EDGE8™ Solutions

EDGE8™ Solutions for Enterprise Data Centres and Storage Area Networks

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

EDGE8 Solutions
| Photo MM191

EDGE8™ Solutions

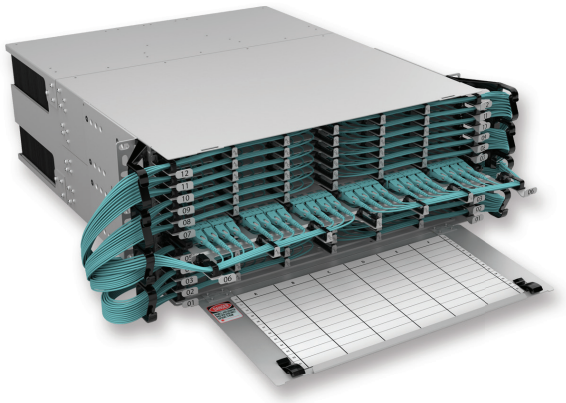
Features and Benefits

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 patch cable deployment in parallel optics electronics deployments



EDGE8 Solutions
| Photo REN705

Specifications

Connected Mated Pairs		
	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

EDGE8™ Housing

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

EDGE8-01U
| Photo REN457

EDGE8-01U-SP
| Photo REN446

EDGE8-02U
| Photo REN463

EDGE8-04U
| Photo REN466

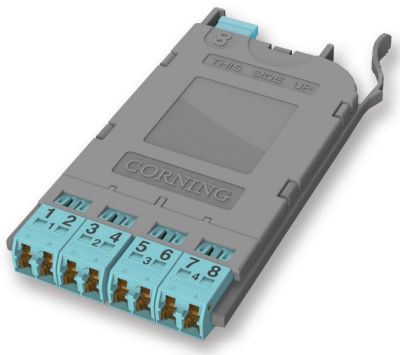
Part Number	Height unit	Dimensions (W x D x H)	Packaging Dimensions (W x D x H)	Shipping Weight	Number of Panels per Housing
EDGE8-01U	1U	432 mm x 561 mm x 44 mm	584 mm x 673 mm x 191 mm	6.8 kg	12
EDGE8-01U-SP	1U	432 mm x 561 mm x 44 mm	581 mm x 667 mm x 197 mm	8.2 kg	18
EDGE8-02U	2U	432 mm x 561 mm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

Note: When rear strain-relief plate is removed from part number EDGE8-01U-SP, product depth reduces to 37.85mm.

EDGE8™ Solutions

EDGE8™ MTP® to LC Duplex Module

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



EDGE8 MTP to LC Duplex Module | Photo REN389

Ordering Information

E C M 8 - □□ 0 8 - □□ - □□□ - U L L

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 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

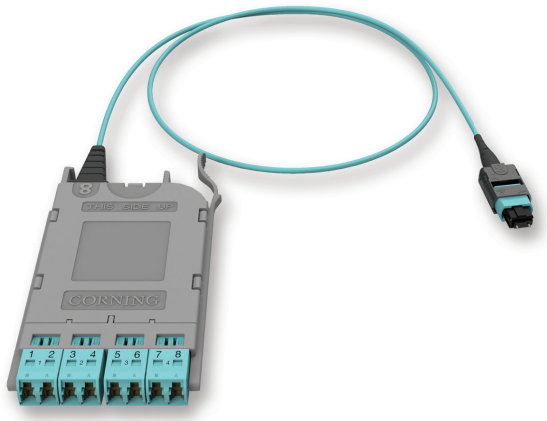
5 Select fibre type.
Q = 50 µm multimode (OM4)
G = Single-mode Ultra (OS2)

CORNING

EDGE8™ Solutions

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

E C M 8 - □□ □□ - □ E Z □ - □□□.□ M
1 2 3 4 5 6 7

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

4 Defines cable type.
EZ = LSZH, interconnect

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

6 Select cable length.
001.0-075.5
Note: .5 m increments measured from furcation plug to furcation plug.

7 Defines unit of measure.
M = Metres

EDGE8™ Solutions

EDGE8™ Adapter Panel

EDGE8™ adapter panels are pass-through patch panels with shuttered MTP® adapters on the front. This enables various options like extension with extender trunks, by using MTP patch cable for end-to-end links in high-speed networks or within a cross-connect used in MDA. Harnesses provide the best implementation of I/O cards in data centre hotspots be reduction of cable congestion in racks.

EDGE8 Adapter Panel
| Photo REN485

Part Number	Fibre count	Fibre 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				
Fibre count	Nominal outer diameter	Pulling Grip Outer Diameter	Min. bend radius installation	Min. bend radius operation
8	5.5 mm (± 0.3 mm)	41 mm	82.5 mm	27.5 mm
16 - 24	7.7 mm (± 0.3 mm)	41 mm	115.5 mm	38.5 mm
32	8.0 mm (± 0.3 mm)	56 mm	120 mm	40 mm
48	8.5 mm (± 0.3 mm)	56 mm	127.5 mm	42.5 mm
72	10.5 mm (± 0.3 mm)	56 mm	157.5 mm	52.5 mm
96	11.9 mm (± 0.3 mm)	56 mm	178.5 mm	59.5 mm

Trunk Shipping Information

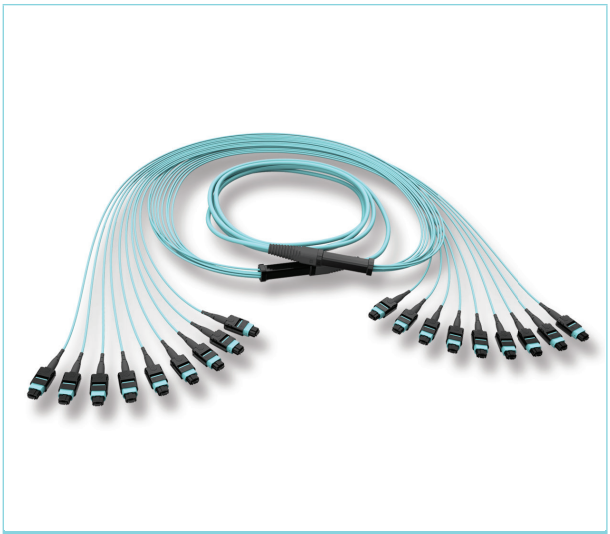
Reel Capacities						
Packaging Method						
	Corrugated box	Plastic reel	Plastic reel	Plastic reel	Plywood reel	Plywood reel
Reel Diameter (in)		23.5	23.5	23.5	36	41
Reel Width (in)		5	12	18	32	32
Box Dimensions (in)	21x21x3.3	26x25.5x7	26x25.5x14	26x25.5x20	-	-
Fibre count	Capacities (ft)					
8	5-75	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 feet are packaged in a cardboard box and not on a reel.

EDGE8™ Solutions

EDGE8™ MTP® Trunks

The EDGE8™ trunks utilise 8-fibre push/pull optical connectors that are pinned on both ends of the cable. The trunks are shipped with strain-relief clips that allow for tool-less installation in EDGE8 housings. The grip can be pulled using up to 400N of pulling tension while providing complete protection for the connectors. All trunks greater than 23 meters are packaged on a plastic corrugated reel for easy installation.



EDGE8 72F MTP Trunk
| Photo REN502

Ordering Information

□	□□	□□	□□	□	LZ	D	D	□	□□□.□	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 8F (pinned) MM
E7 = MTP 8F (pinned) SM

3 Select MTP connector (end two on inside of reel)
E5 = MTP 8F (pinned) MM
E7 = MTP 8F (pinned) SM

4 Select standard fibre count.
08 = 8 fibre 48 = 48 fibre
16 = 16 fibre 72 = 72 fibre
24 = 24 fibre 96 = 96 fibre
32 = 32 fibre

5 Select fibre type.
T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
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 (+76/-0 mm)
Furcation legs are colour coded by fibre type.

8 Defines leg length. (end two on inside of reel)
D = 840 mm (+76/-0 mm)
Furcation legs are colour coded by fibre type.

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

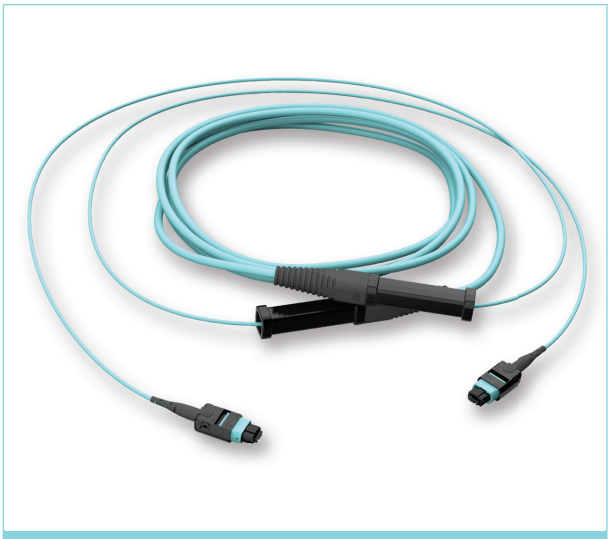
10 Select cable length.
002.0-999.5
Note: 0.5 m increments measured from furcation plug to furcation plug.

11 Defines unit of measure.
M = Metres

EDGE8™ Solutions

EDGE8™ MTP® Extender Trunks

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



EDGE8 MTP Extender Trunk
| Photo REN506

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 8F (pinned) MM
E7 = MTP 8F (pinned) SM

3 Select MTP connector (end two on inside of reel).
E6 = MTP 8F (non-pinned) MM
E8 = MTP 8F (non-pinned) SM

4 Select standard fibre count.

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

5 Select fibre type.
T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
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 (+76/-0 mm)
Mates with module/harness.

8 Defines leg length (end two on inside of reel).
C = 1500 mm (+76/-0 mm)
Mates with trunk (long leg reaches from rear to the front side of housing).

9 Defines trunk type.
X = Universal extender

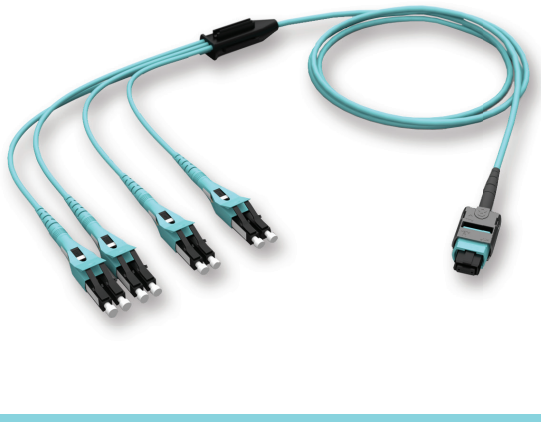
10 Select cable length.
002.0-999.5
(.5 m increments measured from furcation plug to furcation plug.)

11 Defines unit of measure.
M = Metres

EDGE8™ Solutions

EDGE8™ QSFP to SFP+ Staggered Harness

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



EDGE8 Staggered Harness
| Photo REN476

Ordering Information

H □□ □□ 08□ LZ-□ □ □□□.□M
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 fibre type.
Q = 50 µm multimode (OM4)
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
5 = Type 5 Stagger
Note: For harness stagger type, reference AEN157.

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

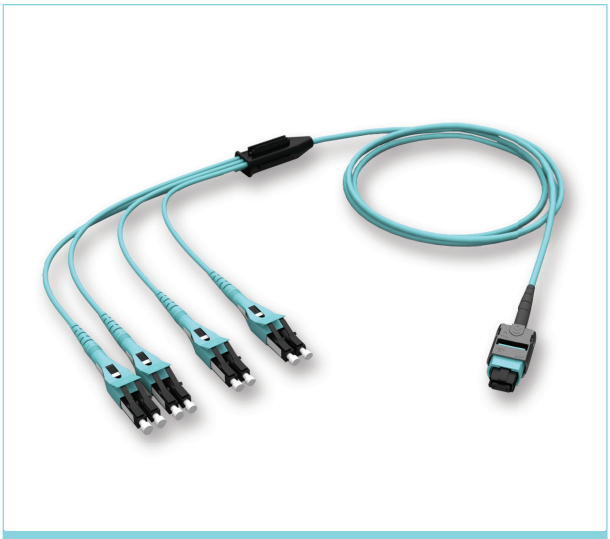
7 Select harness length.
001.0-006.5
Note: Measured in 1 ft increments from plug to MTP, does not include LC stagger.

8 Defines unit of measure.
M = Metres

EDGE8™ Solutions

EDGE8™ QSFP to SFP+ Non-Staggered Harness

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



EDGE8 Non-staggered Harness
| Photo REN475

Ordering Information

H □□ □□ 08 □ LZ - □ □ □□□.□ M
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 fibre type.
Q = 50 µm multimode (OM4)
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 (+76/-0 mm)
K = 600 mm (+76/-0 mm)
L = 900 mm (+76/-0 mm)
M = 1200 mm (+76/-0 mm)
N = 1500 mm (+76/-0 mm)
P = 1800 mm (+76/-0 mm)
R = 2500 mm (+76/-0 mm)
Furcation legs are coluor-coded by fibre

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

7 Select harness length.
001.0-060.5
Note: .5 m increments measured from plug to MTP, does not include LC stagger.

8 Defines unit of measure.
M = Metres

EDGE8™ Solutions

EDGE8™ MTP® Patch Cables

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

EDGE8 MTP Patch Cable
| Photo REN395

Ordering Information

J □□ □□ 08 □ EZ - N □ □□□.□ M
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 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 fibre type.
T = 50 µm multimode (OM3)
Q = 50 µm multimode (OM4)
G = Single-mode Ultra (OS2)

4 Defines cable type.
EZ = LSZH, interconnect

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

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

7 Select harness length.
001.0-060.5
Measured in .5 m increments.

8 Defines unit of measure.
M = Metres

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	

RoHS COMPLIANT

Corning Optical Communications GmbH & Co. KG · Leipziger Strasse 121 · 10117 Berlin, GERMANY
00 800 2676 4641 · FAX: +49 30 5303 2335 · www.corning.com/opcomm/emea
A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/emea/trademarks. Corning Optical Communications is ISO 9001 and ISO 14001 certified. © 2015 Corning Optical Communications. All rights reserved.