CORNING

EDGE™ Solutions

EDGE™ Solutions for Enterprise Data Centers and Storage Area Networks

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

Introducing EDGE™ Solutions

We interviewed over 3,000 data center operators and the answers were clear–infrastructure must be reliable, high-quality, flexible, manageable, scalable, and visible to support a 24/7 year-round operation.

Corning's award-winning EDGE™ solutions were developed to deliver on all of these priorities. In 2009, EDGE became the industry's first high-density preterminated optical cabling system designed specifically for the data center environment. It continues to drive the data center industry forward today. Corning's unwavering commitment to the EDGE Platform for over a decade means it's being continuously refined to simplify installation and improve performance.

Wide range of solutions for extended flexibility
EDGE solutions consist of an extensive range of housings, trunks, modules, adapter panels, harnesses, jumpers, and accessories.

Increased system density
EDGE solutions offer increased system density compared to traditional preterminated systems and the highest port density in the market.

Scale
EDGE and EDGE8 solutions are backed by Corning's robust operational infrastructure, meaning a durable supply chain and factory testing for a 100% product quality guarantee. And once your data center deployment is completed, you can expect more uptime than ever before.

Interoperability
As technology evolves and higher data rates become the norm, cabling infrastructures installed today must provide scalability to accommodate more bandwidth. Since EDGE8® and EDGE solutions are backward compatible, you can start small now and be ready for the future.

Innovative Corning® ClearCurve® optical fiber
Corning® ClearCurve® bend-optimized optical fiber is a core element across these solutions, ensuring reliability when designing custom-engineered components thanks to its significant reduction in macrobend loss even in the most challenging bend scenarios.

Preterminated components allow for reduced installation time and faster moves, adds, and changes (MACs)
Factory-terminated solutions provide improved system performance, ensure component compatibility, and yield consistent high quality.

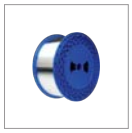
Always improving
EDGE is always looking forward through new innovations. Future facing components like the EDGE Distribution System and EDGE Rapid Connect accelerate installation by 70%.

Advanced Cleaning Technology
All EDGE solutions, with the exception of TAP modules and 24-fiber MTP® single-mode assemblies, are manufactured with Corning® CleanAdvantage™ technology, a new cleaning process implemented at the factory-level 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 shipped with optimized dust caps engineered to maintain end-face cleanliness until the first mating connection. CleanAdvantage eliminates the need for scoping and cleaning prior to the initial field connection, reducing installation time and cost.

EDGE™ Innovation Timeline

Across the years, we've expanded the EDGE™ portfolio to include a wide breadth of solutions. Our commitment to this groundbreaking platform has led to award-winning performance that has been deployed in thousands of data centers worldwide.

1970



Low-Loss Optical Fiber

1998

Plug & Play™ Hardware Preterminated Solutions

2007

Ultra-bendable Corning® ClearCurve® optical fiber fundamentally changes the way fiber is deployed, helping bring fiber to the home and driving new innovation in data center infrastructure design.

2009

EDGE™ Solutions

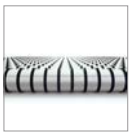
2012

EDGE™ Tap Module

2015

EDGE8® Solutions

2017



Corning delivers 1 billionth kilometer of optical fiber

2018

MTP® PRO

2020

Corning® Clean Advantage™ Connectivity

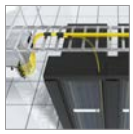
2021

EDGE™ Rapid Connect Solution

2021

EDGE™ MDC Module

2022



EDGE™ Distribution System (EDS)

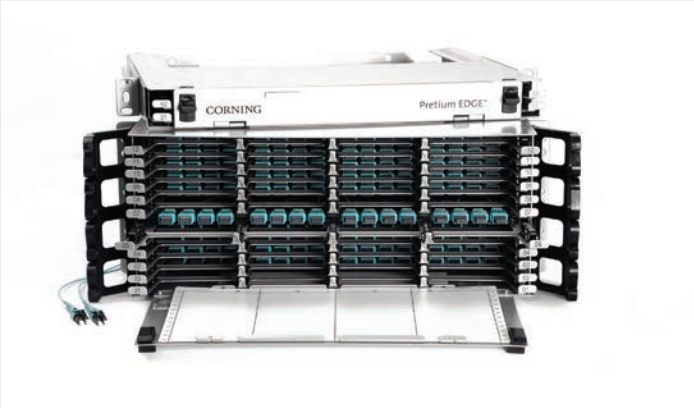
2023

Corning Configured Racks

Contents

EDGE™ Solutions Overview

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



EDGE Solutions | Photo LAN2279

Features and Benefits

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

Corning® ClearCurve® fiber creates smaller-form-factor components for more rugged cabling
Reduces congestion within and between racks for improved airflow and less risk of downtime due to pinched or bent cables.

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

MTP assemblies with reduced footprint and cable OD
Reduces congestion in high-connectivity environment.
Provide easier access to modules and panel.

EDGE™ reverse polarity uniboot jumpers
Enables quick-and-easy polarity management.

New mounting system and improved mounting brackets
Allows for one-person installation and depth adjustment in the rack.

Bracket option for 23-in rack
Offers the ultimate design flexibility.

Snap-in strain-relief clips
Provides easier cable management.

Connected Mated Pair – Low Loss		
	Insertion Loss, Maximum OM3/OM4/OM5	OS2
LC Connector	0.15 dB	0.25 dB
MTP Connector	0.35 dB	0.75 dB

MTP to LC Modules – Low Loss		
	Insertion Loss, Maximum OM3/OM4/OM5	OS2
Component Value	0.5 dB	1.0 dB

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

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

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

Conversion Module/Conversion Harness	
	Insertion Loss, Maximum OM4
Component Value	0.5 dB

EDGE™ Solutions HD Housing

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

EDGE-01U | Photo LAN1693

EDGE-01U-SP | Photo LAN7370

EDGE-02U | Photo LAN6656

EDGE-04U | Photo LAN6680

Features and Benefits

Sliding drawers

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

Quick mounting system

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

Removable top covers on the 1U and 2U housings

Provides easier access to modules and panels.

Total flexibility in the same HD housing

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

High-port concentration with LC duplex and MTP Base-12 system

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

Ordering Information

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

Notes:

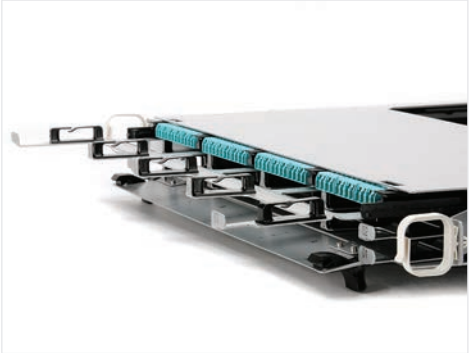
- When rear strain-relief plate is removed from part number EDGE-01U-SP, product depth reduces to 14.9 in.
- EDGE-01U has sliding inner assembly. EDGE-01U-SP does not have sliding inner assembly.

EDGE™ FX Housing

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

Ordering Information					
Part Number	Height	Dimensions (W x D x H)	Packaging Dimensions (W x D x H)	Shipping Weight	Number of Panels per Housing
EDGE-01U-EMOD	1U	432 mm x 107 mm x 44.5 mm (17 in x 4.2 in x 1.75 in)	534 mm x 201 mm x 138 mm (21 in x 7.9 in x 5.4 in)	1.14 kg (2.5 lb)	8
EDGE-01U-EMOD-SP	1U	432 mm x 107 mm x 44.5 mm (17 in x 4.2 in x 1.75 in)	534 mm x 201 mm x 138 mm (21 in x 7.9 in x 5.4 in)	1.22 kg (2.7 lb)	12
EDGE-01U-FP	1U	488 mm x 439 mm x 43 mm (19.2 in x 17.3 in x 1.7 in)	584 mm x 470 mm x 152 mm (22.9 in x 18.5 in x 5.9 in)	4.4 kg (9.6 lb)	8
EDGE-02U-FP	2U	432 mm x 434 mm x 89 mm (17 in x 17.1 in x 3.5 in)	569 mm x 346 mm x 229 mm (22.4 in x 13.6 in x 9 in)	6.4 kg (14 lb)	16
EDGE-04U-FP	4U	432 mm x 434 mm x 178 mm (17 in x 17.1 in x 7 in)	567 mm x 346 mm x 320 mm (22.4 in x 13.6 in x 7.25 in)	9.6 kg (21 lb)	32
EDGE-FZB-04U	-	527 mm x 527 mm x 241 mm (20.75 in x 20.75 in x 9.5 in)	656 mm x 643 mm x 356 mm (25.8 in x 25.3 in x 14 in)	17.8 kg (39 lb)	32
EDGE-SMH	-	152 mm x 102 mm x 25 mm (6 in x 4 in x 1 in)	229 mm x 184 mm x 57 mm (9 in x 7.25 in x 2.25 in)	1 kg (3 lb)	1

EDGE-01U-EMOD | Photo LAN4821



EDGE-01U-FP | Photo LAN2656

EDGE-02U-FP | Photo REN1610

EDGE-04U-FP | Photo REN1575

EDGE-SMH | Photo REN3548

EDGE-FZB-04U | Photo LAN1868

EDGE™ Trunks

EDGE™ MTP® trunks are preterminated cables with MTP PRO connectors. Available in MTP to MTP or MTP to LC configurations, these trunks provide the backbone of the passive network infrastructure and enable rapid deployment for your campus LAN or data center facility. All trunks are manufactured with Corning® CleanAdvantage™ technology and shipped with strain-relief clips, allowing for easy and quick tool-less installation in both EDGE solutions and Plug & Play™ systems housings.

Features and Benefits

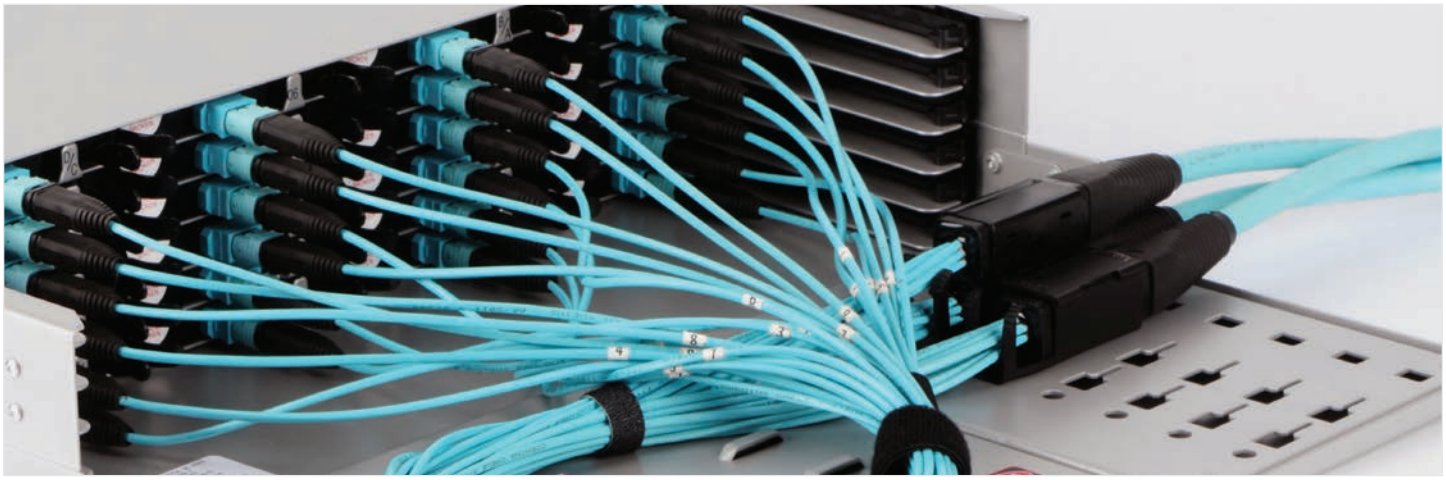
Corning CleanAdvantage technology with optimized dust caps
Eliminates the need for scoping and cleaning prior to initial field connection.

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

Snap-in strain-relief clips
Provides easier cable management.

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

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



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

EDGE MTP to MTP Trunk | Photos REN7793 and REN7794

EDGE MTP to LC Hybrid Trunk | Photos REN7962 and REN7963

Trunk Specifications

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

Mechanical Characteristics

Fiber Count	Nominal Outer Diameter	Pulling Grip Outer Diameter	Furcation Type	Minimum Conduit Size with 18-in Elbow	Weight	Minimum Bend Radius (Installation - 15x OD)	Minimum Bend Radius (Operation - 5x OD)
Non-Armored Cable Specifications							
12	5.5 mm ± 0.3 mm (0.22 in)	41 mm (1.6 in)	EDGE Size 1	2.5 in	32 kg/km (22 lb/1,000 ft)	82.5 mm (3.25 in)	27.5 mm (1.08 in)
24	7.7 mm ± 0.3 mm (0.30 in)	41 mm (1.6 in)	EDGE Size 1	2.5 in	50 kg/km (34 lb/1,000 ft)	115.5 mm (4.55 in)	38.5 mm (1.52 in)
36	8.0 mm ± 0.3 mm (0.31 in)	41 mm (1.6 in)	EDGE Size 1	2.5 in	56 kg/km (38 lb/1,000 ft)	120 mm (4.72 in)	40 mm (1.57 in)
48	8.5 mm ± 0.3 mm (0.33 in)	56 mm (2.2 in)	EDGE Size 2	3.0 in	63 kg/km (42 lb/1,000 ft)	127.5 mm (5.02 in)	42.5 mm (1.67 in)
72	10.5 mm ± 0.3 mm (0.41 in)	56 mm (2.2 in)	EDGE Size 2	3.0 in	93 kg/km (62 lb/1,000 ft)	157.5 mm (6.2 in)	52.5 mm (2.07 in)
96	11.9 mm ± 0.3 mm (0.47 in)	56 mm (2.2 in)	EDGE Size 2	3.0 in	111 kg/km (75 lb/1,000 ft)	178.5 mm (7.03 in)	59.5 mm (2.34 in)
144	12.5 mm ± 0.3 mm (0.49 in)	56 mm (2.2 in)	EDGE Size 2	3.0 in	130 kg/km (87 lb/1,000 ft)	187.5 mm (7.38 in)	62.5 mm (2.46 in)
192	13.5 mm ± 0.8 mm (0.33 in)	38.1 mm (1.5 in)	Heat-shrink	2.0 in	182 kg/km (122 lb/1,000 ft)	202.5 mm (7.97 in)	67.5 mm (2.66 in)
216	14.0 mm ± 0.8 mm (0.55 in)	38.1 mm (1.5 in)	Heat-shrink	2.0 in	195 kg/km (131 lb/1,000 ft)	210 mm (8.27 in)	70 mm (2.76 in)
288	16.0 mm ± 0.8 mm (0.63 in)	38.1 mm (1.5 in)	Heat-shrink	2.0 in	238 kg/km (160 lb/1,000 ft)	250 mm (9.45 in)	80 mm (3.15 in)
432	22.9 mm ± 0.8 mm (0.90 in)	48.3 mm (1.9 in)	Heat-shrink	2.5 in	400 kg/km (269 lb/1,000 ft)	343.5 mm (13.52 in)	114.5 mm (4.51 in)
576	24.5 mm ± 0.8 mm (0.96 in)	48.3 mm (1.9 in)	Heat-shrink	2.5 in	472 kg/km (317 lb/1,000 ft)	367.5 mm (14.47 in)	122.5 mm (4.82 in)
Armored Cable Specifications							
12	11.3 mm ± 1.5 mm (0.45 in)	51 mm (2.0 in)	P&P Size 1	3.0 in	109 kg/km (73 lb/1,000 ft)	169.5 mm (6.67 in)	56.5 mm (2.22in)
24	13.7 mm ± 1.5 mm (0.54 in)	51 mm (2.0 in)	P&P Size 1	3.0 in	145 kg/km (97 lb/1,000 ft)	205.5 mm (8.09 in)	68.5 mm (2.70 in)
36	13.7 mm ± 1.5 mm (0.54 in)	51 mm (2.0 in)	P&P Size 1	3.0 in	151 kg/km (102 lb/1,000 ft)	205.5 mm (8.09 in)	68.5 mm (2.70 in)
48	15.1 mm ± 1.5 mm (0.59 in)	51 mm (2.0 in)	P&P Size 1	3.0 in	167 kg/km (113 lb/1,000 ft)	226.5 mm (8.92 in)	75.5 mm (2.97 in)
72	16.6 mm ± 1.5 mm (0.65 in)	51 mm (2.0 in)	P&P Size 1	3.0 in	207 kg/km (140 lb/1,000 ft)	249 mm (9.80 in)	83 mm (3.27 in)
96	17.3 mm ± 1.5 mm (0.68 in)	51 mm (2.0 in)	P&P Size 1	3.0 in	232 kg/km (156 lb/1,000 ft)	259.5 mm (10.22 in)	86 mm (3.41 in)
144	18.8 mm ± 1.5 mm (0.74 in)	51 mm (2.0 in)	P&P Size 1	3.0 in	260 kg/km (175 lb/1,000 ft)	282 mm (11.10 in)	94 mm (3.70 in)

Transmission Performance

Fiber Type*	Multimode	Multimode	Multimode	Multimode
Fiber Core Diameter (µm)†	50	50	50	8.2
Fiber Category‡	OM3	OM4	OM5	OS2
Fiber Code	T	Q	V	G
Wavelengths (nm)	850/1300	850/1300	850/953/1300	1310/1383/1550
Maximum Attenuation (dB/km)	2.8/1.0	2.8/1.0	2.8/1.0	0.4/0.4/0.3
Minimum Overfilled Launch (OFL) Bandwidth MHz•km	1500/500	3500/500	3500/1850/500	–
Minimum Effective Modal Bandwidth (EMB) MHz•km	2000/–	4700/–	4700/2470/–	–
Serial 1 Gigabit Ethernet (m)	1000/600	1100/600	1100/600/–	5000/–/–
Serial 10 Gigabit Ethernet (m)	300/–	550/–	550/–/–	100000/–/40000
Induced Attenuation @ 7.5 mm Radius dB	< 0.2 (2 turns, 850 nm)	< 0.2 (2 turns, 850 nm)	< 0.2 (2 turns, 850 nm)	–

*Single-mode (OS2) fiber is ITU-T G.652.D compliant.
†50 µm multimode fiber (OM3/OM4) meets 0.75 ns optical skew when used in all Corning Plug & Play™/EDGE™ systems solutions.
‡OM3/OM4 multimode fiber minimum effective modal bandwidth assumes 1.0 dB maximum total connector/splice loss.

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

Optical Performance Multimode

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

Optical Performance Single-mode

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

*Note: IL in preconnectorized products is measured in the factory through two mated pairs.

Trunk Shipping Information

Reel Capacities – 12 to 144 Fibers (Armored)					
Packaging Method	Box H	AA (32)	AB (36)	AC (42)	Z (48)
Packaging Material	Corrugated box	Plastic reel	Plastic reel	Plastic reel	Plywood reel
Reel Diameter (in)		32	36	42	48
Reed Width (in)		20	20	20	35.5
Box Dimensions (in)	31 x 31.5 x 7	-	-	-	-
Fiber Count	Capacities (ft)				
12	10-50	51-3,227	3,228-4,957	4,958-6,100	-
24	10-50	51-2,196	2,197-3,372	3,373-4,100	-
36	10-50	51-1,496	1,497-2,380	2,381-4,100	-
48	10-50	51-1,450	1,451-2,300	2,301-4,000	-
72	10-50	51-1,250	1,251-2,297	2,298-2,850	2,851-5,600
96	10-50	51-940	940-1,530	1,531-2,580	2,581-2,900
144	10-50	51-680	680-1,240	1,241-2,200	2,201-2,500

Reel Capacities – 12 to 144 Fibers (Non-Armored)							
Packaging Method	Box E	Box H	Small EDGE™	Med EDGE	Large EDGE	AA	AB
Packaging Material	Corrugated Box	Corrugated Box	Plastic Reel	Plastic Reel	Plastic Reel	Plastic Reel	Plastic Reel
Reel Diameter (in)	-	-	19.5	19.5	19.5	32	36
Reel Width (in)	-	-	5	10	16	20	20
Box Dimensions (in)	21 x 21 x 3.3	31x 31.5 x 7					
Fiber Count	Capacities (ft)						
12	10-110	111-170	171-650	651-1900	1901-3000	3001-5000	5001-10900
24	10-110	111-170	171-500	501-1000	1001-1600	1601-2300	2301-5300
36	10-110	111-170	171-450	451-950	951-1500	1501-2200	2201-5100
48	10-110	111-170	171-350	351-900	901-1450	1451-2000	2001-4500
72	10-80	81-120	121-200	201-600	601-950	951-1200	1201-3000
96	10-80	81-120	121-180	181-450	451-750	751-1000	1001-2300
144	10-80	81-120	121-150	151-350	351-650	651-920	921-2100

Trunk Shipping Information

Reel Capacities – 192 to 576 Fibers (Non-Armored)					
Packaging Method	**Box H**	**AA (32)**	**AB (36)**	**AC (42)**	**Z (48)**
Packaging Material	Corrugated box	Plastic reel	Plastic reel	Plastic reel	Plywood reel
Reel Diameter (in)		32	36	42	48
Reed Width (in)		20	20	20	35.5
Box Dimensions (in)	31 x 31.5 x 7	-	-	-	-
Fiber Count	**Capacities (ft)**				
192	10-202	203-836	837-1,824	1,825-3,271	3,272-8,800
216	10-172	173-777	778-1,696	1,697-3,041	3,042-8,200
288	10-137	138-593	594-1,299	1,300-2,394	2,395-6,200
432	10-66	67-292	293-633	634-1,246	1,247-3,000
576	10-61	61-252	253-554	555-1,089	1,090-2,685

EDGE™ MTP® Trunk Cables

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

EDGE MTP Trunk Cable | Photos REN7793

Ordering Information

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

**For custom labels, add the letter "L" as prefix to the part number e.g., LG757548QPNDDUxxxF*
Print for custom labels can be up to 30 characters. Information to be printed on custom labels must be provided at the time of order.

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

2 Select MTP PRO connector.
(end one on outside of reel).
75 = MTP 12 F (non-pinned) multimode
90 = MTP 12 F (non-pinned) single-mode
00 = Pigtail *(Only available with straight-through polarity)*

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

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

4 Select standard fiber count.

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

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

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

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

7 Select leg length.
(end one on outside of reel).
D = 33 in (+3.5/-1.0 in)*
0 = Pigtail

Furcation legs are color-coded by fiber type.

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

Furcation legs are color-coded by fiber type.

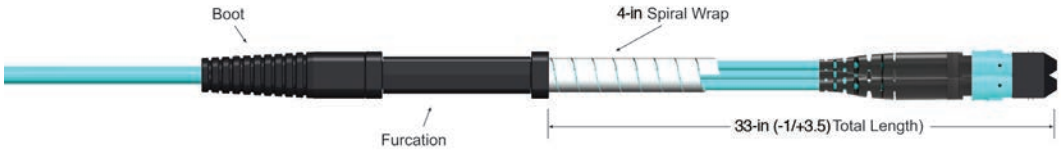
9 Select trunk type.
U = Standard Type-B
P = Straight-through Type-A

10 Select cable length.
005-999 ft
(1 ft increments measured from furcation to furcation)

002-300 m
(1 m increments measured from furcation to furcation)

Longer cable lengths available upon request.

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



EDGE Solutions Trunk Cable Configuration | Drawing ZA-3496

EDGE™ MTP® Extender Trunk Cables

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

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

EDGE MTP Trunk Cable | Photos REN7793

Ordering Information

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

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

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

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

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

4 Select standard fiber count.

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

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

6 Select cable type.
PN = Plenum, non-armored
AD = Plenum, BX armored
**Armored cable only available for fiber counts less than or equal to 144 F.*

7 Defines leg length.
(end one on outside of reel).
C = 60 in (+3.5/-1.0 in)*
Mates with trunk (long leg reaches from rear to the front side of housing)

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

9 Defines trunk type.
X = Extender

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

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

EDGE Solutions Extender Trunk Cable Configuration | Drawing ZA-3869

Hybrid MTP® to LC Uniboot Trunks

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

EDGE Hybrid MTP to LC Uniboot Trunks | Photo REN7796

Ordering Information

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

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

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

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

4 Select standard fiber count.
12 = 12 fiber
24 = 24 fiber
36 = 36 fiber
48 = 48 fiber
72 = 72 fiber
96 = 96 fiber
E4 = 144 fiber

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

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

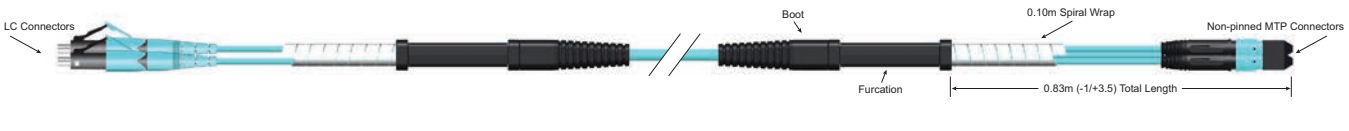
7 Defines leg length.
(end one on outside of reel).
D = 33 in (+3.5/-1.0 in)*
Mates with module

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

9 Defines trunk type.
W = Universal hybrid trunk

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

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



EDGE Solutions Hybrid Trunk Configuration | Drawing ZA-3870

Hybrid MTP® to LC Uniboot Extender Trunks

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

EDGE Hybrid MTP to LC Uniboot Extender Trunk | Photo REN7796

Ordering Information

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

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

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

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

4 Select standard fiber count.
12 = 12 fiber
24 = 24 fiber
36 = 36 fiber
48 = 48 fiber
72 = 72 fiber
96 = 96 fiber
E4 = 144 fiber

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

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

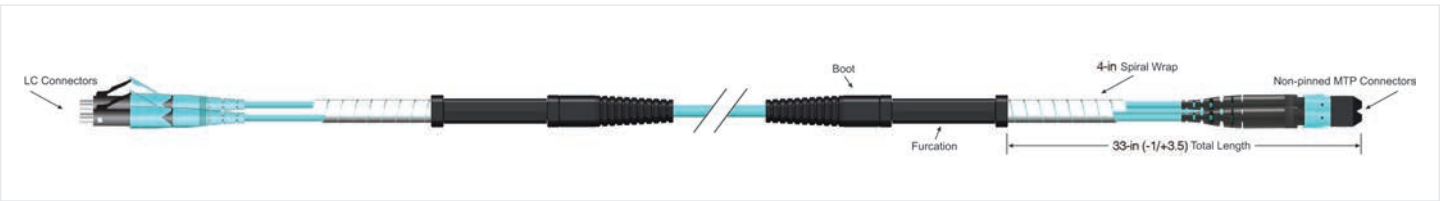
7 Defines leg length.
(end one on outside of reel).
C = 60 in (+3.5/-1.0 in)*
Mates with trunk

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

9 Defines trunk type.
Z = Universal hybrid extender

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

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

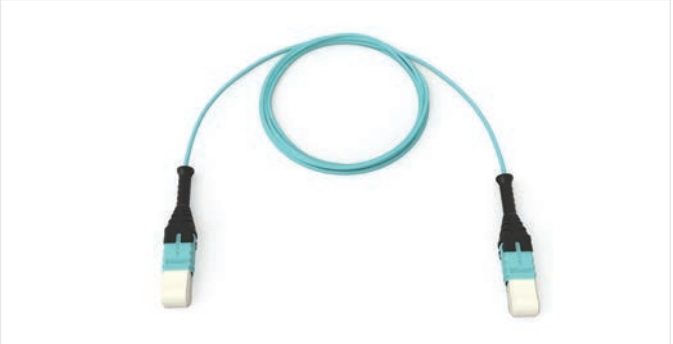


EDGE Solutions Hybrid Extender Trunk Configuration | Drawing ZA-3871

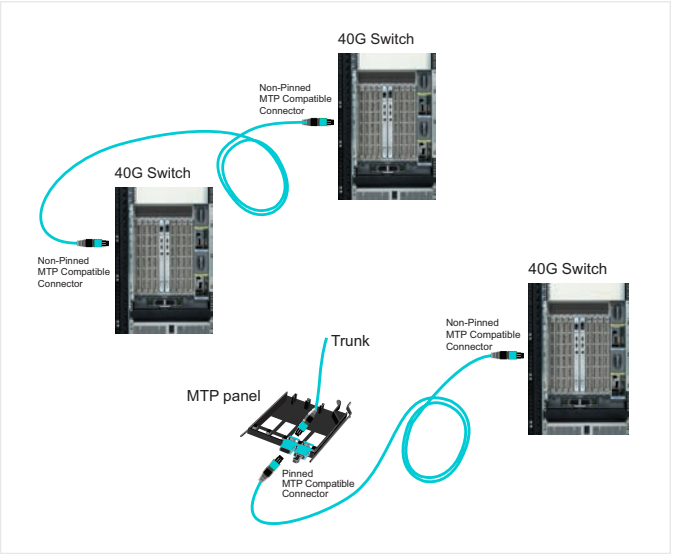
EDGE™ MTP® Jumpers

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

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



EDGE MTP Jumper | Photo REN7928



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

Ordering Information

*	J	□□	□□	12	□	E8	-	N	□	□□□	□
		1	2		3	4		5	6	7	8

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

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

2 Select MTP PRO connector.
75 = MTP 12 F (non-pinned) multimode
93 = MTP 12 F (pinned) multimode
89 = MTP 12 F (pinned) single-mode
90 = MTP 12 F (non-pinned) single-mode

Note: Always list lowest numbered connector first.

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

4 Defines cable type.
E8 = Plenum, interconnect

5 Select jumper.
N = Jumper, no furcation

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

Note: For jumper polarity, reference ***AEN151****.*

7 Select jumper length.
003-200 ft
(Measured in 1 ft increments)
001-060 m
(Measured in 1 m increments)

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

EDGE™ MTP® 24-F Jumpers

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

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EDGE 24-F MTP Jumper | Photo LAN4167

Ordering Information

J □□ □□ 24 □ PH - N A □□□ □

1 2 3 4 5 6 7 8

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

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

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

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

5 Defines jumper.
N = Jumper, no furcation

6 Select polarity.
A = Type-A , polarity

7 Select jumper length.
003-200 ft
(Measured in 1 ft increments)
001-060 m
(Measured in 1 m increments)

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

*Note: Refer to **AEN150** for application guidance.*

EDGE™ Harnesses

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

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

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

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

Features and Benefits

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

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

Low-loss connectivity
Enables system design flexibility.

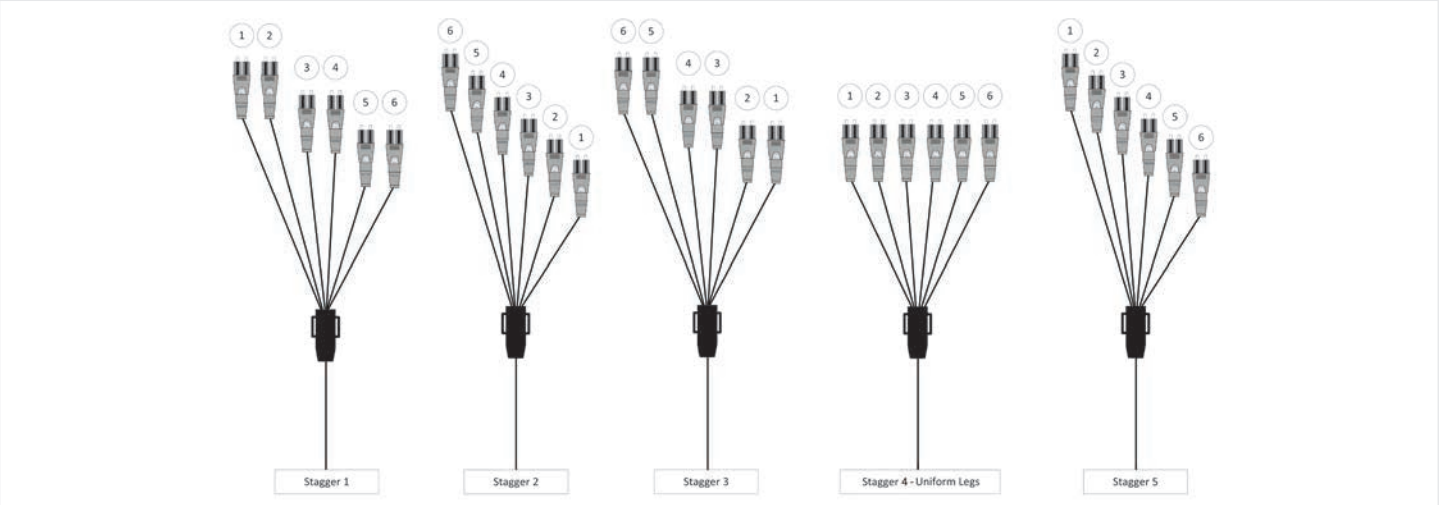
Bend-improved fiber
Allows tighter cable bends for slack storage and routing, less risk of downtime due to pinched or bent cables.

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

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

EDGE MTP to LC Uniboot Harness, nonstaggered | Photo REN7795

EDGE 2x3 Conversion Harness | Photo REN7929



EDGE Staggered Harness Offerings

EDGE™ MTP® to LC Uniboot Staggered Harnesses

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

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

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

EDGE MTP to LC Uniboot Staggered Harnesses | Photo REN7933

Ordering Information

H □□ □□ 12 □ PH - □ □ □□□ □

1 2 3 4 5 6 7 8

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

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

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

4 Defines cable type.
PH = Plenum, harness

5 Select leg length in inches.
(leg OD is 2.0 mm).
1 = Type 1 Stagger
2 = Type 2 Stagger
3 = Type 3 Stagger
4 = Type 4 Stagger (uniform)
5 = Type 5 Stagger

*Note: For harness stagger type, reference **AEN157**.*

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

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

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

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

*An EDGE **harness** should have **Type-A polarity** and a **pinned MTP PRO** connector when connecting to a **trunk.***
*An EDGE **harness** should have **Type-B polarity** and a **non-pinned MTP PRO** connector when connecting to a **module.***
Harness length is measured from MTP connector to furcation plug and therefore does not include LC leg length.

EDGE™ MTP® to LC Uniboot Nonstaggered Harnesses

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

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

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

EDGE MTP to LC Uniboot Nonstaggered Harnesses | Photo REN7795

Ordering Information

H □□ □□ 12 □ PH - □ □ □□□ □

1 2 3 4 5 6 7 8

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

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

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

4 Defines cable type.
PH = Plenum, harness

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

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

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

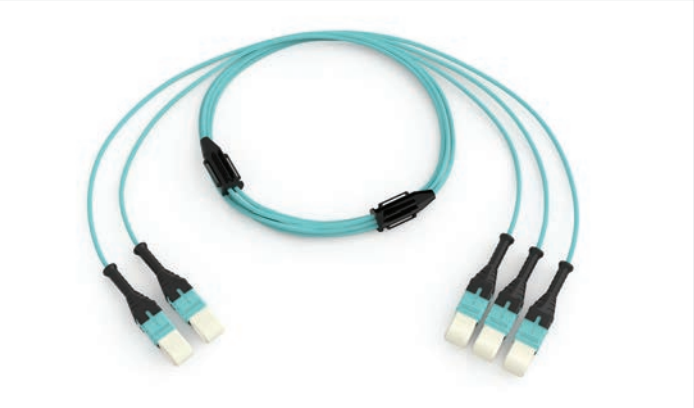
8 Select unit of measure.
F = Feet
M = Meters

*An EDGE **harness** should have **Type-A polarity** and a **pinned MTP PRO** connector when connecting to a **trunk.***
*An EDGE **harness** should have **Type-B polarity** and a **non-pinned MTP PRO** connector when connecting to a **module.***
Harness length is measured from MTP connector to furcation plug and therefore does not include LC leg length.

EDGE™ Conversion Harnesses

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

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



EDGE 2x3 Conversion Harness | Photo REN7929

Ordering Information

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

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

2 Select the 12-fiber MTP connector leg length in inches (leg OD is 2.6 mm).
K = 24 in (+3.5/-1.0 in)
L = 36 in (+3.5/-1.0 in)

3 Select the 8-fiber MTP connector leg length in inches (leg OD is 2.6 mm).
K = 24 in (+3.5/-1.0 in)
L = 36 in (+3.5/-1.0 in)

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

*Note: Refer to **AEN151** for application information.*

EDGE™ 24-Fiber "Y" Harnesses

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

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

EDGE 24-Fiber "Y" Harness | Photo REN7941

Ordering Information

H □□ □□ 24 □ PH - □ □ □□□ F

1 2 3 4 5 6 7

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

2 Select 12-fiber MTP PRO connector.
75 = MTP 12 F (non-pinned) multimode
93 = MTP 12 F (pinned) multimode
89 = MTP 12 F (pinned) single-mode
90 = MTP 12 F (non-pinned) single-mode
.

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

4 Defines cable type.
PH = Plenum, harness

5 Select leg length in inches.
K = 24 in
L = 36 in

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

*Refer to **AEN150** for application and polarity information.*

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

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

EDGE™ 24-Fiber MTP® Breakout Harnesses

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

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

EDGE 24-Fiber MTP Breakout Harness | Photo REN7937

Ordering Information

H □□ □□ □□ □ PH - □ □ □□□ F

1 2 3 4 5 6 7 8

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

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

3 Select fiber count.
24 = 24 fiber
20 = 20 fiber
20 fiber only available for LC duplex breakout connectors

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

5 Defines cable type.
PH = Plenum, harness

6 Select breakout leg length.
K = 24 in
L = 36 in

7 Select polarity.
A = Type-A polarity
B = Type-B polarity
*Refer to **AEN150** and **AEN156** for application and polarity information.*

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

EDGE™ Tap Harnesses

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

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

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

EDGE Tap Harness | Photo REN7939

Ordering Information

H ☐☐ ☐☐ 12 ☐ E8 - ☐ B ☐☐☐ ☐

1 2 3 4 5 6

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

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

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

4 Select leg length in inches. (leg OD is 2.0 mm).
J = 12 in (+3.5/-1.0 in)
K = 24 in (+3.5/-1.0 in)
L = 36 in (+3.5/-1.0 in)

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

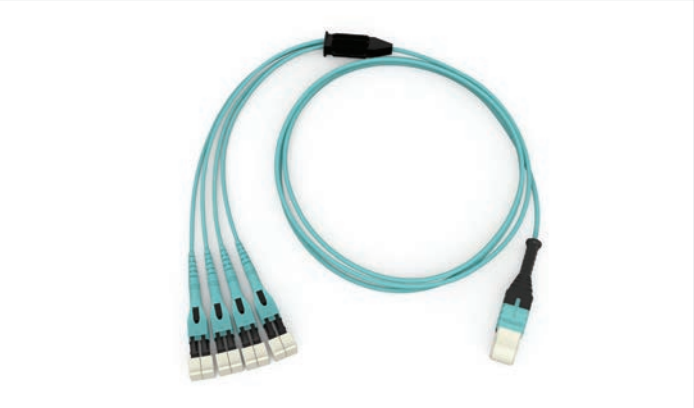
001-060 m
(1 m increments measured from plug to MTP, does not include leg length)

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

*Note: Refer to **AEN164** for application information.*

EDGE8® MTP® to LC Harnesses

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



EDGE8 Harness | Photo REN7931

Ordering Information

H □□ 79 08 □ PH - □ □ □□□ □

1 2 3 4 5 6 7 8

1 Select MTP PRO Connector
E5 = MTP 8 F (pinned) multimode
E6 = MTP 8 F (non-pinned) multimode

2 Select the breakout connector type.
79 = LC uniboot multimode

LCs are universally wired

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

4 Defines cable type.
PH = Plenum, harness

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

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

*Note: For harness polarity, reference **AEN152**.*

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

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

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

EDGE™ Modules

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

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

Features and Benefits

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

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

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

High density
Enables 576 fibers in a 4U housing and 144 fibers in a 1U.

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

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

Corning® CleanAdvantage™ technology and optimized dust caps
Eliminates the need for scoping and cleaning prior to initial field connection (excludes mesh modules and Tap modules).

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

Conversion modules offer the industry's best rack density for parallel optics
72 MTP ports per 1U enable higher-revenue generation per rack unit.

EDGE MTP to LC Module | Photo REN6521

EDGE Conversion Module | Photo REN7071

Ultra-Low-Loss Modules

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

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

EDGE Module | Photo REN6521

Ordering Information

ECM - ☐☐ 12 - ☐☐ - ☐☐☐ - ULL - ☐*

1 2 3 4 5 6

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

2 Defines fiber count.
12 = 12 fibers

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

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

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

6 Defines modules.
Z - 4 pack
*Leave blank for single pack

**Note: If you leave this blank you will get a single module*

Low-Loss Modules

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

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

EDGE Module | Photo REN6521

Ordering Information

ECM - ☐☐ 12 - ☐☐ - ☐☐☐ - ☐*

1 2 3 4 5 6

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

2 Defines fiber count.
12 = 12 fibers

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

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

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

6 Defines modules.
Z - 4 pack
*Leave blank for single pack

**Note: If you leave this blank you will get a single module*

EDGE™ Conversion Modules

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

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

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

EDGE 2x3 Conversion Module | Photo REN7106

EDGE 4x6 Conversion Module | Photo REN7071

Ordering Information

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

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

EDGE™ Mesh Modules

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

EDGE Multimode Mesh Module | Photo REN890

EDGE Single-Mode Mesh Module | Photo REN899

Ordering Information

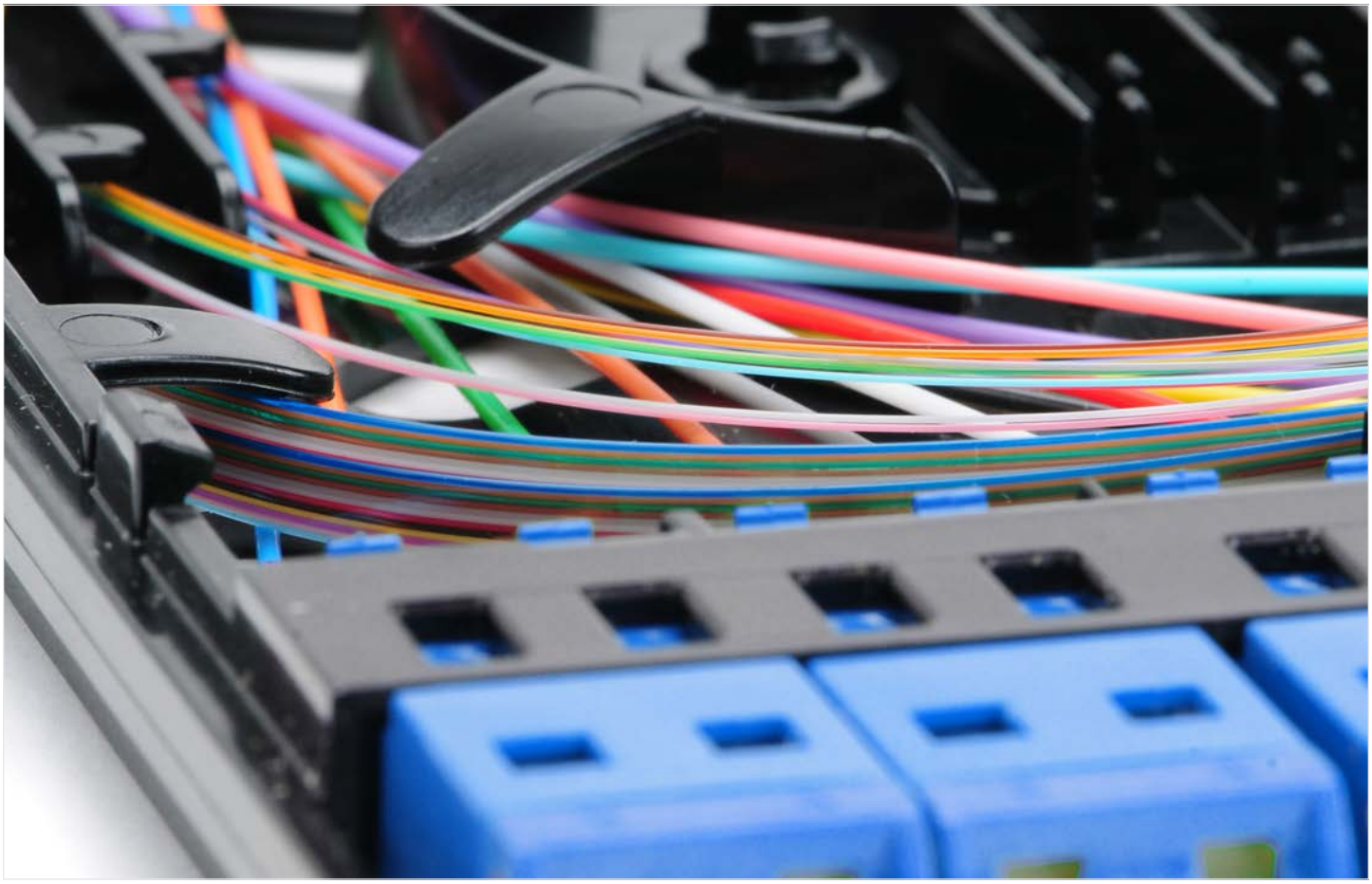
Part Number	Adapter Type Front	Adapter Color Front	Adapter Type Back	Fiber Category
EMM-MM32-9393Q	Shuttered MTP (pinned)	Aqua	MTP (Pinned)	50 µm Multimode (OM4)
EMM-MM32-9375Q	Shuttered MTP (pinned)	Aqua	MTP (Non-pinned)	50 µm Multimode (OM4)
EMM-SM32-8989G	Shuttered MTP (pinned)	Black	MTP (Pinned)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

EDGE™ SE Splice Cassettes

The EDGE™ SE Solution is an innovative field-termination addition to the award-winning EDGE solution for high-density data center cabling infrastructure systems. The integral termination cassette allows for a wide range of fiber 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 fiber 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 organizers together in the cassette allows for superior fiber handling and safety of terminated fibers giving greater flexibility and confidence in Day 2 moves, adds, and changes (MACs).

With the ability to add fibers 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 fibers are continuously added through a product or data center's lifetime, such as colocation meet-me rooms or customer access point, more convenient.



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

EDGE™ Multi-Splice Cassettes

The preloaded multi-splice cassettes accommodate fusion splicing and come with 12 colored LC pigtails (Telcordia color code), heat-shrink or crimp splice organizers and accept loose tube or tight-buffered cables for termination of multiple fiber 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 Color Front	Fiber 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 fiber)	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 preloaded multi-splice cassettes accommodate fusion splicing and come with 12 colored LC pigtails (Telcordia color code), heat-shrink or crimp splice organizers 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 Color Front	Fiber 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 termination of fibers 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 Color Front	Fiber 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	Fiber 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

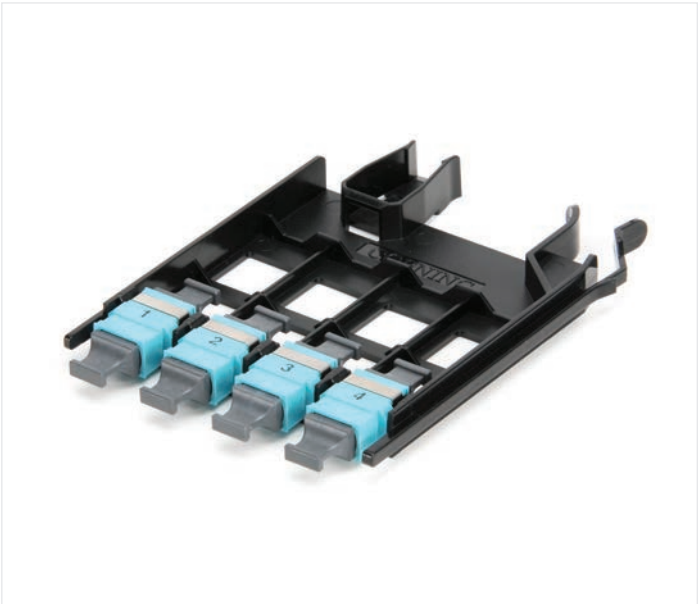
For OM4 heather violet, please use AV connector code.

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 jumpers.

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

EDGE 72-Fiber MTP Panel | Photo LAN4147



MTP Adapter Panel with Four MTP Adapters | Photo LAN2695

Ordering Information

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

EDGE™ Tap Modules

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

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

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

*Note: Refer to **AEN164** for application information.*

Features and Benefits

Network monitoring and tap splitters integrated into the structured cabling
Eliminates need for additional rack space and downtime associated with port tap changes .

Rear-exiting, MTP® connector-based tap ports
Zero-rack-space impact results in higher revenue generation per rack unit.

Advanced splitter technology
Maintains equal modal power distribution, reducing insertion loss for increased link reach.

EDGE™ solutions-based footprint
Integrates seamlessly into an existing EDGE solutions infrastructure.

Universal polarity management
Eliminates the frustration of needing to flip connector pairs or modules.

Application defined split ratio
Provides 50/50 split ratio for Ethernet (DC LAN) and 70/30 split ratio for Fiber Channel (DC SAN) environments.

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

LC Duplex to LC Duplex Tap Modules

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

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

LC to LC Multimode Tap Module | Photo REN3556

LC to LC Single-Mode Tap Module | Photo REN3563

LC to LC Duplex BiDi Tap Module | Photo REN3554

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

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

Specs							
Part Number	Fiber Type	Split Ratio	Splitter Loss (dB) Live/Tap	LC Connector Loss (dB)	MTP Connector Loss (dB)	Tap Module's Live Link Loss (dB)	Tap Module's Tap Link Loss (dB)
ETM-5A-Q	OM4	50/50	3.7/3.7	0.15	N/A	4	4
ETM-5A-Q-BD	OM4	50/50	3.7/3.7	0.15	N/A	4	4
ETM-7A-Q	OM4	70/30	1.8/5.8	0.15	N/A	2.1	6.1
ETM-5A-G	OS2	50/50	3.5/3.5	0.25	N/A	4	4
ETM-7A-G	OS2	70/30	2.0/5.8	0.25	N/A	2.5	6.3

MTP® to LC Duplex Tap Modules

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

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

MTP to LC Duplex Multimode Tap Module | Photo REN3557

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

MTP to LC Duplex BiDi Tap Module | Photo REN3552

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

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

Specs							
Part Number	Fiber Type	Split Ratio	Splitter Loss (dB) Live/Tap	LC Connector Loss (dB)	MTP Connector Loss (dB)	Tap Module's Live Link Loss (dB)	Tap Module's Tap Link Loss (dB)
ETM-5B-Q	OM4	50/50	3.7/3.7	0.15	0.35	4.2	4.4
ETM-5B-Q-BD	OM4	50/50	3.7/3.7	0.15	0.35	4.2	4.4
ETM-7B-Q	OM4	70/30	1.8/5.8	0.15	0.35	2.3	6.5
ETM-5B-G	OS2	50/50	3.5/3.5	0.25	0.75	4.6	5.1
ETM-7B-G	OS2	70/30	2.0/5.8	0.25	0.75	2.8	7.3

MTP® to MTP Connector Tap Modules

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

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

MTP to MTP Multimode Tap Module | Photo REN3559

MTP to MTP Single-Mode Tap Module | Photo REN3571

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

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

Specs							
Part Number	Fiber Type	Split Ratio	Splitter Loss (dB) Live/Tap	LC Connector Loss (dB)	MTP Connector Loss (dB)	Tap Module's Live Link Loss (dB)	Tap Module's Tap Link Loss (dB)
ETM-5C-Q	OM4	50/50	3.7/3.7	N/A	0.35	4.4	4.4
ETM-7B-Q	OM4	70/30	1.8/5.8	N/A	0.35	2.5	6.5
ETM-5C-Q-R	OM4	50/50	3.7/3.7	N/A	0.35	4.4	4.4
ETM-7B-Q-R	OM4	70/30	1.8/5.8	N/A	0.35	2.5	6.5
ETM-5C-G	OS2	50/50	3.5/3.5	N/A	0.75	5	5
ETM-7B-G	OS2	70/30	2.0/5.8	N/A	0.75	3.5	7.3
ETM-5C-G-R	OS2	50/50	3.5/3.5	N/A	0.75	5	5
ETM-7B-G-R	OS2	70/30	2.0/5.8	N/A	0.75	3.5	7.3
ETM-7C-Q-2X3	OM4	70/30	1.8 / 5.8	N/A	.35	2.5	6.5

EDGE™ LC Lockable Uniboot Jumpers

The EDGE™ LC lockable uniboot jumper is the newest addition to our acclaimed EDGE product portfolio. This state-of-the-art jumper delivers the same value as the LC uniboot connector and comes equipped with an integrated locking mechanism for your peace of mind. The new feature allows installers to lock uniboot jumpers in the field to prevent partial connections and accidental disconnects.

Features and Benefits

Corning® CleanAdvantage™ Technology and Optimized Dust Caps
Eliminates the need for scoping and cleaning prior to initial field connection.

Uniboot Design
Allows one cable to carry 2 fibers, reducing the jumper bulk when routing.

Lock-out
Eliminates partial connections and accidental disconnects.

Polarity Management
Reverse polarity without exposing fibers.

Multimode Assembly

Single-mode Assembly

Ordering Information

□□	□□	02	□	D	□	20	□□□	□
1	2		3		4		5	6

1 Select connector one type.
U9 = Multimode LC Uniboot (OM3/OM4)
U8 = Single-mode LC UPC Uniboot (OS2)

2 Select connector type two.
U9 = Multimode LC Uniboot (OM3/OM4)
U8 = Single-mode LC UPC Uniboot (OS2)

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

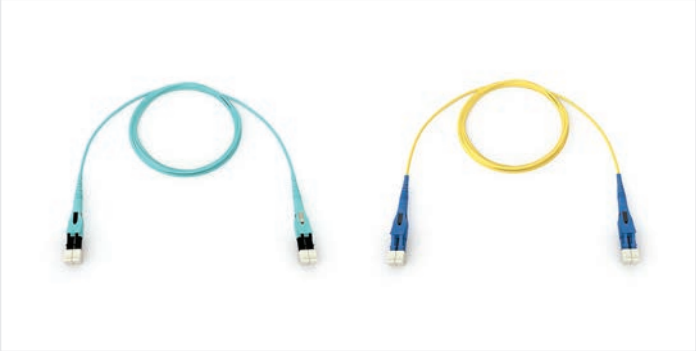
4 Select flame rate.
1 = Riser
8 = Plenum

5 Select length.
001-250 (tip-to-tip)

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

Reverse Polarity Uniboot Duplex Jumpers

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



Reverse Polarity Uniboot Duplex Jumpers | Photos REN6462 and REN6461

Features

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

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

Ordering Information

□□ □□ 02 □ D □ 20 □□□ □

1 2 3 4 5 6

1 Select connector one type.
79 = Multimode LC uniboot (OM3/OM4/OM5)
78 = Single-Mode LC UPC uniboot (OS2)
80 = Single-Mode LC APC uniboot (OS2)

2 Select connector two type.
79 = Multimode LC uniboot (OM3/OM4/OM5)
78 = Single-Mode LC UPC uniboot (OS2)
80 = Single-Mode LC APC uniboot (OS2)

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

4 Select flame rating.
1 = Riser
8 = Plenum

5 Select length.
001-250 (tip-to-tip)

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

Reverse Polarity LC Duplex Clips

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

EDGE™ Reverse Polarity Uniboot LC Duplex Clips | Photo LAN2254

Ordering Information

TRIGGER-BP-U-□
1

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

Note: Must order in multiples of 100.

Optical Distribution Frames

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

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

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

Features and Benefits

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

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

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

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

Corning Optical Distribution Frame | Photo REN7527

Corning Optical Distribution Frames

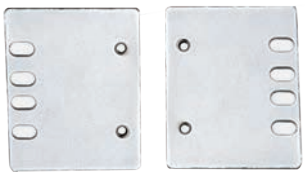
EDGE™ Optical Distribution Frames		
Part Number	Product Description	
PF2TDAFG5LCANNNN2PADQ	EDGE™ Optical Distribution Frame (ODF), left cable management, 7 ft	
PF2TDAFG5RCANNNN2PADQ	EDGE ODF, right cable management, 7 ft	
PC2TDAFG5LCAA2FA2PADQ	EDGE ODF, left cable management, 7 ft with doors	
PC2TDAFG5RCAB2FA2PADQ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

Cleaning Accessories

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

Housing Accessories

Part Number	Product Description	Units per Delivery	
EDGE8-TRAY-QTY1	EDGE8® Hardware Accessory, EDGE8 tray kit, quantity of 1	1/1	
EDGE8-TRAY-QTY12	EDGE8 Hardware Accessory, EDGE8 tray kit, quantity of 12	12/1	
EDGE-BKT-WT-2RU	Wire Tray Mounting Bracket for up to 2U of housing mounting space	1/1	
EDGE-BKT-WT-4RU	Wire Tray Mounting Bracket for up to 4U of housing mounting space	1/1	
EDGE-SMH-SLK	EDGE™ Single-Module Housing Slack Storage and Splicing Accessory, used in conjunction with the EDGE-SMH and EDGE panel in order to facilitate pigtail splicing or storage of slack beneath the EDGE single-module housing.	1/1	

Housing Accessories (continued)			
Part Number	Product Description	Units per Delivery	
EDGE-BKT-LR-2RU	Ladder Rack Mounting Bracket for up to 2U of housing mounting space	1/1	
EDGE-BKT-LR-4RU	Ladder Rack Mounting Bracket for up to 4U of housing mounting space	1/1	
EDGE-CDF-RJ04-BKT	EDGE™ Solutions Strain-Relief Bracket, accommodating four EDGE solutions clip parking positions	1/1	
EDGE-CDF-RJ08-BKT	EDGE Solutions Strain-Relief Bracket, accommodating eight EDGE solutions clip parking positions	1/1	
EDGE-CDF-RJ12-BKT	EDGE Solutions Strain-Relief Bracket, accommodating 12 EDGE solutions clip parking positions	1/1	
PC1-BKT-23	EDGE Extension and Flush-Mount Bracket for mounting 1U housings into 23-in racks or cabinets	1/1	
PC2-BKT-23	EDGE Extension and Flush-Mount Bracket for mounting 2U housings into 23-in racks or cabinets	1/1	

Housing Accessories (continued)			
Part Number	Product Description	Units per Delivery	
PC4-BKT-23	EDGE™ Solutions Mounting Bracket for mounting 4U housings into 23-in racks or cabinets	1/1	
EDGE-01U-FLSH-BKT	EDGE Extension and Flush-Mount Bracket for EDGE-01U	1/1	
CJP-01U-P	Pretium™ Jumper Management Panel 1U; provides jumper management in a 1.75-in rack space	1/1	
CJP-02U-P	Pretium Jumper Management Panel 2U; provides jumper management in a 3.5-in rack space	1/1	
EDGE-CCHBKT-1	Bracket to hold one EDGE solutions module that fits into Plug & Play™ housings	1/1	
EDGE-CCHBKT-2	Bracket to hold two EDGE solutions module that fits into Plug & Play housings	1/1	
EDGE-EMOD-STRN	EDGE Solutions Strain-Relief Bracket, EMOD, 1U	1/1	

MTP® PRO Accessories			
Part Number	Product Description	Units per Delivery	
MTPPRO-TOOL	Field tool to perform pinning and polarity changes of MTP® PRO connectors	1/1	
MTPPRO-PEX-MME-NO PINS	MTP PRO Pin Exchanger Kit, SM MTP Elite, empty (without pins)	1/1	
MTPPRO-PEX-MME-PINS	MTP PRO Pin Exchanger Kit, MM MTP Elite, loaded (with pins)	1/1	
MTPPRO-PEX-SME-NO PINS	MTP PRO Pin Exchanger Kit, SM MTP Elite, empty (without pins)	1/1	
MTPPRO-PEX-SME-PINS	MTP PRO Pin Exchanger Kit, SM MTP Elite, loaded (with pins)	1/1	

CORNING

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