CORNING

EDGE8® Solutions

Awards

Hosted by Future Thinking Magazine with an expert panel of members across the data centre industry, the German Data Centre Awards recognises products and projects that enhance data centres' efficiency with a special focus on innovative and visionary solutions. This expert panel selects the winners.

The DCS awards honour the product designers, manufacturers, suppliers and providers excelling in the data centre space and recognise the vendors and their business partners' achievements. The winners are selected by public vote from the installation, distribution, consultant and end-user communities from around the world.

EDGE8® Solutions Introduction

Corning® ClearCurve® bend-optimised multimode and single-mode optical fibres are the core element 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 centre, while the pre-terminated components reduce installation times and enable faster moves, adds, and changes (MACs).

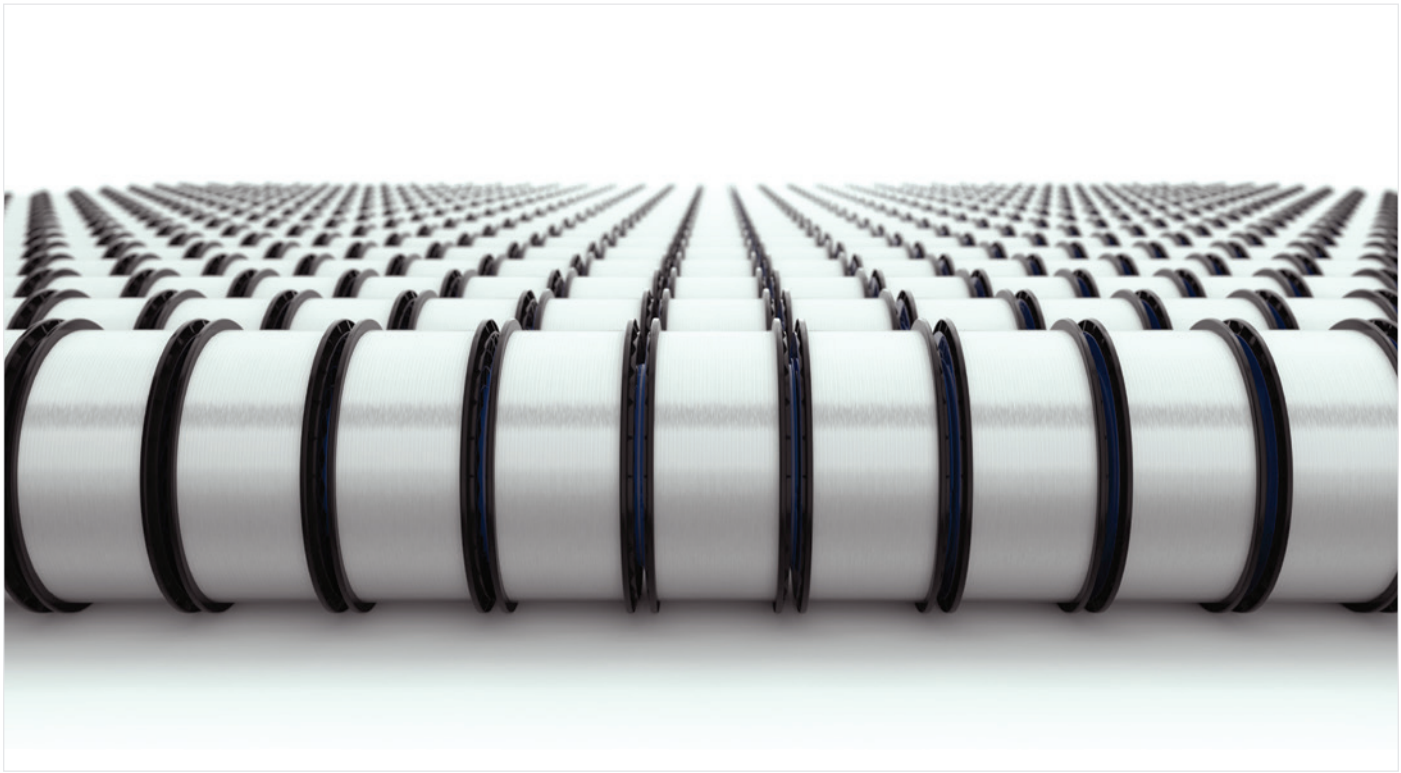
Our EDGE™ solutions were the industry's first pre-terminated optical cabling systems specifically designed for the data centre environment. The value that EDGE provides to the industry continues to be proven. Density, network uptime, speed, simplicity, and a clear migration path to meet future requirements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

EDGE8 solutions strengthen your data centre in three key areas:

- increased asset utilisation with reduced patch cord complexity and the elimination of stranded cabling assets
- technology adoption due to 100% fibre utilisation — 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

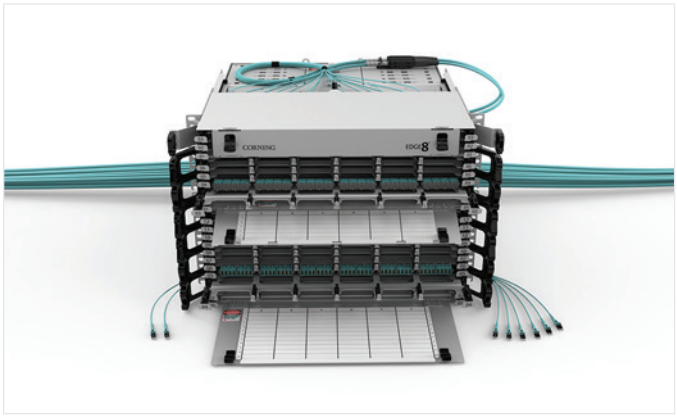
All EDGE8 solutions products, except TAP modules, mesh modules, secure solutions and pre-terminated 24-fibre MTP® single-mode assemblies ("Y" harness, breakout harness, and 24-fibre patch cords), are manufactured with Corning® CleanAdvantage™ technology and shipped with an optimised dust cap design, eliminating the need for scoping and cleaning before the initial field connection.



Contents

EDGE8® Solutions Overview

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



EDGE8 Solutions

Features and Benefits

8-fibre MTP® connectors
Base-8 configuration allows for seamless migration to data rates of 400G and above.

Removeable covers on the 1U and 2U housings
Provides easier access to modules and panels.

EDGE™ reverse polarity uniboot patch cords
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 & 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
Reduces congestion in high-connectivity environment.

Corning® ClearCurve® fibre 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 optimised 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	Insertion Loss, Maximum 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	Insertion Loss, Maximum OS2
Component Value	≤ 0.35 dB	≤ 0.60 dB

Optical Distribution Frames

The 19-inch Corning Optical Distribution Frames (ODF) are optimised 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 patch cord management plates and segmented hubs. A single 4-meter patch cord length allows patching from any port to any other port on the dual- or single-frame configuration. Gravity-managed slack storage ensures patch cords 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.

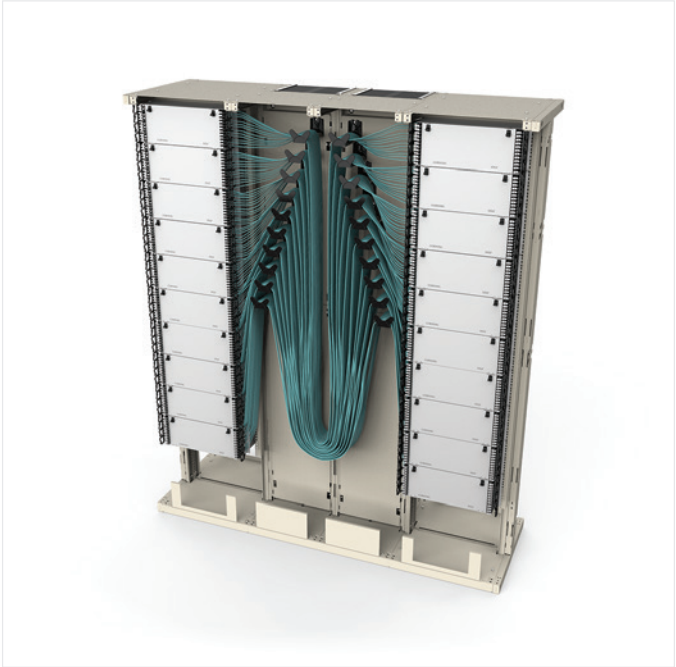
Features and Benefits

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

One patch cord for all cross-connect applications
A single 4-meter 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.

Additional bottom-channel kit available
Route fibres at the bottom of cabinet frame, no need for dedicated overhead trays.



Corning Optical Distribution Frame | Photo REN7527

Corning Optical Distribution Frames

Part Number	Product Description	Product Image
PF2TDJFG5LCANNNN2PAWE	Optical Distribution Single-Frame, 2200 mm (H) x 900 mm (W) x 600 mm (D), left patch cord management, rear cable entry, no doors, pre-assembled	
PF2TDJFG5LCANNNN2PFWE	Optical Distribution Single-Frame, 2200 mm (H) x 900 mm (W) x 600 mm (D), left patch cord management, rear cable entry, no doors, flat packed	
PF2TDJFG5RCANNNN2PAWE	Optical Distribution Single-Frame, 2200 mm (H) x 900 mm (W) x 600 mm (D), right patch cord management, rear cable entry, no doors, pre-assembled	
PF2TDJFG5RCANNNN2PFWE	Optical Distribution Single-Frame, 2200 mm (H) x 900 mm (W) x 600 mm (D), right patch cord management, rear cable entry, no doors, flat packed	
PF2QDJCG7ZDANNNN2PAWE	Optical Distribution Dual-Frame, 2200 mm (H) x 1800 mm (W) x 600 mm (D), patch cord management in the middle, rear cable entry, no doors, pre-assembled	

For additional configuration, please visit our online catalogue or contact Customer Care at 00800 2676 4641 or cc.emea@corning.com.

EDGE8® Solutions 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 patch cords.

EDGE8 HD housings' unique design 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 patch cord 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 patch cord 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-fibre-count trunks for faster moves, adds, and changes (MACs).

Labelling the housing couldn't be easier with a full-size mounting area inside the front door to display 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 | Photo REN474

EDGE8® Solutions HD Housings

EDGE8-01U-SP | Photo REN445

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 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

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-SP
72x LC duplex ports (144 fibre)
72x MTP ports (576 fibre)

- 2U EDGE8 Housing EDGE8-02U
144x LC duplex ports (288 fibre)
144x MTP ports (1152 fibre)

- 4U EDGE8 Housing EDGE8-04U
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
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

When rear strain-relief plate is removed from part number EDGE8-01U-SP, product depth reduces to 14.9 in/37.8 cm.

EDGE8® Solutions 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 cords.

EDGE8 FX housings include a fixed, compact design providing module or panel deployment from the housing's front or rear. The integrated cable routing elements of the housing make real structured patch cord 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 cord 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 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-fibre-count trunks for faster moves, adds, and changes (MACs).

Labelling the housing couldn't be simpler – there is a full-size mounting area inside 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 FX Housings | Photo REN1188

EDGE8® Solutions 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 patch cords 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.

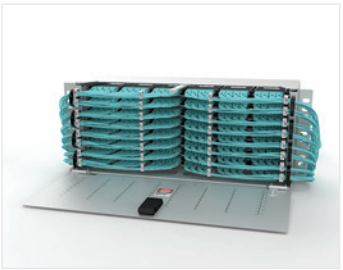
Ordering Information					
Part Number	Height	Dimensions (W x D x H)	Packaging Dimensions (W x D x H)	Shipping Weight	Number of Panels per Housing
EDGE8-01U-EMOD	1U	432 mm x 107 mm x 44.5 mm (17 in x 4.2 in x 1.75 in)	534 mm x 201 mm x 138 mm (21 in x 7.9 in x 5.4 in)	1.14 kg (2.5 lb)	12
EDGE8-01U-EMOD-SP	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

EDGE8-01U-EMOD | Photo REN1454

EDGE8-01U-EMOD-SP | Photo LAN9913

EDGE8-01U-FP | Photo REN1140

EDGE8-02U-FP | Photo REN1616



EDGE8-04U-FP Front | Photo REN1176

EDGE8-SMH | Photo REN1973

EDGE8-FZB-04U | Photo REN1545

EDGE8® Trunks

EDGE8® trunks are pre-terminated cables with ultra-low-loss 8-fibre MTP® connectors. Available in MTP-to-MTP or MTP-to-LC configurations, these trunks provide the backbone of the passive network infrastructure and enable rapid deployment for your campus LAN or data 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 EDGE8 solutions and Plug & Play™ systems housings.

EDGE8-02U Rear Side | Photo REN581

Features and Benefits

Snap-in strain-relief clips

Provides easier cable management.

Pinned MTP PRO connector & push-pull boot on both ends as standard configuration

Allows for pinning and polarity change in the field while enabling easier mating and unmating in extremely dense applications and a single pinless patch cord 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 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 cap

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

EDGE8 MTP to MTP Trunk | Photo REN7954

EDGE8 MTP to LC Hybrid Trunk | Photo REN7797

Trunk Specifications

Mechanical Characteristics								
Fibre Count	Nominal Outer Diameter	Weight	Minimum Bend Radius – Installation	Minimum Bend Radius – Operation	Crush Resistance (Reversible)	Maximum Tensile Strength	Fire Load	Pulling Grip – Outer Diameter
8	4.5	20 kg/km	90	45	1000N/10 cm	450N	0.4 MJ/m	38 mm
16	7.2	41 kg/km	144	72	1000N/10 cm	450N	0.72 MJ/m	52 mm
24	7.2	41 kg/km	144	72	1000N/10 cm	450N	0.83 MJ/m	52 mm
32	8.3	56 kg/km	166	83	1000N/10 cm	450N	1.12 MJ/m	52 mm
48	8.3	60 kg/km	166	83	1000N/10 cm	660N	1.34 MJ/m	52 mm
72	11.3	83 kg/km	226	113	1000N/10 cm	660N	1.59 MJ/m	52 mm
96	11.3	90 kg/km	226	113	1000N/10 cm	660N	1.98 MJ/m	52 mm
144	13.5	146 kg/km	270	135	1000N/10 cm	660N	1.98 MJ/m	52 mm
192	15.2	186 kg/km	304	152	1000N/10 cm	660N	1.98 MJ/m	38 mm
288	17.6	235 kg/km	352	176	1000N/10 cm	660N	1.98 MJ/m	38 mm

Note: Plug size information: Fibre count 12-24 = Size 1 (h = 15 mm); Fibre count 36-144 = Size 2 (h = 20 mm).

Optical Performance Multimode				
Trunk	Reflectance Connector A	Reflectance Connector B	Maximum Insertion Loss Connector A	Maximum 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

Optical Performance Single-Mode				
Trunk	Reflectance Connector A	Reflectance Connector B	Maximum Insertion Loss Connector A	Maximum Insertion Loss Connector B
MTP-MTP	≤ -65 dB	≤ -65 dB	≤ 0.35 dB	≤ 0.35 dB
MTP-LC Duplex Uniboot	≤ -65 dB	≤ -35 dB	≤ 0.35 dB	≤ 0.25 dB

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

Trunk Shipping Information

Reel Capacities							
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	No Pulling Grip Option — Z (m)						
8	2-30	30-500	500.5-900	-	-	900.5-999	-
16	2-30	30-200	200.5-350	350.5-600	600.5-670	670.5-999	-
24	2-30	30-200	200.5-350	350.5-600	600.5-670	670.5-999	-
32	2-30	30-150	150.5-265	265.5-450	450.5-500	500.5-999	-
48	2-30	30-150	150.5-265	265.5-450	450.5-500	500.5-999	-
72	2-30	-	-	-	-	60.5-399.5	510.5-999
96	2-30	-	-	-	-	60.5-299.5	480.5-999
Fibre Count	One Side Pulling Grip Option — G (m)						
8	2-30	30-200	200.5-400	400.5-700	700.5-900	900.5-999	-
16	2-30	30-90	90.5-160	160.5-280	280.5-420	420.5-999	-
24	2-30	30-90	90.5-160	160.5-280	280.5-420	420.5-999	-
32	2-30	-	30-120	120.5-200	200.5-300	300.5-999	-
48	2-30	-	30-120	120.5-200	200.5-300	300.5-999	-
72	2-30	-	-	-	-	-	400-999
96	2-30	-	-	-	-	-	300-999
Fibre Count	Both Sides Pulling Grip Option — D (m)						
8	2-30	-	30-400	400.5-700	700.5-900	900.5-999	-
16	2-30	-	30-160	160.5-280	280.5-420	420.5-999	-
24	2-30	-	30-160	160.5-280	280.5-420	420.5-999	-
32	2-30	-	30-120	120.5-200	200.5-300	300.5-999	-
48	2-30	-	30-120	120.5-200	200.5-300	300.5-999	-
72	2-30	-	-	-	-	60.5-399.5	400-999
96	2-30	-	-	-	-	60.5-399.5	300-999

Trunk Shipping Information

Reel Capacities							
Packaging Method		Reel P1	Reel P2	Reel D	Wood Reel	Wood Reel	Reel NBN/HFC
Reel Flange (mm)		780	780	1150	600	1,042	1,150
Reel Core (mm)		180	360	350	410	807	726
Reel Width (mm)		650	650	800	1200	724	1,200
Fibre Count	Fibre Count Code	No Pulling Grip Option — Z (m)					
72	-	30-130	130.5-270	270.5-510	-	-	-
96	-	30-110	110.5-270	270.5-480	-	-	-
144	E4	2-55	55.5-160	160.5 -280	280.5-999	-	-
192	K2	2-45	45.5-125	125.5-220	220.5-300	300.5-600	600.5-999
288	U8	2-25	25.5-100	100.5-175	-	175.5-600	600.5-999
Fibre Count	Fibre Count Code	One Side Pulling Grip Option — G (m)					
72	-	-	30-60	-	-	-	-
96	-	-	30-60	-	-	-	-
144	E4	2-25	25.5-55	55.5-280	280.5-999	-	-
192	K2	2-20	20.5-50	50.5-220	220.5-300	300.5-600	600.5-999
288	U8	2-10	10.5-35	35.5-170	-	170.5-600	600.5-999
Fibre Count	Fibre Count Code	Both Sides Pulling Grip Option — D (m)					
72	-	-	30-60	-	-	-	-
96	-	-	30-60	-	-	-	-
144	E4	2-25	25.5 -55	55.5-280	280.5-999	-	-
192	K2	2-20	20.5-50	50.5-220	220.5-300	300.5-600	600.5-999
288	U8	2-10	10.5-35	35.5-170	-	170.5-600	600.5-999

EDGE8® MTP® Trunks

EDGE8® MTP® trunks provide the backbone of the EDGE8 solution. With 8-fibre pinned MTP PRO connectors on both ends as a standard configuration, 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 400N of pulling tension while providing complete protection for the connectors.

EDGE8 8-Fibre MTP Trunks | Photos REN7793 and REN7794

Ordering Information

□	□□	□□	□□	□	LZ	□	□	□	□□□	M
1	2	3	4	5	6	7	8	9	10	11

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

2 Select MTP connector.
(end one on outside of reel)
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
00 = Pigtail*

3 Select MTP connector.
(end two on inside of reel)
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
00 = Pigtail *(only available with P = Type-A polarity)*

4 Select standard fibre count.
08 = 8 fibre
16 = 16 fibre
24 = 24 fibre
32 = 32 fibre
48 = 48 fibre
72 = 72 fibre
96 = 96 fibre
E4 = 144 fibre
K2 = 192 fibre
U8 = 288 fibre

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 = LSZH™, non-armoured

7 Select leg length.
(end two on inside of reel)
D = 840 mm (+70/-0 mm)
0 = Pigtail

Furcation legs are colour-coded by fibre type.

8 Defines leg length.
(end two on inside of reel)
D = 840 mm (+70/-0 mm)
0 = Pigtail

Furcation legs are colour-coded by fibre type.

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

10 Select cable length.
002-300 metres

(1 m increments measured from furcation to furcation plug)

Longer cable lengths available upon request.

11 Defines unit of measure.
M = Metres

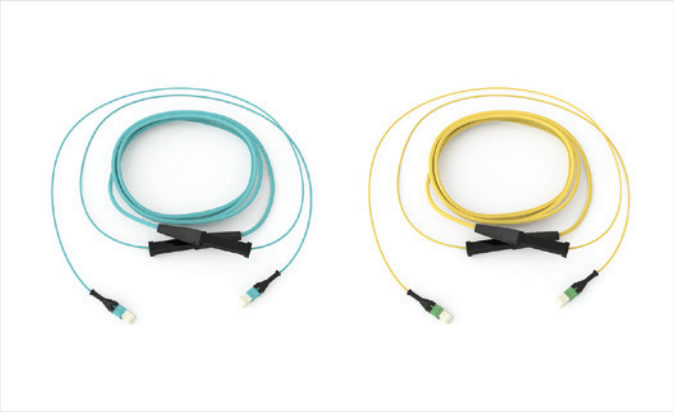
**Available with no-pulling grip option and Type-A polarity only.*

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

EDGE8® MTP® Extender Trunks

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-Fibre MTP Extender Trunks | Photos REN7954 and REN7953

Ordering Information

□	□□	□□	□□	□	LZ	D	C	X	□□□	M
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 connector.
(end one on outside of reel)
E5 = MTP 8 F (pinned) multimode
E7 = MTP 8 F (pinned) single-mode

3 Select MTP 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 fibre count.
08 = 8 fibre
16 = 16 fibre
24 = 24 fibre
32 = 32 fibre
48 = 48 fibre
72 = 72 fibre
96 = 96 fibre
E4 = 144 fibre
K2 = 192 fibre
U8 = 288 fibre

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 = LSZH™, non-armoured

7 Define leg length.
(end two on inside of reel)
D = 840 mm (+70/-0 mm)
Mates with module/harness.

8 Defines leg length.
(end two on inside of reel)
C = 1500 mm (+70/-0 mm)
Mates with trunk (long leg reaches from rear to the front side of housing)

9 Defines trunk type.
X = Extender

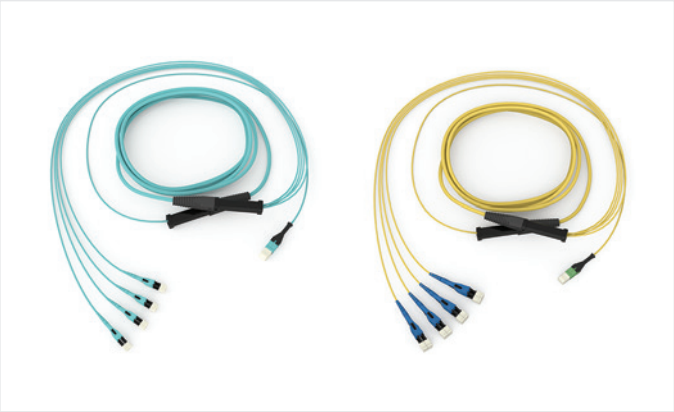
10 Select cable length.
002-300 metres
(1 m increments measured from furcation to furcation plug)
Longer cable lengths available upon request.

11 Defines unit of measure.
M = Metres

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

EDGE8® Hybrid MTP® to LC Uniboot Trunks

EDGE8® MTP® to LC Uniboot hybrid trunks combine pinned MTP PRO connectors with push-pull boot, which connect to EDGE8 modules, and LC Uniboot connectors, which connect directly to the electronics. These trunks enable additional options for cabling of data centres. 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 Trunks | Photos REN7958 and REN7957

Ordering Information

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

1 Select grip.
G = Grip on one end
Z = No grip

2 Select MTP 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 fibre count.

08 = 8 fibre	48 = 48 fibre
16 = 16 fibre	72 = 72 fibre
24 = 24 fibre	96 = 96 fibre
32 = 32 fibre	E4 = 144 fibre

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 = LSZH™, non-armoured

7 Defines leg length.
(end one on outside of reel)
D = 840 mm (+70/-0 mm)

8 Select leg length.
(end two on inside of reel)
J = 300 mm (+120/-0 mm)
K = 600 mm (+120/-0 mm)
L = 1000 mm (+120/-0 mm)
M = 1200 mm (+120/-0 mm)
N = 1500 mm (+120/-0 mm)
Q = 2000 mm (+120/-0 mm)
R = 2500 mm (+120/-0 mm)

9 Defines trunk type.
W = Universal hybrid trunk

10 Select cable length.
002-300 metres
(1 m increments measured from furcation to furcation plug)
Longer cable lengths available upon request.

11 Defines unit of measure.
M = Metres

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

EDGE8® Hybrid MTP® to LC Uniboot Extender Trunks

EDGE8® MTP® to LC Uniboot hybrid extender trunks combine non-pinned MTP connectors, which connect to MTP Trunks, and LC Uniboot connectors, which connect directly to the electronics. These trunks enable additional options for cabling of data centres 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 Trunks | Photo REN7797 and REN7964

Ordering Information

□	□□	□□	□□	□	LZ	C	□	Z	□□□	M
1	2	3	4	5	6	7	8	9	10	11

1 Select grip.
G = Grip on one end
Z = No grip

2 Select MTP 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 fibre count.

08 = 8 fibre	48 = 48 fibre
16 = 16 fibre	72 = 72 fibre
24 = 24 fibre	96 = 96 fibre
32 = 32 fibre	E4 = 144 fibre

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 = LSZH™, non-armoured

7 Defines leg length.
(end one on outside of reel)
C = 1500 mm (+70/-0 mm)

8 Select leg length.
(end two on inside of reel)
J = 300 mm (+120/-0 mm)
K = 600 mm (+120/-0 mm)
L = 1000 mm (+120/-0 mm)
M = 1200 mm (+120/-0 mm)
N = 1500 mm (+120/-0 mm)
Q = 2000 mm (+120/-0 mm)
R = 2500 mm (+120/-0 mm)

9 Defines trunk type.
Z = Universal hybrid extender

10 Select cable length.
002-300 metres
(1 m increments measured from furcation to furcation plug)
Longer cable lengths available upon request.

11 Defines unit of measure.
M = Metres

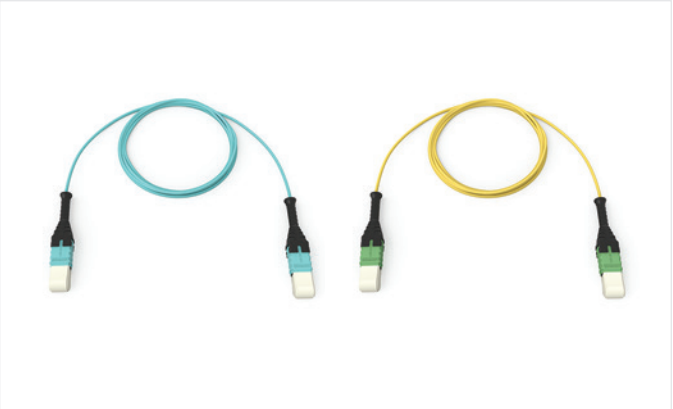
For OM4 heather violet, please add -VI at the end of the part number.

EDGE8® MTP® PRO Patch Cords

The EDGE8® 8-fibre MTP® patch cord allows for seamless migration to higher data rates in the data centre when used in conjunction with EDGE8 pinned trunks. This EDGE8 MTP assembly has the same connector size and cable footprint as duplex LC patch cords 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 with push-pull boots. 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 and allowing for an easy mating/unmating in extremely dense applications.

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



EDGE8 MTP Patch Cords | Photos REN7928 and REN7927

Ordering Information

J □□ □□ 08 □ EZ - N □ □□□ M

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 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 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.
EZ = LSZH™, interconnect

5 Defines patch cord.
N = Patch cord, no furcation

6 Select polarity.
A = Type-A
B = Type-B
For patch cord polarity, reference AEN156.

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

8 Defines unit of measure.
M = Metres

Non-pinned patch cords should be used to mate to pinned EDGE8 trunks.

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

Optical Performance		
Fibre Type	**MTP Connector Insertion Loss**	**Reflectance**
OM3/OM4/OM5	0.25 dB	≤ -20 dB
OS2	0.35 dB	≤ -65 dB

EDGE8® Harnesses

One of the critical challenges facing data centre 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 patch cords. All EDGE8® harnesses are manufactured with Corning® CleanAdvantage™ technology and an optimised dust cap, eliminating the need for scoping and cleaning prior to initial field connection.

An EDGE8 harness is an ultra-slim 8-fibre (2.0 mm) pre-terminated cable with an MTP® PRO connector on one end and four LC duplex Uniboot connectors on the other. The majority of the harness is a single cable which breaks out into four, 2-fibre 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 with push-pull boot 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 and allowing for an easy mating/unmating in extremely dense applications.

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-fibre interconnect cable
Improves airflow and reduces congestion.

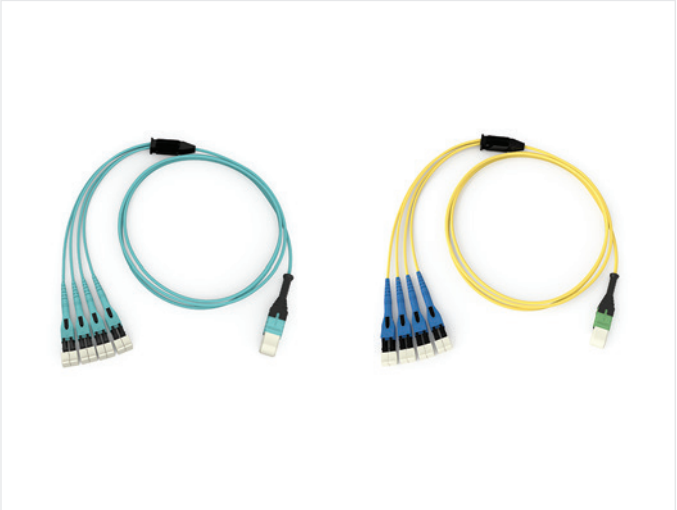
MTP PRO connector & push-pull boot
Allows for pinning and polarity change in the field while enabling easier mating and unmating in extremely dense applications.

Low-loss connectivity
Enables system design flexibility.

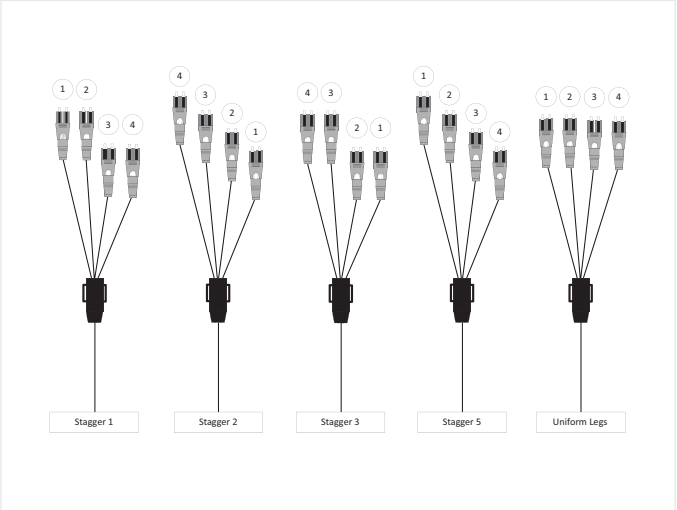
Bend-improved fibre
Allows tighter cable bends for slack storage and routing, less risk of downtime due to pinched or bent cables.

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

EDGE8 Staggered Harness | Photos REN7930 and REN7959



EDGE8 Nonstaggered Harness | Photos REN7931 and REN7956



EDGE8 Staggered Harness Examples | Photo ZA4253

Optical Performance					
Harness	Fibre Type	Reflectance Connector A	Reflectance Connector B	Maximum Insertion Loss Connector A	Maximum Insertion Loss Connector B
MTP PRO-LC Duplex Uniboot	SM	≤ -65 dB	≤ -35 dB	≤ 0.35 dB	≤ 0.25 dB
	MM	≤ -20 dB	≤ -20 dB	≤ 0.25 dB	≤ 0.10 dB

EDGE8® MTP® PRO to LC Uniboot Staggered Harnesses

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

EDGE8 Staggered Harness | Photo REN7930

Ordering Information

H □□ □□ 08 □ LZ - □ □ □□□ M

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 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 length in mm.
(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

Uniform leg length is 150 mm. For longer lengths, please select from the following:
(leg OD is 2.0 mm)
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.

For harness stagger type, reference AEN157.

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

For harness polarity, reference AEN156.

7 Select cable length.
001 - 006 metres–
up to 6 m for staggered harnesses
001 - 060 metres–
up to 60 m for uniform harnesses

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

8 Defines unit of measure.
M = Metres

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.***

EDGE8® MTP® PRO to LC Uniboot Nonstaggered Harnesses

EDGE8® MTP® to LC Uniboot nonstaggered harnesses provide breakout from 8-fibre MTP PRO connectors to LC Uniboot connectors. These harnesses come with nonstaggered legs in several length options.

EDGE8 Nonstaggered Harness | Photo REN7931

Ordering Information

H □□ □□ 08 □ LZ - □ □ □□□ M

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 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 length in mm.
(leg OD is 2.0 mm).
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

For harness polarity, reference AEN156.

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

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

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

8 Defines unit of measure.
M = Metres

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.***

EDGE8® Modules

EDGE8® modules provide the interface between the MTP® connector on the trunk and the LC duplex patch cords 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 fibre housings.

High density
Modules enable 576 fibres in a 4U housing and 144 fibres 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 optimised dust cap
Eliminates the need for scoping and cleaning prior to initial field connection.

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

EDGE8® MTP® to LC Duplex Module

EDGE8® modules provide an interface between 8-fibre MTP® connectors and LC duplex connectors. The internal wiring of the module is based on universal polarity to ensure the correct fibre 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-fibre 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 fibre identification. All EDGE8 modules are manufactured with Corning® CleanAdvantage™ technology and an optimised MTP 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 | Photos REN6575 and REN7093

Ordering Information

ECM8- □□ 08 - □□ - □□□ - ULL

1 2 3 4 5

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

2 Defines fibre count.
08 = 8 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.
E6 = MTP 8 F (non-pinned) multimode
E8 = MTP 8 F (non-pinned) single-mode

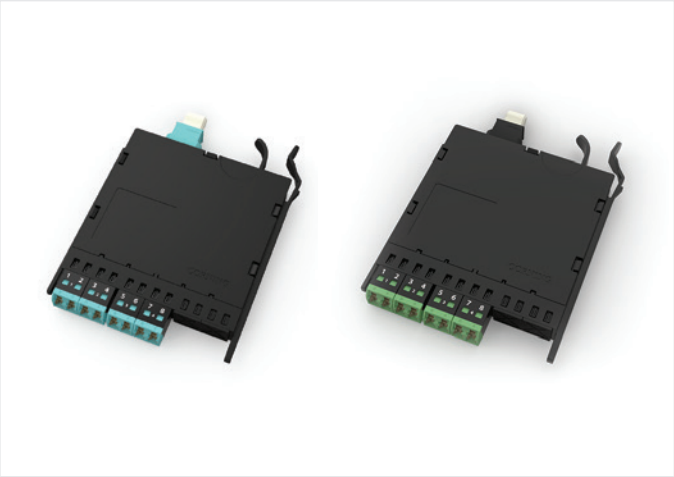
5 Select fibre type.
Q = 50 µm multimode (OM4)
V = 50 µm wide band multimode (OM5)
G = Single-Mode Ultra (OS2)

Other options are available upon request. For OM4 heather violet, please add -VI at the end of the part number.

EDGE™ Base-8 MTP® to LC Duplex Modules

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

These modules breakout 8-fibre 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 fibre identification. All EDGE8® modules are manufactured with Corning® CleanAdvantage™ technology and an optimised MTP dust cap, eliminating the need for cleaning before initial field connection.



EDGE Base-8 MTP to LC Duplex Module | Photos REN6520 and REN7073

Ordering Information

ECM12-☐☐ 08 - ☐☐ - ☐☐☐ - ULL

1 2 3 4 5

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

2 Defines fibre count.
08 = 8 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.
E6 = MTP 8 F (non-pinned) multimode
E8 = MTP 8 F (non-pinned) single-mode

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

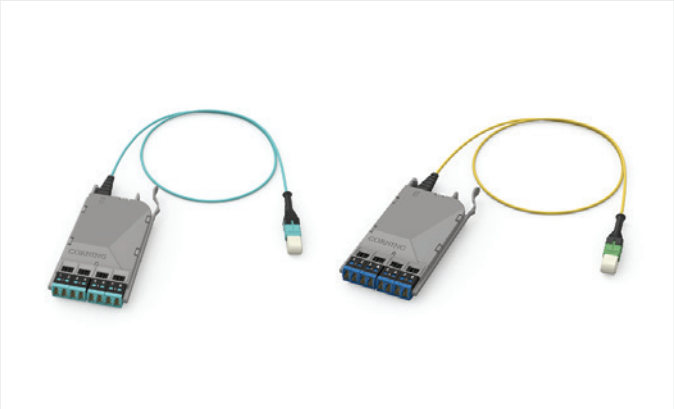
**Compatible with wide band (OM5) solutions.*

Other pinning configurations available upon request.

EDGE8® Port Breakout Modules

The EDGE8® port breakout module 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-fibre QSFP 40G transceiver into 4x 2-fibre 10G LC duplex connections.

These modules breakout 8-fibre 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 fibre identification. All EDGE8 modules are manufactured with Corning® CleanAdvantage™ technology and an optimised MTP dust cap, eliminating the need for cleaning before initial field connection.



EDGE8 Port Breakout Module | Photos REN7932 and REN7966

Ordering Information

ECM8-□□ □□-□ EZ □-□□□M

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 adapter on the back of the 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

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

4 Defines cable type.
EZ = LSZH™, interconnect

5 Select polarity.
A = Type-A
B = Type-B

6 Select cable length.
001-025 metres
(1 m increments measured from furcation plug to furcation plug.)

7 Defines unit of measure.
M = Metres

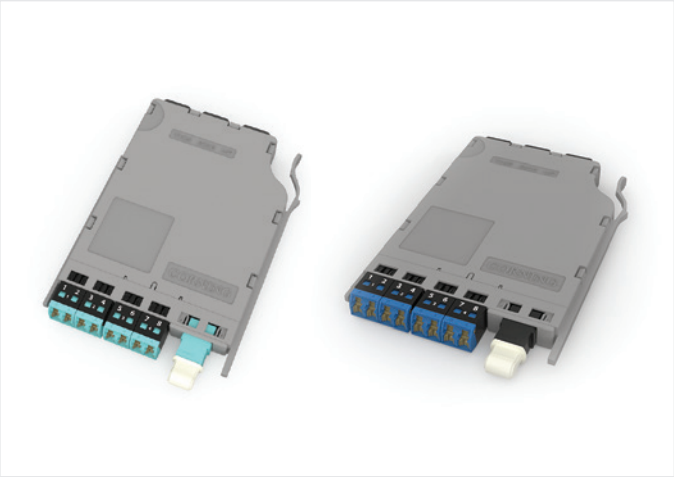
Other options are available upon request. For OM4 heather violet, please add -VI at the end of the part number.

EDGE8® Front-Access Breakout Modules

The EDGE8® front-access breakout module will typically connect to the active electronics via a patch cord or harness, and breakout the 8-fibre QSFP 40G transceiver into 4x 2-fibre 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-fibre 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 fibre identification with VFL.

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



EDGE8 Front-Access Breakout Module | Photos REN6578 and REN7087

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

**Compatible with wide band (OM5) solutions.*

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

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 40G multimode networks, connecting MTP trunks to 40G patch cords. 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 patch cords (and in 40G multimode networks), etc. The MTP adapter panel is the easiest way to implement parallel optic applications in your data centre 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, eliminating the need for any tools. EDGE8 MTP adapter panels are available with one, two, and four 8-fibre 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. Visual fault locator (VFL) compatible shutters enable easy port identification while defusing the WFL light to ensure adequate eye safety.

EDGE8 MTP Adapter Panel | Photo REN485

Features

- Provide MTP connection points between trunks, harnesses, and patch cords
- 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	Fibre Count	Fibre 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)

For OM4 violet options, please contact Corning Customer Care at 00800 2676 4641 or cc.emea@corning.com.

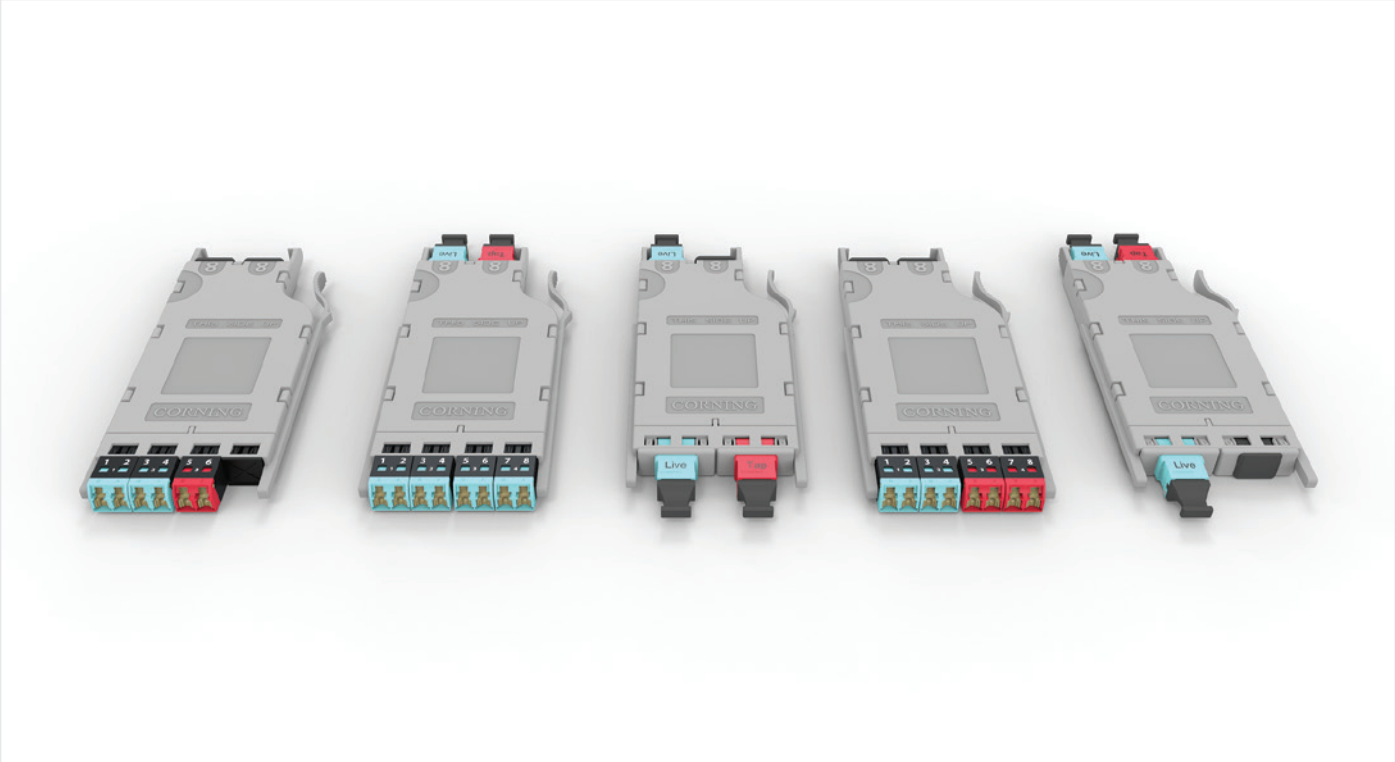
EDGE8® TAP Modules

EDGE8® TAP modules enable passive optical tapping of the network while reducing downtime and link loss, increase rack space utilisation 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 (1U), they fit seamlessly into EDGE8 solutions hardware for maximum cable management and better utilisation 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 patch cord 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. EDGE8 BiDi TAP modules have two LC duplex adapters 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

Specifications							
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)
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

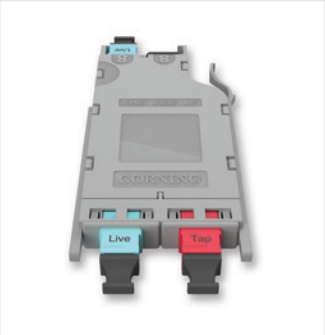
Specifications							
Part Number	Fibre Type	Split Ratio	Splitter Loss (dB) Live/TAP	LC Connector Loss (dB)	MTP Connector Loss (dB)	TAP Module’s Live Link Loss (dB)	TAP Module’s TAP Link Loss (dB)
ETM8-50B-Q	OM4	50/50	3.7/3.7	0.10	0.25	4.15	4.3
ETM8-70B-Q-PREM	OM4	70/30	1.8/5.8	0.10	0.25	2.2	6.3
ETM8-80B-Q-PREM	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 patch cords 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 module and a pinless “live” (aqua for multimode, black for single-mode) MTP adapter on the rear of the 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 centre 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

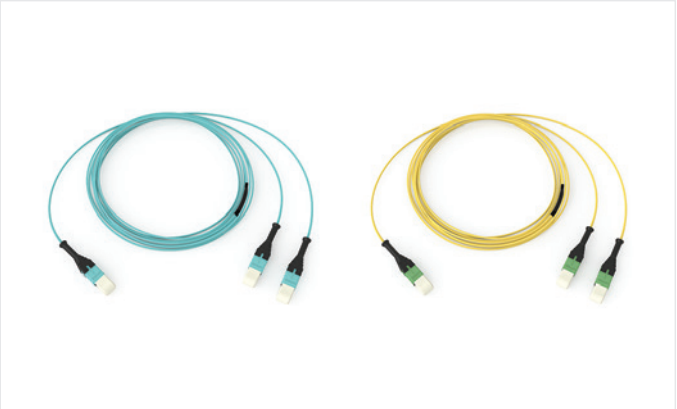
Single-Mode			
Part Number	Description	# of Duplex Ports Monitored	# of MTP Ports Monitored
ETM8-50C-G	EDGE8 TAP Module MTP-MTP, 50/50 split ratio	4	1
ETM8-50C-G-R	EDGE8 TAP Module MTP-MTP, 50/50 split ratio, rear TAP	4	1
ETM8-70C-G	EDGE8 TAP Module MTP-MTP, 70/30 split ratio	4	1
ETM8-70C-G-R	EDGE8 TAP 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

Specifications						
Part Number	Fibre Type	Split Ratio	Splitter Loss (dB) Live/Tap	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	0.25	4.3	4.3
ETM8-50C-Q-R	OM4	50/50	3.7/3.7	0.25	4.3	4.3
ETM8-70C-Q-PREM	OM4	70/30	1.8/5.8	0.25	2.4	6.4
ETM8-70C-Q-R-PREM	OM4	70/30	1.8/5.8	0.25	2.4	6.4
ETM8-80C-Q-PREM	OM4	80/20	1.3/7.3	0.25	1.9	7.9
ETM8-80C-Q-R-PREM	OM4	80/20	1.3/7.3	0.25	1.9	7.9
ETM8-50C-G	OS2	50/50	3.5/3.5	0.35	4.2	4.2
ETM8-50C-G-R	OS2	50/50	3.5/3.5	0.35	4.2	4.2
ETM8-70C-G	OS2	70/30	2.0/5.8	0.35	2.7	6.5
ETM8-70C-G-R	OS2	70/30	2.0/5.8	0.35	2.7	6.5
ETM8-80C-G	OS2	80/20	1.3/7.8	0.35	2.0	8.5
ETM8-80C-G-R	OS2	80/20	1.3/7.8	0.35	2.0	8.5
ETM8-90C-G	OS2	90/10	0.7/11.8	0.35	1.4	12.5
ETM8-90C-G-R	OS2	90/10	0.7/11.8	0.35	1.4	12.5

EDGE8® MTP® PRO to MTP PRO TAP Harness

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



EDGE8 MTP to MTP TAP Harness | Photos REN7926 and REN7965

Ordering Information

H □□ □□ 08 □ LZ - □ B □□□ M

1 2 3 4 5 6 7 8

1 Select MTP connector on first end. (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 connector on second end. (to electronics - each MTP connector has 4 fibres)
E6 = MTP 8 F (non-pinned) multimode
E8 = MTP 8 F (non-pinned) single-mode

3 Select fibre type.
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 length in mm.
(leg OD is 2.0 mm).
J = 300 mm (+70/-0 mm)
K = 600 mm (+70/-0 mm)

6 Defines harness polarity.
B = Type-B

7 Select cable length.
001-006 metres
(1 m increments measured from plug to MTP, does not include stagger.)

8 Defines unit of measure.
M = Metres

EDGE8® MTP® PRO to LC TAP Harness

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

MTP PRO with push-pull boot allows for pinning and polarity changes in the field while enabling easier mating/unmating in extreme dense applications.

EDGE8 MTP to LC TAP Harness | Photo REN7938

Ordering Information

H □□ □□ 08 □ LZ - □ B □□□ M

1 2 3 4 5 6 7 8

1 Select MTP 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 fibre type.
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 length in mm.
(leg OD is 2.0 mm).
J = 300 mm (+70/-0 mm)
K = 600 mm (+70/-0 mm)

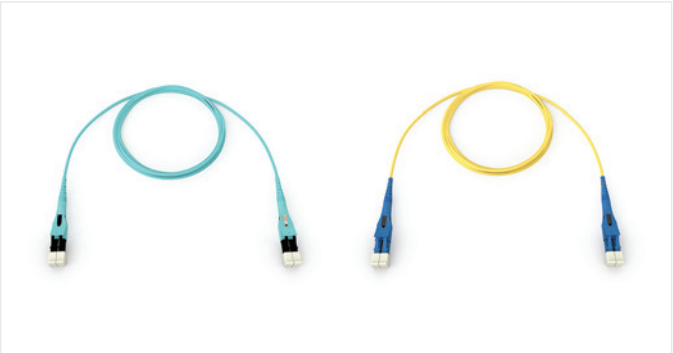
6 Defines harness polarity.
B = Type-B

7 Select cable length.
001-006 metres
(1 m increments measured from plug to MTP, does not include stagger.)

8 Defines unit of measure.
M = Metres

Reverse Polarity Duplex Patch Cords

Reverse polarity LC Uniboot patch cords allow for the quick-and-easy conversion from a TIA-568 A-B polarity to a TIA-568 A-A polarity without exposing the fibres or needing any tools. The patch cords come with a straight-through polarity from the factory, but can be easily converted into a flipped cable with no tools. The uniboot design allows one cable to carry 2 fibres, reducing the cable bulk when routing. LC Uniboot patch cords are manufactured with Corning® CleanAdvantage™ technology and shipped with optimised caps, eliminating the need for cleaning and scoping prior to initial field connection.



Reverse Polarity Uniboot Duplex Patch Cords | Photos REN6462 and REN6461

Features

- Slim, round 2-fibre 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 fibres
- Designed to withstand tight bends and challenging cable routes

LC Uniboot Patch Cord Specifications			
Connector	**Connector Code**	**Typical Connector Attenuation**	**Return Loss**
MM LC Uniboot	79	0.10 dB	≤ 20 dB
SM LC UPC Uniboot	78	0.25 dB	≤ 58 dB
SM LC APC Uniboot	80	0.25 dB	≤ 65 dB

Ordering Information

E □□ □□ 02 □ NZ 20 □□□ M

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 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.
NZ = LSZH™, 2.0 mm cable

5 Select cable length in metres. (tip-to-tip)
Standard lengths are 001, 002, 003, 004, 005, 006, 007, and 010

6 Defines unit of measure.
M = Metres

Addtional lengths and plenum-rated jackets are available upon request.
For OM4 heather violet, please add -VI at the end of the part number.

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 network segmentation and link identification while providing easy polarity management.

EDGE™ Reverse Polarity Uniboot LC Duplex Triggers | Photo LAN2254

Ordering Information

TRIGGER-BP-U-□
1

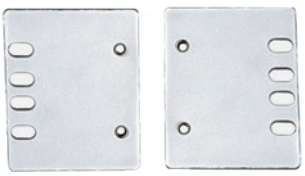
1 Select colour.
N = Blue
E = Orange
G = Green
W = White
C = Slate
R = Red
B = Black
Y = Yellow
V = Violet
P = Rose
A = Aqua
K = Beige

Must order in multiples of 100.

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 UP C 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	
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	

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	

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™ 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	
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 modules 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	

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