EDGE8® EXACT Solutions

EDGE8® EXACT Solution Introduction

Every component adds latency to the network link. Every component matters.
Optical fibres and network components in the data centre cabling infrastructure contribute to latency, the time it takes for information to get to its destination and back again. They increase or decrease the total length of a network link. That difference in metres will be reflected into nanoseconds of latency across the entire network — possibly making a big difference in gaining or losing business for end users.

In the financial and high-frequency trading markets, the European Securities and Markets Authorities (ESMA) released the Markets in Financial Instruments Directive (MIFID II) in an effort to improve the functioning of the financial markets, making them more efficient, resilient, but also transparent. The EU regulation was put in place to create fair and non-discriminatory services, providing equivalent conditions for all customers subscribed to a trading application or venue.

According to the Commission Delegated Regulation (EU) 2017/573, MIFID II requires all traders and trading applications doing business in Europe to offer all users which have subscribed to the same colocation services access to their network under equivalent conditions including space, power, cooling, cable length, access to data, market connectivity, technology, technical support and messaging types. They are also obliged to publish the different types of latency access and take steps to monitor all connections and latency measurements, to ensure the nondiscriminatory treatment.

Passive components with tight physical tolerances and optical length control support traders to offer equivalent cable lengths and ultimately enable them to provide uniform latency to all of their customers.

The EXACT solution is an extension of our multiple award-winning EDGE™ and EDGE8 solutions portfolio, providing a reduced excess length cabling infrastructure where optical path system measurement is critical for the end-user service offering. Optical length solutions are offered in single-mode and multimode fibre, in various fibre counts, terminated with MPO/MTP® and LC Duplex Uniboot connectors on trunks, harnesses, and modules. All products are manufactured to minimal physical tolerances and tested according to high-resolution photon-pulsing optics.

All EDGE8 EXACT products are manufactured with Corning® CleanAdvantage™ technology, a new cleaning process implemented at the factory that uses residue-free cleaning fluids. Corning's proprietary nozzle design enables a focused and directed spray to the end face, virtually cleaning the entire ferrule. All CleanAdvantage products are also shipped with optimised dust caps engineered to maintain the end-face cleanliness until the first mating connection. CleanAdvantage eliminates the need for scoping and cleaning before the initial field connection, reducing installation time and cost.

Feature	Benefit	Value
EXACT solutions reduce the fibre cabling tolerances up to 80% and add optical length control	EU trading venues can provide all users subscribed to the same colocation services access to their network under equivalent conditions regarding cable length	Fully compliant with MIFID II regulations for financial markets in the EU
	Reduction in the cabling infrastructure length variation	Supports the latency objectives and impact across the data center for all network operators
Bend-improved Corning® SMF-28® Ultra single-mode and Corning® ClearCurve® multimode fibres	Allows smaller-form-factor components and tighter cable bends for slack storage and routing and high-density applications	Improves airflow and reduces risk of network downtime due to pinched or bent cables and assemblies while fully compatible to standard SM and MM fibres
Ultra-low-loss EDGE8® connectivity	Improved performance specs allow for system design flexibility	Enables more mated pairs in the network link and/or longer link distances
EXACT components are fully compatible and carry the same footprint as standard EDGE8® solutions	EDGE8® EXACT solutions can be installed in the same data centre, same rack, same housing and be part of the overall data centre structured cabling solution	The modular system approach provides a secure investment and allows a mix of technologies as well as the integration of future technologies
EXACT solutions support connectivity with duplex and parallel architecture	Enables system migration from 10G to 100G and also allows to support of 800G applications	Allows reuse of existing network components and backbone cabling
CleanAdvantage technology and optimised dust caps	Eliminates the need for scoping and cleaning prior to initial field connection while providing pristine connector end-faces upon first install	Ready-to-use products reduce installation time of up to 17% and cleaning consumables on site of up to 95%

Contents

Trunk Specifications

Optical Performance Multimode				
Trunk	Reflectance Connector A	Reflectance Connector B	Maximum Insertion Loss Connector A	Maximum Insertion Loss Connector B
MTP®-MTP	≤ -20 dB	≤ -20 dB	≤ 0.25 dB	≤ 0.25 dB
MTP-LC Duplex Uniboot	≤ -20 dB	≤ -20 dB	≤ 0.25 dB	≤ 0.10 dB

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

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

EDGE8® MTP® Trunks

EDGE8® MTP® trunks provide the backbone of the EDGE8 solution. With 8-fibre pinned MTP PRO connectors on both ends as a standard configuration, these trunks are designed to interface with the EDGE8 universal modules or adapter panels for parallel optic applications. All MTP trunks are manufactured with Corning® CleanAdvantage™ technology and shipped with strain-relief clips to allow easy tool-less installation. MTP trunk pulling grips can be pulled using up to 400N of pulling tension while providing complete protection for the connectors.
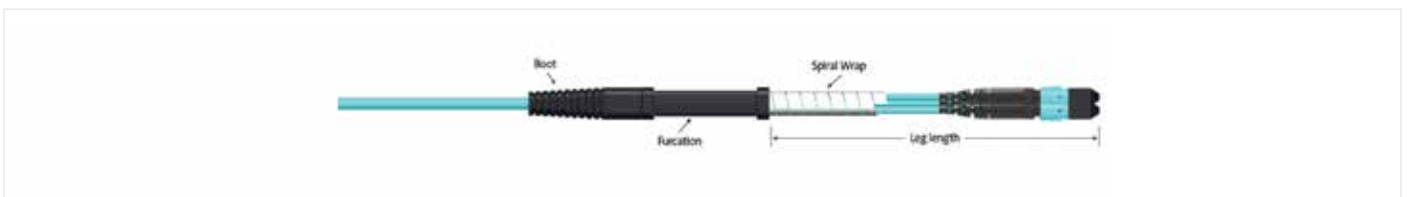

EDGE8 8-Fibre MTP Trunks | Photos REN7793 and REN7794

Ordering Information


```
□  □□  □□  □□  □  LZ  □  □  □  □□□  M - EX
1   2    3    4   5   6  7  8  9   10    11
```
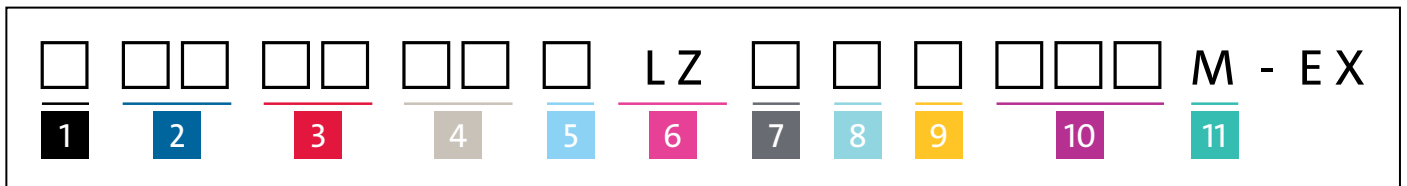
1   Select grip.
G = Grip on first end only
D = Grip on both ends
Z = No grip

2   Select MTP connector.
(end one on outside of reel)
E5 = MTP 8 F (pinned) multimode
E6 = MTP 8 F (non-pinned) multimode
E7 = MTP 8 F (pinned) single-mode
E8 = MTP 8 F (non-pinned) single-mode
00 = Pigtail*

3   Select MTP connector.
(end two on inside of reel)
E5 = MTP 8 F (pinned) multimode
E6 = MTP 8 F (non-pinned) multimode
E7 = MTP 8 F (pinned) single-mode
E8 = MTP 8 F (non-pinned) single-mode
00 = Pigtail*

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

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

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

6   Defines cable type.
LZ = LSZH™, non-armoured

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

Furcation legs are colour-coded by fibre type.

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

Furcation legs are colour-coded by fibre type.

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

10   Select cable length.
002-300 metres

(1 m increments measured from furcation to furcation plug)

Longer cable lengths available upon request.

11   Defines unit of measure.
M = Metres

EDGE EXACT Solutions Trunk Cable | Drawing ZA-6667

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

# EDGE8® MTP® Extender Trunks

EDGE8® MTP® extender trunks provide additional distance for the backbone of the EDGE8 solution. With a non-pinned MTP PRO connector on one end, a pinned MTP connector on the other, and a TIA-568 Type-A polarity, these trunks are designed to interface with an EDGE8 solutions universal module and an EDGE8 MTP trunk. All extender trunks are manufactured with Corning® CleanAdvantage™ and shipped with strain-relief clips to allow easy tool-less installation.

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


EDGE8 8-Fibre MTP Extender Trunks | Photos REN7954 and REN7953

Ordering Information


```
☐  ☐☐  ☐☐  ☐☐  ☐  L Z  D  C  X  ☐☐☐  M - E X
1    2    3    4   5   6   7  8  9   10      11
```
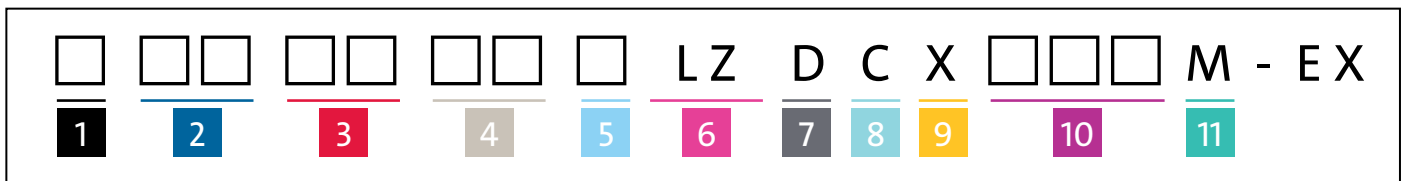
1 **Select grip.**
G = Grip on first end only
Z = No grip

2 **Select MTP connector.**
(end one on outside of reel)
E5 = MTP 8 F (pinned) multimode
E7 = MTP 8 F (pinned) single-mode

3 **Select MTP connector.**
(end two on inside of reel)
E6 = MTP 8 F (non-pinned) multimode
E8 = MTP 8 F (non-pinned) single-mode

4 **Select standard fibre count.**
08 = 8 fibre   72 = 72 fibre
16 = 16 fibre   96 = 96 fibre
24 = 24 fibre   E4 = 144 fibre
32 = 32 fibre
48 = 48 fibre

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

6 **Defines cable type.**
LZ = LSZH™, non-armoured

7 **Define leg length.**
(end two on inside of reel)
D = 840 mm

Mates with module/harness.

8 **Defines leg length.**
(end two on inside of reel)
C = 1500 mm

Mates with trunk (long leg reaches from rear to the front side of housing)

9 **Defines trunk type.**
X = Extender

10 **Select cable length.**
002-300 metres

(1 m increments measured from furcation to furcation plug)

Longer cable lengths available upon request.

11 **Defines unit of measure.**
M = Metres
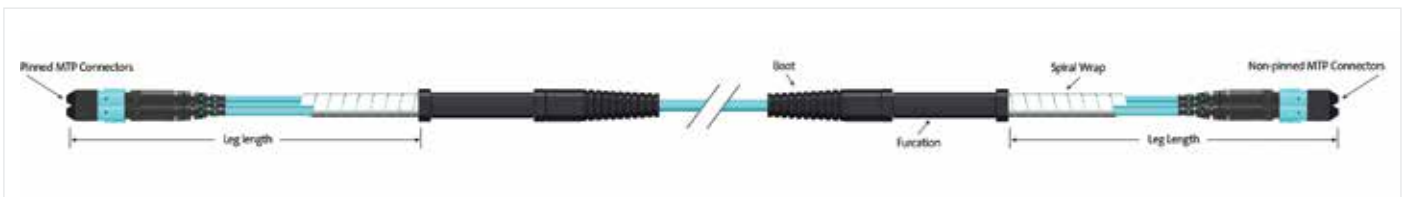
EDGE Extender Trunk Configuration | Drawing ZA-6668

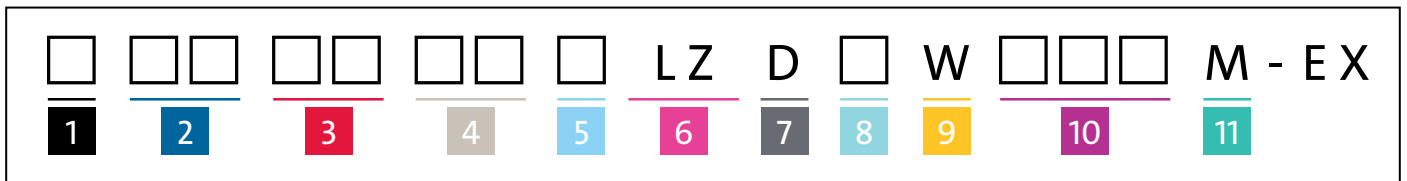*For OM4 heather violet cable jacket, please add -VI at the end of the part number.*

EDGE8® Hybrid MTP® to LC Uniboot Trunks

EDGE8® MTP® to LC Uniboot hybrid trunks combine pinned MTP PRO connectors with push-pull boot, which connect to EDGE8 modules, and LC Uniboot connectors, which connect directly to the electronics. These trunks enable additional options for cabling of data centres. All hybrid trunks are manufactured with Corning® CleanAdvantage™ technology and shipped with strain-relief clips to allow easy tool-less installation.
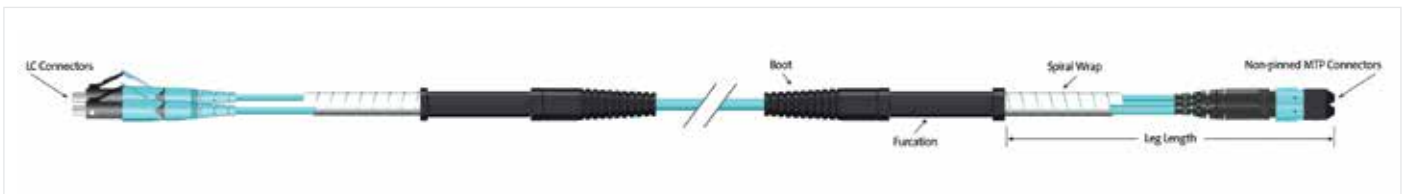
EDGE8 Hybrid MTP to LC Uniboot Trunks | Photos REN7958 and REN7957

Ordering Information

☐ ☐☐ ☐☐ ☐☐ ☐ L Z D ☐ W ☐☐☐ M - E X

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

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

2 **Select MTP connector.**
(end one on outside of reel)
E5 = MTP 8 F (pinned) multimode
E7 = MTP 8 F (pinned) single-mode

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

4 **Select fibre count.**
08 = 8 fibre	48 = 48 fibre
16 = 16 fibre	72 = 72 fibre
24 = 24 fibre	96 = 96 fibre
32 = 32 fibre	E4 = 144 fibre

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

6 **Defines cable type.**
LZ = LSZH™, non-armoured

7 **Defines leg length.**
(end one on outside of reel)
D = 840 mm

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

9 **Defines trunk type.**
W = Universal hybrid trunk

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

11 **Defines unit of measure.**
M = Metres

EDGE Solutions Hybrid Trunk Configuration | Drawing ZA-6669

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

EDGE8® Hybrid MTP® to LC Uniboot Extender Trunks

EDGE8® MTP® to LC Uniboot hybrid extender trunks combine non-pinned MTP connectors, which connect to MTP Trunks, and LC Uniboot connectors, which connect directly to the electronics. These trunks enable additional options for cabling of data centres and are most often used in a zone distribution area (ZDA). All hybrid trunks are manufactured with Corning® CleanAdvantage™ technology and shipped with strain-relief clips to allow easy tool-less installation.

EDGE8 Hybrid MTP to LC Uniboot Extender Trunks | Photo REN7797 and REN7964

Ordering Information

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

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

2 **Select MTP connector.**
(end one on outside of reel)
E6 = MTP 8 F (non-pinned) multimode
E8 = MTP 8 F (non-pinned) single-mode

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

4 **Select fibre count.**
08 = 8 fibre   48 = 48 fibre
16 = 16 fibre   72 = 72 fibre
24 = 24 fibre   96 = 96 fibre
32 = 32 fibre   E4 = 144 fibre

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

6 **Defines cable type.**
LZ = LSZH™, non-armoured

7 **Defines leg length.**
(end one on outside of reel)
C = 1500 mm

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

9 **Defines trunk type.**
Z = Universal hybrid extender

10 **Select cable length.**
002-300 metres

(1 m increments measured from furcation to furcation plug)

Longer cable lengths available upon request.

11 **Defines unit of measure.**
M = Metres

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

EDGE8® MTP® PRO Patch Cords

The EDGE8® 8-fibre MTP® patch cord allows for seamless migration to higher data rates in the data centre when used in conjunction with EDGE8 pinned trunks. This EDGE8 MTP assembly has the same connector size and cable footprint as duplex LC patch cords used today. The density, airflow, and cable management advantages of EDGE8 solutions are preserved as you migrate to higher data rates.

Assemblies are built utilizing MTP PRO connectors with push-pull boots. MTP PRO allows for a simple, one-step, colour-coded polarity change feature without removing the connector housing. The connector also provides the capability for field-friendly pinning configuration changes with safe handling of pins and easy colour identification while maintaining product integrity and allowing for an easy mating/unmating in extremely dense applications.

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

EDGE8 MTP Patch Cords | Photos REN7928 and REN7927

Ordering Information

J ▢▢ ▢▢ 0 8 ▢ E Z - N ▢ ▢▢▢ M - E X

1 2 3 4 5 6 7 8

1 Select MTP® PRO connector.
E5 = MTP 8 F (pinned) multimode
E6 = MTP 8 F (non-pinned) multimode
E7 = MTP 8 F (pinned) single-mode
E8 = MTP 8 F (non-pinned) single-mode

2 Select MTP PRO connector.
E5 = MTP 8 F (pinned) multimode
E6 = MTP 8 F (non-pinned) multimode
E7 = MTP 8 F (pinned) single-mode
E8 = MTP 8 F (non-pinned) single-mode

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

4 Defines cable type.
EZ = LSZH™, interconnect

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

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

For patch cord polarity, reference AEN156.

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

8 Defines unit of measure.
M = Metres

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

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

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

EDGE8® Harnesses

One of the critical challenges facing data centre owners, operators, and maintenance personnel in high-density (HD) computing areas is providing high-port concentration deployments to support the latest generation of high-speed switches without losing them under a mass of patch cords. All EDGE8® harnesses are manufactured with Corning® CleanAdvantage™ technology and an optimised dust cap, eliminating the need for scoping and cleaning prior to initial field connection.

An EDGE8 harness is an ultra-slim 8-fibre (2.0 mm) pre-terminated cable with an MTP® PRO connector on one end and four LC duplex Uniboot connectors on the other. The majority of the harness is a single cable which breaks out into four, 2-fibre legs to enable connectivity to the switch ports which are staggered to replicate the specific switch ports to save on excess cable length. MTP PRO with push-pull boot allows for a simple one-step, colour-coded polarity change feature without removing the connector housing. The connector also provides the capability for field-friendly pinning configuration changes with safe handling of pins and easy colour identification while maintaining product integrity and allowing for an easy mating/unmating in extremely dense applications.

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

Features and Benefits

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

MTP PRO connector & push-pull boot
Allows for pinning and polarity change in the field while enabling easier mating and unmating in extremely dense applications.
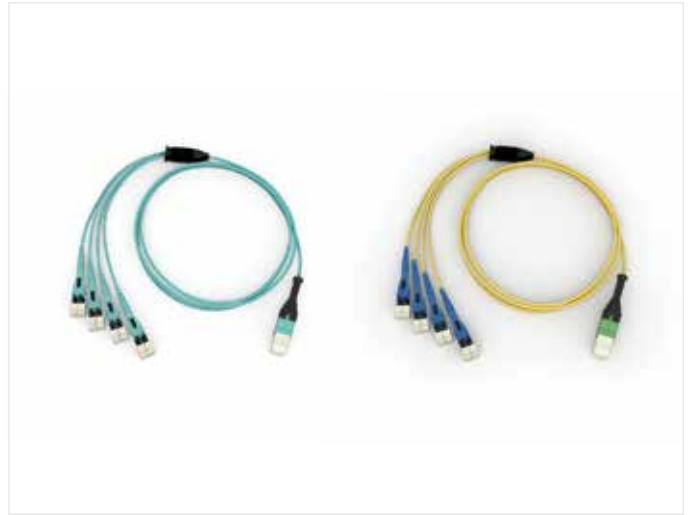
Low-loss connectivity
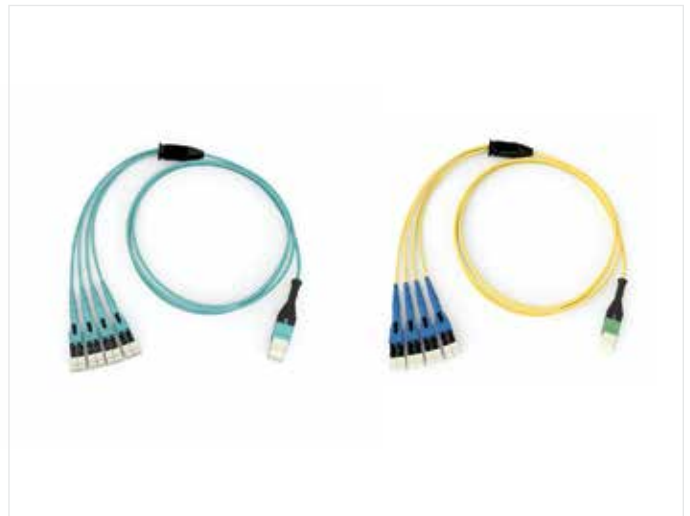Enables system design flexibility.

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

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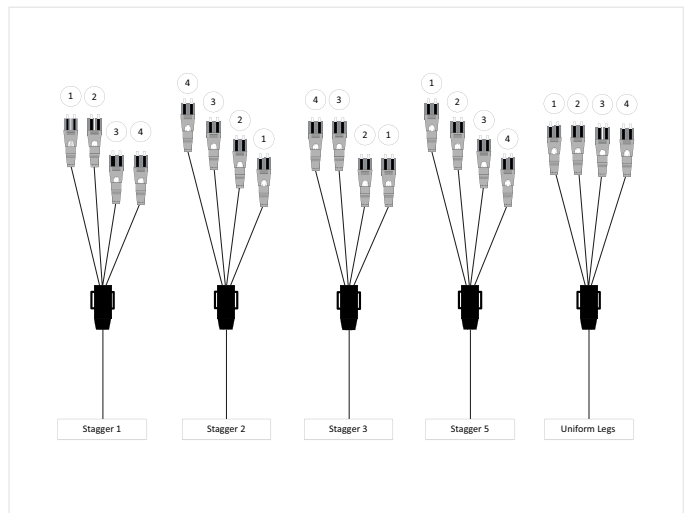Eliminates the need for scoping and cleaning prior to initial field connection.

EDGE8 Staggered Harness | Photos REN7930 and REN7959

EDGE8 Nonstaggered Harness | Photos REN7931 and REN7956

EDGE8 Staggered Harness Examples | Photo ZA4253

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

EDGE8® MTP® PRO to LC Uniboot Staggered Harnesses

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

EDGE8 Staggered Harness | Photo REN7930

Ordering Information

H ☐☐ ☐☐ 0 8 ☐ LZ - ☐ ☐ ☐☐☐ M - EX
1   **2**   **3** **4**   **5** **6**   **7**   **8**

1   **Select MTP PRO connector.**
E5 = MTP 8 F (pinned) multimode
E6 = MTP 8 F (non-pinned) multimode
E7 = MTP 8 F (pinned) single-mode
E8 = MTP 8 F (non-pinned) single-mode

2   **Select the breakout connector type.**
79 = LC Uniboot multimode
78 = LC Uniboot single-mode

LCs are universally wired.

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

4   **Defines cable type.**
LZ = LSZH™, harness

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

Uniform leg length is 150 mm. For longer lengths, please select from the following:
(leg OD is 2.0 mm)
J = 300 mm
K = 600 mm
L = 900 mm
M = 1200 mm
N = 1500 mm
P = 1800 mm
R = 2500 mm

Furcation legs are colour coded by fibre type.

For harness stagger type, reference AEN157.

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

For harness polarity, reference AEN156.

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

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

8   **Defines unit of measure.**
M = Metres

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

*An EDGE8 **harness** should have **type-A polarity** and a **non-pinned MTP PRO** connector when connecting to a **trunk**.*
*An EDGE8 **harness** should have **type-B polarity** and a **pinned MTP PRO** connector when connecting to a **module**.*
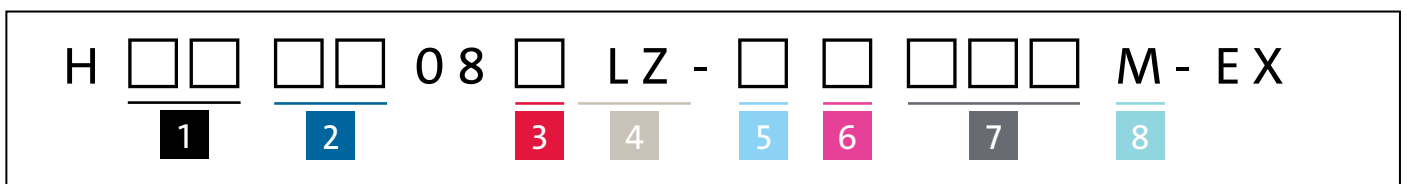
EDGE8® MTP® PRO to LC Uniboot Nonstaggered Harnesses

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

EDGE8 Nonstaggered Harness | Photo REN7931

Ordering Information

H ☐☐ ☐☐ 0 8 ☐ L Z - ☐ ☐ ☐☐☐ M - E X

1 **2** **3** **4** **5** **6** **7** **8**

1 **Select MTP PRO connector.**
E5 = MTP 8 F (pinned) multimode
E6 = MTP 8 F (non-pinned) multimode
E7 = MTP 8 F (pinned) single-mode
E8 = MTP 8 F (non-pinned) single-mode

2 **Select the breakout connector type.**
79 = LC Uniboot multimode
78 = LC Uniboot single-mode

LCs are universally wired.

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

4 **Defines cable type.**
LZ = LSZH™, harness

5 **Select leg length in mm.**
(leg OD is 2.0 mm).
J = 300 mm
K = 600 mm
L = 900 mm
M = 1200 mm
N = 1500 mm
P = 1800 mm
R = 2500 mm

Furcation legs are colour-coded by fibre type.

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

For harness polarity, reference AEN156.

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

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

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

8 **Defines unit of measure.**
M = Metres

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

*An EDGE8 **harness** should have **type-A polarity** and a **non-pinned MTP PRO** connector when connecting to a **trunk.***
*An EDGE8 **harness** should have **type-B polarity** and a **pinned MTP PRO** connector when connecting to a **module.***

EDGE8® Modules

EDGE8® modules provide the interface between the MTP® connector on the trunk and the LC duplex patch cords that connect directly into the electronics or as a cross-connect in the main distribution area (MDA). LC duplex adapters on EDGE8 modules feature hinged visual-fault-locator (VFL) compatible shutters that move up and out of the way when the connector is inserted. Specially designed indents in the shutters ensure that the end faces of the connectors are never touched. These shutters replace the standard dust caps that are typically never replaced after initial removal, exposing the interior end faces to dust particles and possible damage.

All EDGE8 modules can be installed from the front or the rear of any EDGE8 solutions housing using a simple release mechanism, eliminating the need for any tools. In addition, the shutters are VFL compatible to allow easy port identification while diffusing the VFL light to ensure adequate eye safety.

EDGE8 Module | Photo REN6575

Features and Benefits

VFL-compatible shuttered LC adapters
Creates one-hand operation and decreases time needed to test and troubleshoot a link.

Front- and rear-loading capability
Decreases the time to prepare and install modules into fibre housings.

High density
Modules enable 576 fibres in a 4U housing and 144 fibres in a 1U housing.

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

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

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

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

EDGE8® MTP® to LC Duplex Module

EDGE8® modules provide an interface between 8-fibre MTP® connectors and LC duplex connectors. The internal wiring of the module is based on universal polarity to ensure the correct fibre polarity throughout the entire system, independent of how many modules are implemented within the link. Ultra-low-loss connectivity enables design flexibility to permit multiple potential connections within the system (e.g., 6-module link).

These modules breakout 8-fibre MTP terminations from the rear into 4x LC duplex connectivity at the front. The VFL-compatible shuttered adapters provide reliable dust protection without the need for dust caps and allow for easy fibre identification. All EDGE8 modules are manufactured with Corning® CleanAdvantage™ technology and an optimised MTP dust cap, eliminating the need for cleaning before initial field connection.

EDGE8 MTP to LC duplex modules are easily swappable with MTP panels to accommodate changing requirements while leaving the trunk cable infrastructure in place. This also supports migration to MTP ports for parallel optics.

EDGE8 MTP to LC Duplex Module | Photos REN6575 and REN7093

Ordering Information

ECM8 - ☐☐ 08 - ☐☐ - ☐☐☐ - ULL - EX

1   **2**   **3**   **4**   **5**
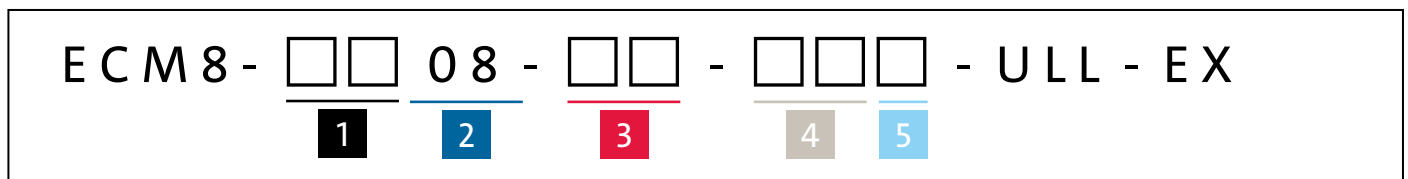
1 Select polarity.
UM = Universal polarity
RM = Straight-through

2 Defines fibre count.
08 = 8 fibres

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

4 Select MTP adapter on the back of the module.
E6 = MTP 8 F (non-pinned) multimode
E8 = MTP 8 F (non-pinned) single-mode

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

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

EDGE8® EXACT LC Duplex Uniboot Patch Cords

Reverse polarity LC Duplex Uniboot patch cords allow for the quick-and-easy conversion from a TIA-568 A-B polarity to a TIA-568 A-A polarity without exposing the fibres or needing any tools. The patch cords come with a straight-through polarity from the factory, but can be easily converted into a flipped cable with no tools. The uniboot design allows one cable to carry 2 fibres, reducing the cable bulk when routing.

Features

- Slim round 2-fibre interconnect cable with Uniboot style duplex connectors for improved handling in high-density applications
- Low-loss connectivity enables system design flexibility
- Corning® ClearCurve® multimode or single-mode fibres, to withstand tight bends and challenging cable routes
- Corning® CleanAdvantage™ technology and optimised caps eliminate the need for scoping and cleaning prior to initial field connection

EDGE8 EXACT LC Uniboot Patch Cords MM/OM4 and SM | Photos REN6462 and REN6461

Optical Performance

Fibre Type	LC Connector Insertion Loss	Reflectance
OM3, OM4, OM5	0.1 dB	≤ -20 dB
OS2	0.25 dB	≤ -58 dB

Ordering Information

E ☐☐ ☐☐ 02 ☐ NZ20 ☐☐☐ M - EX

1 **2** **3** **4** **5**

1 Select connector one type.
57 = SC Duplex multimode (OM3/OM4/OM5)
79 = LC Duplex multimode (OM3/OM4/OM5)
78 = LC Duplex single-mode (OS2)

2 Select connector two type.
79 = LC Duplex multimode (OM3/OM4/OM5)
78 = LC Duplex single-mode (OS2)

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

4 Defines cable type.
LZ = LSZH™ cable

5 Select cable length.
Standard lengths are 001, 002, 003, 004, 005, 007, 008, and 010

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

Notes:

CORNING