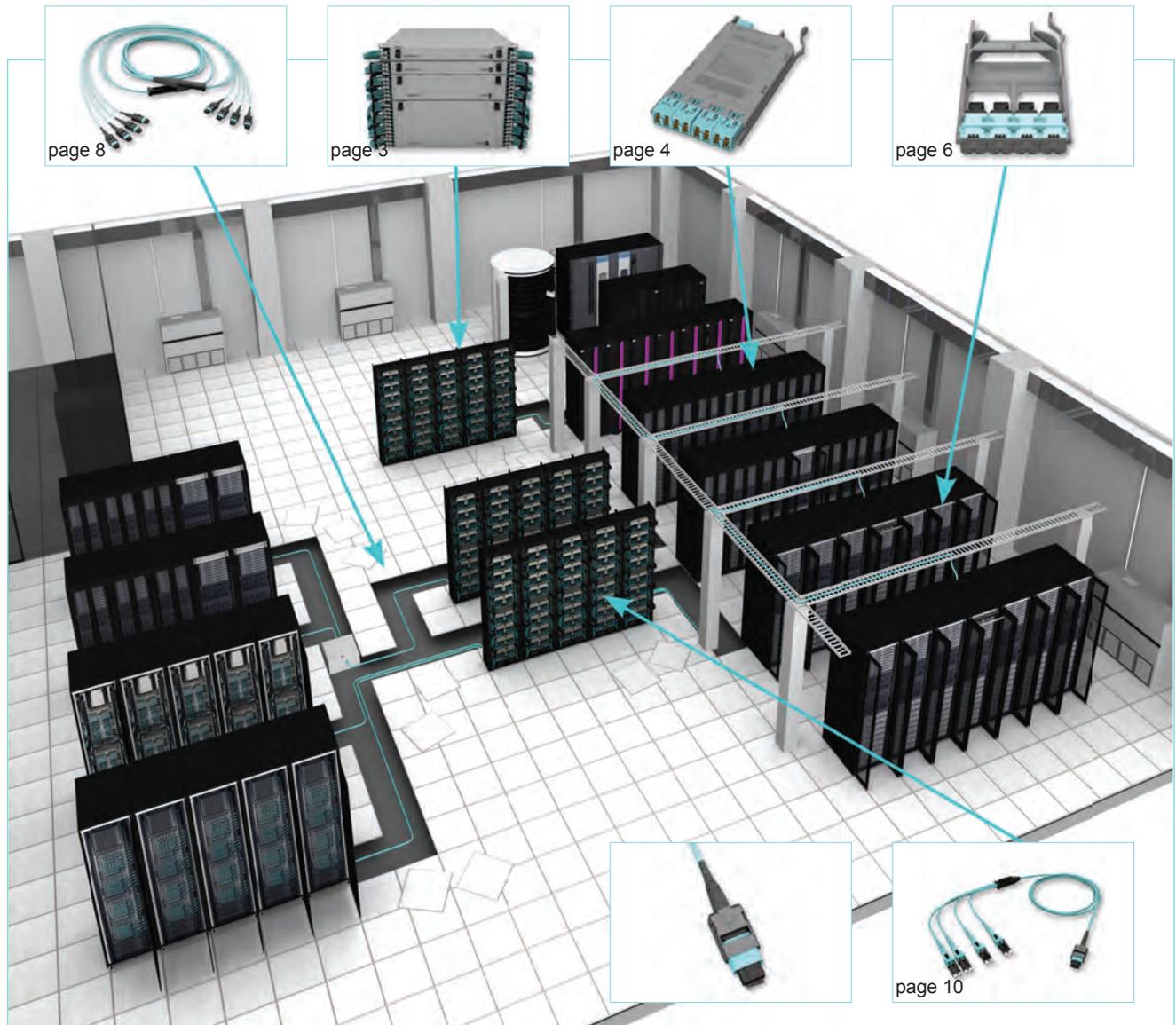


EDGE8™ Solutions for Enterprise Data Centers and Storage Area Networks

Corning's EDGE8™ solutions are built upon a Base-8 architecture for simplified migration beyond 10G in the data center. This tip-to-tip solution consists of housings, modules, panels, trunks, harnesses, and jumpers which provide the customer with 100 percent fiber utilization and improved link performance in parallel optic deployments.



Features and Benefits

Smaller footprint design with Base-8 components in housings

Greater flexibility with six open slots per tray, for easy deployment of EDGE8™ modules and panels

Key identifiers

EDGE8 printed on housings, modules, and MTP® sliders for easy identification as a Base-8 component

Ultra-low-loss performance

Lower performance specs allow for improved link performance in parallel optic deployments

Pinned MTP connectors on trunks

Allows for single pinless jumper deployment in parallel optics electronics deployments



EDGE8 Solutions
| Photo REN705

Specifications

Connected Mated Pair		
	Insertion Loss, Max.	
	OM3/OM4	OS2
LC Reverse Polarity Uniboot	0.10 dB	0.25 dB
MTP® Compatible Connector	0.25 dB	0.35 dB
Modules/Harnesses - Ultra-Low-Loss		
	Insertion Loss, Max.	
	OM3/OM4	OS2
Component Value	0.35 dB	0.6 dB

EDGE8™ Solutions

CORNING

EDGE8™ Housing

EDGE8™ solutions are high-density preterminated optical cabling solutions with optimized design for Base-8 fiber applications offering industry-leading connector density. With sufficient connector finger access, there is no need for additional tools enabling faster moves, adds, and changes (MACs).



EDGE8-01U
| Photo REN457



EDGE8-01U-SP
| Photo REN446



EDGE8-02U
| Photo REN463



EDGE8-04U
| Photo REN466

Part Number	Height Unit	Dimensions (W x D x H)	Packaging Dimensions (W x D x H)	Shipping Weight	Number of Panels per Housing
EDGE8-01U	1U	432 mm x 561 mm x 44 mm (17 in x 22.1 in x 1.75 in)	584 mm x 673 mm x 191 mm (23 in x 26.5 in x 7.5 in)	6.8 kg (15 lb)	12
EDGE8-01U-SP	1U	432 mm x 561 mm x 44 mm (17.0 in x 22.1 in x 1.75 in)	581 mm x 667 mm x 197 mm (22.9 in x 26.25 in x 7.75 in)	8.2 kg (18 lb)	18
EDGE8-02U	2U	432 mm x 561 mm x 88 mm (17.0 in x 22.1 in x 3.5 in)	578 mm x 667 mm x 241 mm (22.75 in x 26.25 in x 9.5 in)	10.4 kg (23 lb)	36
EDGE8-04U	4U	432 mm x 561 mm x 177 mm (17.0 in x 22.1 in x 7.0 in)	578 mm x 667 mm x 327 mm (22.75 in x 26.25 in x 12.9 in)	16.5 kg (36 lb)	72

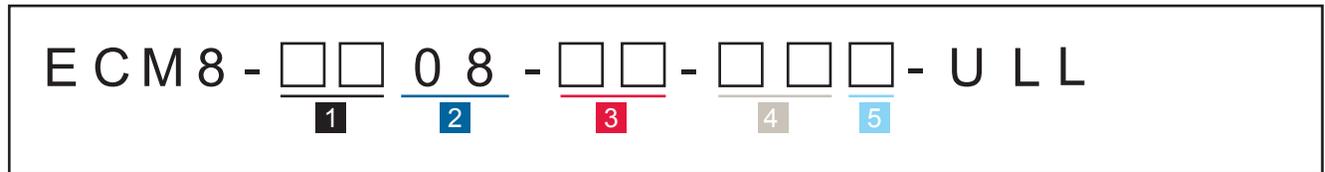
Note: When rear strain-relief plate is removed from part number EDGE8-01U-SP, product depth reduces to 14.9 in.

EDGE8™ MTP® to LC Duplex Module

EDGE8™ modules provide an interface between 8-fiber MTP® connectors and LC duplex connectors.



Ordering Information



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

2 Defines fiber count.
08 = 8 fibers

3 Select adapters on module front.
05 = Shuttered LC Duplex MM
04 = Shuttered LC Duplex SM

4 Select MTP® adapter on module back.
E6 = MTP 8F (non-pinned) MM
E8 = MTP 8F (non-pinned) SM

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

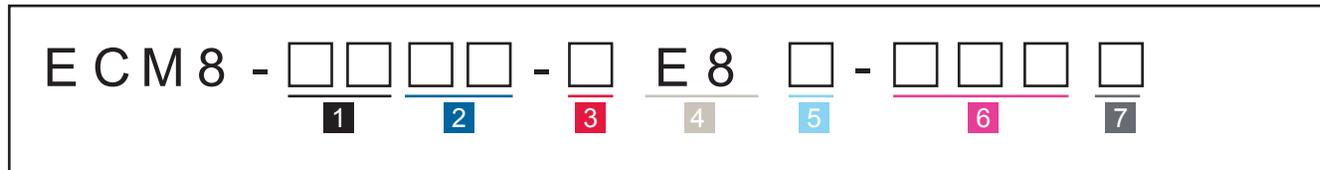
EDGE8™ Port Breakout Module

EDGE8™ MTP® port breakout modules enable conversion from a single 4-channel parallel optic port (such as 40GSR4 (QSFP)), into a patch panel representation with four LC duplex ports..



EDGE8 Port Breakout Module
| Photo REN390

Ordering Information



1 Select adapters on module front.
05 = Shuttered LC Duplex MM
04 = Shuttered LC Duplex SM

2 Select MTP® adapter on module back.
E5 = MTP 8F (pinned) MM
E6 = MTP 8F (non-pinned) MM
E7 = MTP 8F (pinned) SM
E8 = MTP 8F (non-pinned) SM

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

4 Defines cable type.
E8 = Plenum, interconnect

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

6 Select cable length.
003-075 feet
(1 ft increments measured from furcation plug to furcation plug)
001-025 meters
(1 m increments measured from furcation plug to furcation plug)

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

EDGE8™ Adapter Panel

EDGE8™ MTP® adapter panels provide a simple interface to mate MTP connectors. This occurs when connecting MTP trunks to MTP extended trunks, MTP trunks to trunk harnesses, and in 40G multimode networks, connecting MTP trunks to 40G jumpers.



Part Number	Fiber Count	Fiber Category
EDGE8-CP08-V1	8	Bend-improved SM (OS2)
EDGE8-CP16-V1	16	Bend-improved SM (OS2)
EDGE8-CP32-V1	32	Bend-improved SM (OS2)
EDGE8-CP08-V3	8	50 µm MM (OM4)
EDGE8-CP16-V3	16	50 µm MM (OM4)
EDGE8-CP32-V3	32	50 µm MM (OM4)

Trunk Specifications

Mechanical Characteristics				
Fiber Count	Nominal Outer Diameter	Pulling Grip Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation
8	5.0 mm (± 0.3 mm)	41 mm (1.6 in)	75 mm (2.95 in)	25 mm (0.98 in)
16 - 24	7.0 mm (± 0.3 mm)	41 mm (1.6 in)	105 mm (4.13 in)	35 mm (1.38 in)
32 - 48	8.1 mm (± 0.3 mm)	56 mm (2.2 in)	121.5 mm (4.78 in)	40.5 mm (1.59 in)
72 - 96	10.2 mm (± 0.3 mm)	56 mm (2.2 in)	153 mm (6.02 in)	51 mm (2.01 in)
144	12.5 mm (± 0.3 mm)	56 mm (2.2 in)	187.5 mm (7.38 in)	62.5 mm (2.46 in)

Trunk Shipping Information

Reel Capacities						
Packaging Method	Box E	Reel 1	Reel 2	Reel 3	Reel W	Reel Z
Packaging Material	Corrugated box	Plastic reel	Plastic reel	Plastic reel	Plywood reel	Plywood reel
Reel Diameter (in)		23.5	23.5	23.5	36	41
Reel Width (in)		5	12	18	32	32
Box Dimensions (in)	21x21x3.3	26x25.5x7	26x25.5x14	26x25.5x20	-	-
Fiber Count	Capacities (ft)					
8	5-75	76-1178	1179-2500	-	-	-
16	5-75	76-1178	1179-2500	-	-	-
24	5-75	76-601	602-1442	1443-2163	2164-2500	-
32	5-75	76-557	558-1336	1337-2004	2005-2500	-
48	5-75	76-493	494-1183	1184-1775	1776-2500	-
72	5-75	76-323	324-776	777-1163	1164-2106	2107-2500
96	5-75	76-252	253-604	605-906	907-1639	1640-2500
144	5-75	76-228	229-547	548-821	822-1486	1487-2500

Note: Trunks under 75 ft are packaged in a cardboard box and not on a reel.

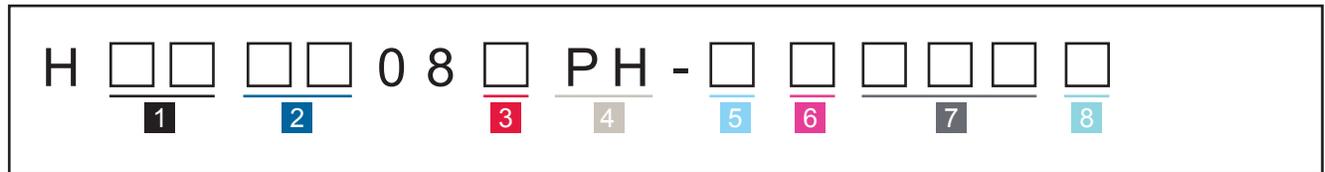
EDGE8™ QSFP to SFP+ Staggered Harness

The EDGE8™ QSFP to SFP+ harness provides breakout from 8-fiber pinned MTP® connectors and LC duplex connectors.



EDGE8 Staggered Harness
| Photo REN476

Ordering Information



1 Select MTP connector.
E5 = MTP 8F (pinned) MM
E6 = MTP 8F (non-pinned) MM
E7 = MTP 8F (pinned) SM
E8 = MTP 8F (non-pinned) SM

2 Select the breakout connector type.
79 = LC Uniboot, low-loss MM
78 = LC Uniboot SM

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

4 Defines cable type.
PH = Plenum, harness

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

Note: For harness stagger type, reference AEN157.

6 Select harness polarity.
A = Type-A polarity
B = Type-B polarity
Note: For harness polarity, reference AEN156.

7 Select harness length.
003-020 feet
(1 ft increments measured from plug to MTP, does not include LC stagger)
001-006 meters
(1 m increments measured from plug to MTP, does not include LC stagger)

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

EDGE8™ QSFP to SFP+ Non-Staggered Harness

The EDGE8™ QSFP to SFP+ harness provides breakout from 8-fiber pinned MTP® connectors and LC duplex connectors.



EDGE8 Non-staggered Harness
| Photo REN475

Ordering Information

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

- 1** Select MTP connector.
 E5 = MTP 8F (pinned) MM
 E6 = MTP 8F (non-pinned) MM
 E7 = MTP 8F (pinned) SM
 E8 = MTP 8F (non-pinned) SM

- 2** Select the breakout connector type.
 79 = LC Uniboot, low-loss MM
 78 = LC Uniboot SM

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

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

- 5** Select leg length in inches (leg OD is 2.0 mm).
 J = 12 in (+3/-0 in)
 K = 24 in (+3/-0 in)
 L = 36 in (+3/-0 in)
 M = 48 in (+3/-0 in)
 N = 60 in (+3/-0 in)
 P = 72 in (+3/-0 in)
 R = 98 in (+3/-0 in)
Furcation legs are color coded by fiber type.

- 6** Select harness polarity.
 A = Type-A polarity
 B = Type-B polarity
Note: For harness polarity, reference AEN156.

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

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

Reverse Polarity Uniboot Duplex Jumpers

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



EDGE Reverse Polarity Uniboot Duplex Jumpers | Photo LAN2223

Ordering Information

□ □	□ □	0 2	□	D	□	2 0	□ □ □	□
1	2		3		4		5	6

1 Select connector one type.

Multimode

- 05 = Multimode (OM3/OM4) LC duplex
- 57 = Multimode (OM3/OM4) SC duplex
- 79 = Multimode (OM3/OM4) LC reverse polarity uniboot

Single-mode

- 04 = Single-mode (OS2) LC duplex
- 72 = Single-mode (OS2) SC duplex
- 78 = Single-mode (OS2) LC UPC
- 80 = Single-mode (OS2) LC APC reverse polarity uniboot

2 Select connector two type.

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

3 Select fiber type.

- T = 50 um multimode (OM3)
- Q = 50 um multimode (OM4)
- G = Bend-improved single-mode (OS2)

4 Select flame rating.

- 1 = Riser
- 8 = Plenum

5 Select length.

- 001-999

6 Select unit of measure.

- M = Meters
- F = Feet

Reverse Polarity LC Duplex Clips

All EDGE™ reverse polarity uniboot LC duplex connectors come with a clip that is removable. We offer a total of 10 colors to allow for easy link identification or fabric segmentation.



EDGE Reverse Polarity Uniboot LC Duplex Clips | Photo LAN2254

Ordering Information

TRIGGER - B P - U <input type="checkbox"/>
1

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

Note: Must order in multiples of 100.

EDGE8™ MTP® Jumpers

EDGE8™ 8-fiber MTP® jumpers allow for seamless migration to higher data rates when used in conjunction with our EDGE8 pinned trunks.



EDGE8 MTP Jumper
| Photo REN395

Ordering Information



1 Select MTP connector.
 E5 = MTP 8F (pinned) MM
 E6 = MTP 8F (non-pinned) MM
 E7 = MTP 8F (pinned) SM
 E8 = MTP 8F (non-pinned) SM

2 Select MTP connector.
 E5 = MTP 8F (pinned) MM
 E6 = MTP 8F (non-pinned) MM
 E7 = MTP 8F (pinned) SM
 E8 = MTP 8F (non-pinned) SM

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

4 Defines cable type.
 E8 = Plenum, interconnect

5 Defines jumper.
 N = Jumper, no furcation

6 Select harness polarity.
 A = Type-A polarity
 B = Type-B polarity
Note: For harness polarity, reference AEN156.

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

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



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	



Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/trademarks.

All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified.

© 2015 Corning Optical Communications. All rights reserved.