand tight bends and challenging cable routes.

Connector Specifications

Connector Type	Maximum Insertion Loss	Maximum Reflectance
Multimode UPC	≤ 0.15 dB	≤ -40 dB
Single-mode UPC	≤ 0.25 dB	≤ -45 dB
Single-mode APC	≤ 0.25 dB	≤ -60 dB

Uniboot and Duplex Patch Cords

Ordering Information

E □□ □□ 02 □ □□□□ □□□ M

1 2 3 4 5 6 7

1 Select connector one type.
79 = LC Uniboot multimode
MM = MDC multimode
NM = SN multimode
57 = SC Duplex multimode
78 = LC Uniboot UPC single-mode
80 = LC Uniboot APC single-mode
MU = MDC UPC single-mode
MA = MDC APC single-mode
NU = SN UPC single-mode
NA = SN APC single-mode
72 = SC UPC Duplex single-mode
66 = SC APC Duplex single-mode

2 Select connector two type.
See selection under 1.

3 Determines fibre count.
02 = 2 fibres

4 Select fibre type.
T = Corning® ClearCurve® ClearCurve Multimode OM3
Q = ClearCurve Multimode OM4
V = ClearCurve Multimode OM5 Wide Band Fibre
G = Corning® SMF-028® Ultra (OS2)

5 Select cable code based on desired construction.
NZ20 = 2.0 mm LSZH™, CRP Dca
NZ16 = 1.6 mm LSZH, CRP Dca*

6 Select cable assembly, length.
001-199

7 Defines unit of measure.
M = Metres

Additional configurations, lengths and jacket options are available upon request and can be viewed in our ***EDGE™ 2-Fibre Patch Cords Family Specification.***

*For MDC and SN connectors, 1.6 mm is the default and recommended cable diameter.

Reverse Polarity LC Uniboot Triggers

All reverse polarity LC duplex Uniboot connectors come with a removable trigger. We offer 12 different colour triggers to allow for segmentation of networks and link identification while providing easy polarity management.

EDGE™ Reverse Polarity Uniboot LC Duplex Triggers | Photo LAN2254

Ordering Information

TRIGGER-BP-U-□

1

1 Select colour.

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

Must order in multiples of 100.

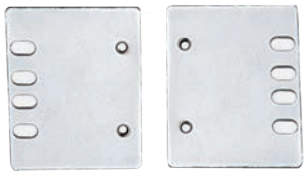
Port/Fibre Configurations for EDGE™ Housings

Part Number	Height Unit	Number of 1/10G Ethernet Ports/Fibres MM, 6x LC Duplex Panel	Number of 1/10/40/100G Ethernet Ports/Fibres SM, 6x LC Duplex Panel	Number of 4/8/10/16/32G FC Ports/Fibres SM, 6x LC Duplex Panel	Number of Panels per Housing
EDGE-01U-SP	1U	72/144	72/144	72/144	12
EDGE-02U	2U	144/288	144/288	144/288	24
EDGE-04U	4U	288/576	288/576	288/576	48
EDGE-01U-FP	1U	48/96	48/96	48/96	8
EDGE-02U-FP	2U	96/192	96/192	96/192	16
EDGE-04U-FP	4U	192/384	192/384	192/384	32

EDGE™ Solutions

Cleaning Accessories			
Part Number	Product Description	Units per Delivery	
CLEANER-PORT-LC	Single-Fibre Port Cleaner for LC, keyed LC, and MU connector end faces for both UPC and APC polishes	1/1	
2104466-01	Fibre 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	

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	
PC1-BKT-23	EDGE Extension and Flush-Mount Bracket for mounting 1U housings into 23-in racks or cabinets	1/1	
PC2-BKT-23	EDGE Extension and Flush-Mount Bracket for mounting 2U housings into 23-in racks or cabinets	1/1	
PC4-BKT-23	EDGE™ Solutions Mounting Bracket for mounting 4U housings into 23-in racks or cabinets	1/1	
EDGE-01U-FLSH-BKT	EDGE Extension and Flush-Mount Bracket for EDGE-01U	1/1	
CJP-01U-P	Pretium™ Patch Cord Management Panel 1U; provides patch cord management in a 1.75-in rack space	1/1	
CJP-02U-P	Pretium Patch Cord Management Panel 2U; provides patch cord management in a 3.5-in rack space	1/1	

Housing Accessories (continued)			
Part Number	Product Description	Units per Delivery	
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	

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	

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

RoHS COMPLIANT

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