EDGE8® Solutions

Awards

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

The DCS awards are designed to reward the product designers, manufacturers, suppliers and providers operating in the data centre space and to recognise the achievements of the vendors and their business partners. The winners are selected by public vote from the installation, distribution, consultant and end-user communities from around the world.
EDGE8® Solutions

EDGE8® Solutions Introduction

Corning® ClearCurve® bend-optimised multimode and single-mode optical fibres are the core element of the system ensuring reliability when designing custom-engineered components thanks to its significant reduction in macrobend loss even in the most challenging bend scenarios. This technology enables Corning to provide significantly greater density across the range combined with a simple design and integration for LAN and SAN areas within the data centre, while the pre-terminated components reduce installation times and enable faster moves, adds, and changes (MACs).

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

That's the motivation behind EDGE8® solutions. All of the value of our original EDGE solutions, with the added superior network scalability, improved link performance, and 100% fibre utilisation of a Base-8 design.

EDGE8 solutions strengthen your data centre in three key areas:

- Increased asset utilisation with reduced patch cord complexity and the elimination of stranded cabling assets
- Technology adoption due to 100% fibre utilisation — without the need for conversion modules — improving the link performance while reducing costs
- Risk avoidance, providing a simple and clear path to 40G, 100G, and 400G

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

EDGE8® HD Housings

EDGE8 HD housings mount in 19-in racks or cabinets and provide industry-leading ultra-high-density connectivity when combined with EDGE8 modules, panels, harnesses, trunks, and patch cords.

The unique design of EDGE8 HD housings include sliding drawers enabling module or panel installation from the front or rear of the housing. Each sliding drawer contains integrated cable routing elements to make real structured patch cord management possible while providing unprecedented finger access without the need for tools or any other accessories. All EDGE8 HD housings come with additional side routing guides for patch cord integration to the cabinet. The adjustable mounting brackets provide flexible installation options for back-to-back or flush-mounting requirements, and the quick mount feature makes it quick and easy for one person to install the housing with little effort.

The mounting and removal of trunks is a simple, quick, and tool-less operation enabling rapid deployment of high-fibre-count trunks for faster moves, adds, and changes (MACs).

Labelling the housing couldn't be simpler with a full-size mounting area on the inside of the front door for clear-and-concise information. The easily installable trunk-mounting plate provides flexibility depending on your design (e.g., back-to-back) or application (e.g., reduced depth) concept.
EDGE8® Solutions

Features and Benefits

6-slot sliding drawers
Allow unprecedented finger access, easier patch cord/harness routing, and port identification

Quick mounting system
Enables one-person installation and depth adjustment of the housing in the rack

Integrated strain-relief plate can rotate 90 degrees
Makes it possible to install trunks through side or rear cable entry points

Removable top covers on the 1U and 2U housings
Provides easier access to modules and panels

Total flexibility in the same HD housing
- Accepts EDGE8® modules
- Accepts EDGE8 port breakout modules
- Accepts EDGE8 1x, 2x, and 4x MTP® adapter panels
- Accepts EDGE8 port tap modules

High port concentration with LC duplex and MTP Base-8 system
- 1U EDGE8 housing EDGE8-01U-SP
  72x LC duplex ports (144 fibre)
  72x MTP ports (576 fibre)
- 2U EDGE8 housing EDGE8-02U
  144x LC duplex ports (288 fibre)
  144x MTP ports (1152 fibre)
- 4U EDGE8 housing EDGE8-04U
  288x LC duplex ports (576 fibre)
  288x MTP ports (2304 fibre)

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Height unit</th>
<th>Dimensions (W x D x H)</th>
<th>Packaging Dimensions (W x D x H)</th>
<th>Shipping Weight</th>
<th>Number of Panels per Housing</th>
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</thead>
<tbody>
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<td>EDGE8-01U-SP</td>
<td>1U</td>
<td>432 mm x 561 mm x 44 mm</td>
<td>581 mm x 667 mm x 197 mm</td>
<td>8.2 kg</td>
<td>18</td>
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<td>EDGE8-02U</td>
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<td>432 mm x 561 mm x 88 mm</td>
<td>578 mm x 667 mm x 241 mm</td>
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<td>EDGE8-04U</td>
<td>4U</td>
<td>432 mm x 561 mm x 177 mm</td>
<td>578 mm x 667 mm x 327 mm</td>
<td>16.5 kg</td>
<td>72</td>
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</tbody>
</table>

Note: When rear strain-relief plate is removed from part number EDGE8-01U-SP, product depth reduces to 347 mm.
EDGE8® Solutions

EDGE8® FX Housings

EDGE8 FX housings mount in 19-in racks or cabinets and provide industry-leading high-density connectivity when combined with EDGE8 modules, panels, harnesses, trunks, and patch cords.

EDGE8 FX housings include a fixed, compact design providing module or panel deployment from the front or rear of the housing. The integrated cable routing elements of the housing make real structured patch cord management possible whilst providing unprecedented finger access without the need for tools or any other accessories.

All EDGE8 FX housings come with integrated side routing guides for patch cord integration to the cabinet. The adjustable mounting brackets provide flexible installation options for back-to-back or flush-mounting requirements. The new quick-mount feature makes it quick and easy for one person to install the housing with little effort.

The mounting and removal of trunks is a simple, quick, and tool-less operation enabling rapid deployment of high-fibre-count trunks for faster moves, adds, and changes (MACs).

Labelling the housing couldn’t be simpler – there is a full-size mounting area on the inside of the front door for clear and concise information to be displayed. The easily installable trunk mounting plate provides flexibility depending on your design (e.g., back to back) or application (e.g., reduced depth) concept.
EDGE8® Solutions

Features and Benefits

**Integrated routing guides**
Provides easier patch cord and harness routing

**Quick mounting system**
Allows for one-person installation

**Removable strain-relief plate**
Enables installation in 300 mm depth cabinets or back-to-back installation in 800 mm standard cabinets

**Improved mounting brackets**
Allow for depth adjustment in the rack

**Removable top covers on the 1U and 2U housings**
Provides easier access to modules and panels

**Total flexibility in the same FX housing**
- Accepts EDGE8 universal modules
- Accepts EDGE8 conversion modules
- Accepts EDGE8 Tap modules
- Accepts EDGE8 1x, 2x, 3x and 4x MTP® adapter panels
- Accepts EDGE8 4x LC duplex adapter panels

**High port concentration with LC duplex and MTP Base-8 system**
- 1U EDGE8 Housing EDGE8-01U-FP
  48x LC duplex ports (96 fibre)
  48x MTP ports (384 fibre)
- 2U EDGE8 Housing EDGE8-02U-FP
  96x LC duplex ports (192 fibre)
  96x MTP ports (768 fibre)
- 4U EDGE8 Housing EDGE8-04U-FP
  192x LC duplex ports (384 fibre)
  192x MTP ports (1536 fibre)

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Unit Height</th>
<th>Dimensions (W x D x H)</th>
<th>Packaging Dimensions (W x D x H)</th>
<th>Shipping Weight</th>
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</thead>
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<td>EDGE8-01U-FP</td>
<td>1U</td>
<td>432 mm x 437 mm x 44 mm</td>
<td>584 mm x 470 mm x 152 mm</td>
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<tr>
<td>EDGE8-02U-FP</td>
<td>2U</td>
<td>445 mm x 434 mm x 89 mm</td>
<td>251 mm x 575 mm x 362 mm</td>
<td>6.6 kg</td>
</tr>
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<td>EDGE8-04U-FP</td>
<td>4U</td>
<td>445 mm x 434 mm x 178 mm</td>
<td>340 mm x 575 mm x 362 mm</td>
<td>10 kg</td>
</tr>
</tbody>
</table>
EDGE8® Solutions

EDGE8® Trunks

EDGE8 MTP® trunks are preterminated cables with ultra-low-loss 8-fibre MTP connectors on both ends. The trunks build up the major backbone of the passive network infrastructure and enable rapid deployment for your campus LAN or data centre facility. All trunks are shipped with strain-relief clips that allow for tool-less installation in both EDGE8 solutions and Plug & Play™ systems housings. These trunks conform to TIA-568 Type-B polarity. All trunks are manufactured with Corning® CleanAdvantage™ technology and shipped with strain-relief clips that allow for an easy and tool-less installation.

Trunk Specifications

**Mechanical Characteristics**

<table>
<thead>
<tr>
<th>Fibre count</th>
<th>Nominal Outer Diameter</th>
<th>Weight</th>
<th>Min. Bend Radius Installation</th>
<th>Min. Bend Radius Operation</th>
<th>Crush resistance (reversible)</th>
<th>Max. Tensile Strength for Installation</th>
<th>Fire Load</th>
<th>Pulling Grip Outer Diameter</th>
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<tbody>
<tr>
<td>8</td>
<td>4.5 mm</td>
<td>23.5 kg/km</td>
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<td>67.5 mm</td>
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<tr>
<td>16</td>
<td>7.2 mm</td>
<td>41.1 kg/km</td>
<td>126 mm</td>
<td>108 mm</td>
<td>350 N/10 cm</td>
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<td>56.1 kg/km</td>
<td>145.3 mm</td>
<td>124.5 mm</td>
<td>350 N/10 cm</td>
<td>660 N</td>
<td>1.12 MJ/m</td>
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</tr>
<tr>
<td>48</td>
<td>8.3 mm</td>
<td>57.6 kg/km</td>
<td>145.3 mm</td>
<td>124.5 mm</td>
<td>350 N/10 cm</td>
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<td>1.34 MJ/m</td>
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<td>96</td>
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<td>192</td>
<td>15.2 mm</td>
<td>232.6 kg/km</td>
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<td>288</td>
<td>17.6 mm</td>
<td>393 kg/km</td>
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<td>4.86 MJ/m</td>
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Note: Plug size information: Fibre count 12-24 = Size 1 (h = 15 mm); Fibre count 36-144 = Size 2 (h = 20 mm).

**Optical Performance Multimode**

<table>
<thead>
<tr>
<th></th>
<th>Reflectance Connector A</th>
<th>Reflectance Connector B</th>
<th>Max. Insertion Loss Connector A</th>
<th>Max. Insertion Loss Connector B</th>
<th>Operation</th>
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<tbody>
<tr>
<td>MTP® Trunks</td>
<td>≤ -20 dB</td>
<td>≤ -20 dB</td>
<td>≤ 0.25 dB</td>
<td>≤ 0.25 dB</td>
<td>-10°C to 60°C</td>
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**Optical Performance Single-mode**

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<th>Reflectance Connector A</th>
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<th>Max. Insertion Loss Connector A</th>
<th>Max. Insertion Loss Connector B</th>
<th>Operation</th>
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<tbody>
<tr>
<td>MTP Trunks</td>
<td>≤ -65 dB</td>
<td>≤ -65 dB</td>
<td>≤ 0.35 dB</td>
<td>≤ 0.35 dB</td>
<td>-10°C to 60°C</td>
</tr>
</tbody>
</table>

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

### Reel Capacities

<table>
<thead>
<tr>
<th>Packaging method</th>
<th>Reel AA</th>
<th>Reel A</th>
<th>Reel B</th>
<th>Reel C</th>
<th>Reel Y</th>
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<tr>
<td>Reel Core (mm)</td>
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<td>415</td>
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<td>Reel Width (mm)</td>
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<td>32</td>
<td>23-140</td>
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## Trunk Shipping Information

### Reel Capacities

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<th>Fibre Count</th>
<th>Pulling Grips on Both Ends - D (m)</th>
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## Trunk Shipping Information

### Reel Capacities

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<td>2-25   25.5-100 100.5-175 -</td>
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<td>Reel Core (mm)</td>
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<td>Reel Width (mm)</td>
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<table>
<thead>
<tr>
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<td>220.5-300 - -</td>
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<td>288</td>
<td>- 175.5-600 600.5-999</td>
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EDGE8® Solutions

EDGE8® MTP® Trunks

EDGE8 MTP trunks utilise an 8-fibre push/pull optical connector that is pinned on both ends of the cable. These trunks are designed to interface with the EDGE8 universal modules or adapter panels for parallel optic applications. 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.

Features

- Pinned MTPs on both ends allow for a single pinless patch cord deployment in parallel optic electronics
- Small outer diameter improves cable tray fill ratio and airflow
- Low-loss connectivity enables system design flexibility cord deployment in parallel optic electronics
- Bend-improved fibres allow tighter cable bends for slack storage and routing, with less risk of downtime
- Corning® CleanAdvantage™ technology with optimised caps eliminating the need for scoping and cleaning prior to initial field connection.

Ordering Information

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

4. Select standard fiber count.
   08 = 8 fiber
   16 = 16 fiber
   24 = 24 fiber
   32 = 32 fiber
   48 = 48 fiber
   U8 = 288 fiber

5. Select fiber type.
   T = 50 μm multimode (OM3)
   Q = 50 μm multimode (OM4)
   V = 50 μm wideband 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 in (+70/-0 in)
   0 = Pigtail

8. Defines leg length.
   (end two on inside of reel).
   D = 840 in (+70/-0 in)
   0 = Pigtail
   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.
    002-300 metres
    (1 m increments measured from furcation to furcation plug)

11. Defines unit of measure.
    M = Metres

Note: For OM4 heather violet, please add -VI at the end of the part number.
EDGE8® MTP® Extender Trunks

EDGE8 MTP extender trunks provide additional distance for the backbone of the EDGE8 solution. With a non-pinned MTP connector on one end of the cable, a pinned MTP connector on the other end, 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 trunks are shipped with strain-relief clips that allow for the tool-less installation in EDGE8 solutions systems housings.

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

Features
- Small outer diameter improves cable tray fill ratio and airflow
- Bend-improved fibres allow tighter cable bends for slack storage and routing, with less risk of downtime
- Low-loss connectivity enables system design flexibility
- Corning® CleanAdvantage™ technology and optimised caps eliminating the need for scoping and cleaning prior to initial field connection

Ordering Information

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

Select MTP connector.
E5 = MTP 8 F (pinned) multimode
E7 = MTP 8 F (pinned) single-mode

Select MTP connector.
E6 = MTP 8 F (pinned) multimode
E8 = MTP 8 F (pinned) single-mode

Select standard fiber count.
08 = 8 fiber
16 = 16 fiber
24 = 24 fiber
32 = 32 fiber
48 = 48 fiber

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

Select cable length.
002-300 metres (1 ft increments measured from furcation to furcation)
002-300 m (1 m increments measured from furcation to furcation plug)

Defines leg length.
D = 840 in (+70/-0 in)
M = Metres

Note: For OM4 heather violet, please add -VI at the end of the part number.
**EDGE8® Solutions**

**EDGE8® Hybrid Trunks**

The EDGE8® Hybrid MTP® to LC duplex trunks combine pinned MTP connectors that connect to EDGE8 modules and duplex uniboot LC connectors that connect directly to electronics enabling more options for cabling your data centre.

**Features**

- Full fibre utilisation 8-fibre based infrastructure for optimised port breakout and harness mapping
- Ultra-low insertion loss performance for more connections in a link when deploying a TIA-942-compliant system
- Factory-terminated solutions provide consistent quality, ensure system performance, and reduce installation time
- Corning® CleanAdvantage™ technology and optimised caps eliminate the need for scoping and cleaning prior to initial field connection

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</table>

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 single-mode
   - E6 = MTP 8 F (non-pinned)
   - E7 = MTP 8 F (pinned) multimode single-mode
   - E8 = MTP 8 F (non-pinned) single-mode

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

4. **Select standard fibre count.**
   - 08 = 8 fibre
   - 16 = 16 fibre
   - 24 = 24 fibre
   - 32 = 32 fibre
   - 48 = 48 fiber

5. **Select fibre type.**
   - T = 50 μm multimode (OM3)
   - Q = 50 μm multimode (OM4)
   - V = 50 μm wideband 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 in (+70/-0 in)
   - C = 1500 in (+70/-0 in)

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

9. **Defines trunk type.**
   - W = Hybrid Universal Trunk (MTP pinned)
   - Z = Hybrid Extender Trunk (MTP non-pinned)

10. **Select cable length.**
    002-300 metres
    (1 ft increments measured from furcation to furcation) 002-300 m
    (1 m increments measured from furcation to furcation plug)

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

Note: For OM4 heather violet, please add -VI at the end of the part number.
EDGE8® Adapter Panels, MTP®

EDGE8 MTP adapter panels are pass-through panels that 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 patch cords. The backbone trunks connect at the rear of the adapters and then various connection options are possible at the front using end-to-end links such as MTP harnesses, MTP trunks to 40G patch cords (and in 40G multimode networks), etc. The MTP adapter panel is the easiest way to implement parallel optic applications in your data centre while retaining the existing hardware.

All EDGE8 adapter panels can be installed from the front or rear of any EDGE8 hardware using a simple release mechanism, thereby eliminating the need for any tools. EDGE8 MTP adapter panels are available with one, two and four 8-fibre adapters for multimode and single-mode applications. All panels feature unique shuttered MTP reversible adapters at the front of the panel for on-site changes to manage field polarity, and visual fault locator (VFL) compatible shutters that enable easy port identification while defusing the VFL light to ensure adequate eye safety.

Features

- Provides MTP connection points between trunks, harnesses, and patch cords
- Translucent shutters diffuse VFL light and eliminates the need for dust caps
- Can be installed or removed from the front or rear of a housing
- MTP adapter panels facilitate simple upgrades to parallel optics
- Enable pay-as-you-grow approach
- Packaged in easy-open containers

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EDGE8® Solutions

EDGE8® MTP® Patch Cords

EDGE8 patch cords allow for the seamless migration to higher data rates. The standard configuration of EDGE8 MTP patch cords is without pins.

EDGE8 patch cords are built utilising MTP PRO connectors that allow 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.

Features

- Slim, round 8-fibre interconnect cable for improved handling in high-density applications
- Low-loss connectivity enables system design flexibility
- Enabled by bend-insensitive Corning multimode or single-mode fibres
- Corning® CleanAdvantage™ technology and optimised caps eliminate the need for scoping and cleaning prior to initial field connection

<table>
<thead>
<tr>
<th>MTP Connector Insertion Loss</th>
<th>Reflectance</th>
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<td>MTP patch cord OM3, OM4, OM5</td>
<td>0.25 dB ≤ -20 dB</td>
</tr>
<tr>
<td>MTP patch cord OS2</td>
<td>0.35 dB ≤ -65 dB</td>
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</table>

Ordering Information

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

4. Defines cable type.
   - EZ = LSZH™, interconnect

5. Defines jumper.
   - N = Patch cable, no furcation

   - A = Type-A polarity
   - B = Type-B polarity
   Note: For jumper polarity, reference AEN156.

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

8. Defines unit of measure.
   - M = Metres

Note: Non-pinned patch cables should be used to mate to pinned EDGE8 trunks.
EDGE8® Solutions

EDGE8® Harnesses

One of the critical challenges facing data centre 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 patch cords.

An EDGE8 harness is an ultra-slim 8-fibre (2.0 mm) pre-terminated fibre cable with an MTP® PRO connector on one end and four LC duplex 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 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.

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.

The harnesses are the ultimate high-density solution for port hot spots in data centres.

Features

- Slim, round 2-fibre interconnect cable improves airflow and reduces congestion
- MTP PRO connectors allow for pinning and polarity changes in the field
- Low-loss connectivity enables system design flexibility
- Bend-improved fibres allow tighter cable bends for slack storage and routing, less risk of downtime
- Corning® CleanAdvantage™ technology with optimised caps eliminates the need for scoping and cleaning prior to initial field connection
EDGE8® Direct-Connect Harness

The EDGE8 direct-connect harness is a 1x4 MTP® PRO to LC duplex harness (one non-pinned 8-fibre MTP PRO connector on one end, four LC duplex connectors on the other) for direct connection to electronics with LC-style ports and for use as fabric of 4 x 10G ports to a 1 x 40G port. These harnesses are uniquely wired to manage polarity within and maintain transmit-to-receive connectivity.

Ordering Information

<table>
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<th>H</th>
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<th>8</th>
<th>L</th>
<th>Z</th>
<th>-</th>
<th>B</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>

1. **Select MTP PRO connector.**
   - E6 = Multimode direct-connect harness
   - E8 = Single-mode direct-connect harness

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

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

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

5. **Select stagger type or 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 uniform
   - 5 = Type 5 stagger
   - Uniform leg length is 150 mm.
   - For longer lengths, please select from the following.
     - J = 300 mm (+70/-0 mm)
     - K = 600 mm (+70/-0 mm)
     - L = 900 mm (+70/-0 mm)
     - M = 1200 mm (+70/-0 mm)
     - N = 1500 mm (+70/-0 mm)
     - P = 1800 mm (+70/-0 mm)
     - R = 2500 mm (+70/-0 mm)
   - Furcation legs are color coded by fibre type.

6. **Defines harness polarity.**
   - B = Universal polarity (Type-B)
   - Note: For harness polarity, reference AEN156.

7. **Select harness length.**
   - 001-060 metres
   - (1 m increments measured from plug to MTP, does not include LC stagger)
   - Note: For OM4 heather violet, please add -VI at the end of the part number.
EDGE8® Trunk Harness

The EDGE8 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 is possible with duplex LC connectors to interface with the electronics and a non-pinned MTP® PRO connector to connect into a trunk. This can be used in an equipment distribution area (EDA).

Ordering Information

1. Select MTP PRO connector.
   - E6 = Multimode trunk harness
   - E8 = Single-mode trunk harness
2. Select the breakout connector type.
   - 79 = LC uniboot, low-loss multimode
   - 78 = LC uniboot single-mode
   - LCs are universally wired.
3. Select fiber type.
   - Q = 50 μm multimode (OM4)
   - V = 50 μm wideband multimode (OM5)
   - G = Single-Mode (OS2)
4. Defines cable type.
   - LZ = LSZH™, harness
5. Select stagger type or 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 uniform
   - 5 = Type 5 stagger
   - Uniform leg length is 150 mm.
   - For longer lengths, please select from the following.
     - J = 300 mm (+70/-0 mm)
     - K = 600 mm (+70/-0 mm)
     - L = 900 mm (+70/-0 mm)
     - M = 1200 mm (+70/-0 mm)
     - N = 1500 mm (+70/-0 mm)
     - P = 1800 mm (+70/-0 mm)
     - R = 2500 mm (+70/-0 mm)
   - Furcation legs are color coded by fibre type.
   - For harness polarity, reference AEN156.
6. Defines harness polarity.
   - A = Polarity A
   - Note: For harness polarity, reference AEN156.
7. Select harness length.
   - 001-006 metres
   - Note: Measured in 1 m increments from plug to MTP PRO, does not include LC stagger
   - For OM4 heather violet, please add -VI at the end of the part number.
EDGE8® Module Harness

The EDGE8 module harness is designed to create a cross-connect point near the electronics by enabling port replication. This is possible with duplex LC connectors to interface with the electronics and a pinned MTP® PRO connector to connect into the back of a module. With port replication, your installation will look the same even after multiple moves, adds, and changes (MACs). This can be used in a horizontal distribution area (HDA).

Ordering Information

1. Select MTP PRO connector.
   - E5 = Multimode harness
   - E7 = Single-mode harness

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

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

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

5. Select stagger type or 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 uniform
   - 5 = Type 5 stagger
   For harness stagger type, reference AEN157.

6. Defines harness polarity.
   - B = Universal polarity (Type-B)
   Note: For harness polarity, reference AEN156.

7. Select harness length.
   - 001-006 metres
   Note: Measured in 1 m increments from plug to MTP PRO, does not include LC stagger

Uniform leg length is 150 mm.
For longer lengths, please select from the following:
- J = 300 mm (+70/-0 mm)
- K = 600 mm (+70/-0 mm)
- L = 900 mm (+70/-0 mm)
- M = 1200 mm (+70/-0 mm)
- N = 1500 mm (+70/-0 mm)
- P = 1800 mm (+70/-0 mm)
- R = 2500 mm (+70/-0 mm)

Furcation legs are color code by fiber type.

Note: For OM4 heather violet, please add -VI at the end of the part number.
EDGE8® Solutions

EDGE8® Modules

EDGE8 modules provide the interface between the MTP® connector on the trunk and the LC duplex patch cord that will then connect directly into the electronics or as a cross-connect in the main distribution area (MDA).

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. LC duplex adapters feature hinged 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 once removed, thereby exposing the interior end faces to dust particles and possible damage. In addition, the shutters are visual fault locator (VFL) compatible to allow easy port identification while diffusing the VFL light to ensure adequate eye safety.

All EDGE8 modules are manufactured with Corning® CleanAdvantage™ technology and an optimised MTP cap, eliminating the need for cleaning before initial field connection.

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Module Insertion Loss, Max.</th>
<th>Fibre Category</th>
<th>Adapter Colour Front</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multimode Modules</td>
<td>PC</td>
<td>0.35 dB</td>
<td>50 μm MM (OM4/OM5)</td>
</tr>
<tr>
<td>Single-Mode Modules</td>
<td>UPC</td>
<td>0.60 dB</td>
<td>SM (OS2)</td>
</tr>
</tbody>
</table>

Optical Performance

EDGE8 MM Modules | Photos REN6577 and REN6575

Family Spec Sheet LAN-2655-A4-BEN
Page 22 | Revision date 2020-02-21
Corning Optical Communications
EDGE8® Solutions

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 based on universal polarity ensures 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).

All EDGE8 modules are manufactured with Corning® CleanAdvantage™ technology and an optimised MTP cap, eliminating the need for cleaning before initial field connection. EDGE8 MTP to LC duplex modules are easily exchangeable 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.

Features
- VFL-compatible shuttered LC adapters create one-hand operation and decrease time needed to test and troubleshoot a link
- Front- and rear-loading capability decrease 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 for 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
Ordering Information

**ECM 8 - 08 - \[\_\_\_\_\_\] - \[\_\_\_\_\_\] - ULLL**

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 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
   *Other pinning configurations available upon request.*

5. **Select fiber type.**
   - Q = 50 μm multimode (OM4)
   - V = 50 μm wideband multimode (OM5)
   - G = Single-Mode Ultra (OS2)

*Note: Other options are available upon request. For OM4 heather violet, please add -VI at the end of the part number.*
EDGE8® Solutions

EDGE8® Port Breakout Module

The EDGE8 port breakout module enables conversion from a single 4-channel parallel optic port (such as 40GSR4, QSFP) to a patch panel representation with four LC duplex ports for use in a main distribution area. Typically, the MTP® tail will connect to the active electronics and breakout the 8-fiber QSFP 40G transceiver into 4x 2-fibre 10G LC duplex connections.

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

Ordering Information

| E C M 8 - | Select adapters on module front. |
| 1 | 05 = Shuttered LC duplex multimode  
| 2 | 04 = Shuttered LC duplex single-mode  
| | LCs are universally wired. |

| E Z M - | Select MTP adapter on the back of the module. |
| 3 | E5 = MTP 8 F (pinned) multimode  
| 4 | E6 = MTP 8 F (non-pinned) multimode  
| 5 | E7 = MTP 8 F (pinned) single-mode  
| 6 | E8 = MTP 8 F (non-pinned) single-mode  |

| Select fiber type. |
| 7 | Q = 50 μm multimode (OM4)  
| 8 | V = 50 μm wideband multimode (OM5)  
| 9 | G = Single-Mode Ultra (OS2)  |

| Defines cable type. |
| 10 | EZ = LSZH™, interconnect  |

| Select polarity. |
| 11 | A = Type-A polarity  
| 12 | B = Type-B polarity  |

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

Note: Other options are available upon request.  
For OM4 heather violet, please add -VI at the end of the part number.
EDGE8® Solutions

EDGE8® Front-Access Breakout Module

The EDGE8 module harness is designed to create a cross-connect point near the electronics by enabling port replication. This is possible with duplex LC connectors to interface with the electronics and a pinned MTP® PRO connector to connect into the back of a module. With port replication, your installation will look the same even after multiple moves, adds, and changes (MACs). This can be used in a horizontal distribution area (HDA).

Ordering Information

ECM - UM08 - □□□ - □□□□ F - ULLL

1 Select LC adapters.
   05 = Shuttered LC duplex multimode
   04 = Shuttered LC duplex single-mode

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

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

*Compatible with wideband (OM5) solutions.

Note: For OM4 heather violet, please add -VI at the end of the part number.
EDGE8® Solutions

EDGE™ Base-8 MTP® to LC Duplex Module

The Base-8 MTP® to LC duplex module is an 8-fibre module in the standard EDGE module footprint. This solution is well suited for customers who want to migrate to an 8-fibre solution, while still utilizing an existing EDGE footprint. These modules breakout 8-fibre MTP terminations from the rear into 4x LC duplex connectivity at the front. They easily integrate into existing EDGE (Base-12) housings or hardware.

The VFL-compatible shuttered adapters provide reliable dust protection without the need for dust caps and allow for easy fiber identification. All EDGE8® modules are manufactured with Corning® CleanAdvantage™ technology and an optimised MTP cap, eliminating the need for cleaning before initial field connection.

Ordering Information

```
ECM12 - UMO8 - [ ] [ ] - [ ] [ ] - ULL
```

1. Select LC adapters.
   - 05 = Shuttered LC duplex multimode
   - 04 = Shuttered LC duplex single-mode

2. Defines fibre count.
   - 08 = 8 fibres

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

4. Select MTP adapter.
   - E6 = MTP 8 F (non-pinned) multimode
   - E8 = MTP 8 F (non-pinned) single-mode

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

*Compatible with wideband (OM5) solutions.
EDGE8® Solutions

EDGE8® Tap Modules

EDGE8 Tap modules enable passive optical tapping of the network while reducing downtime and link loss, and increase rack space utilisation and density compared to other optical tether attachment point (TAP) options.

Unlike other passive optical tap solutions that must be added as separate devices in the network link, EDGE8 Tap modules integrate the coupler technology for passive optical tapping into a structured cabling component – the module. Monitored ports can be added without disrupting the system's live traffic, and insertion loss in the link is reduced by the integration of the passive optical tapping into the module.

EDGE8 Tap modules use an advanced splitter technology for multimode to reduce insertion loss compared to traditional splitter technology.

EDGE8 Tap modules enable up to 72 monitor links per one rack unit (1RU), and they fit seamlessly into EDGE8 solutions hardware for maximum cable management and better utilisation of rack space.
EDGE8® Solutions

EDGE8® MTP® to MTP Tap Modules / Configuration C

EDGE8 MTP to MTP Tap modules provide an MTP interface at the front of the Tap module which can be used with a harness for LC breakout applications, or with MTP patch cords for parallel optic applications. The MTP monitoring port can be located at the front or rear of the Tap module.

The front-of-module configuration, where the pinless "Tap" MTP adapter is on the front of the Tap module, enables simple patch management of the monitoring links via the patching zone at the front of the rack.

The back-of-module configuration, where the pinless "Tap" MTP adapter is on the rear of the Tap module, allows for remote monitoring away from the main data centre infrastructure.

### Multimode 50/125 OM4

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Split Ratio Live/Tap</th>
<th>Link Live MTP - Live MTP</th>
<th>Link Live MTP - Tap MTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETM8-50C-Q</td>
<td>EDGE8 Tap Module MTP-MTP</td>
<td>50/50</td>
<td>4.30 dB</td>
<td>4.30 dB</td>
</tr>
<tr>
<td>ETM8-50C-Q-R</td>
<td>EDGE8 Tap Module MTP-MTP and Rear Tap</td>
<td>50/50</td>
<td>4.30 dB</td>
<td>4.30 dB</td>
</tr>
<tr>
<td>ETM8-70C-Q-PREM</td>
<td>EDGE8 Tap Module Premium MTP-MTP</td>
<td>70/30</td>
<td>2.40 dB</td>
<td>6.40 dB</td>
</tr>
<tr>
<td>ETM8-70C-Q-R-PREM</td>
<td>EDGE8 Tap Module Premium MTP-MTP and Rear Tap</td>
<td>70/30</td>
<td>2.40 dB</td>
<td>6.40 dB</td>
</tr>
<tr>
<td>ETM8-80C-Q-PREM</td>
<td>EDGE8 Tap Module Premium MTP-MTP</td>
<td>80/20</td>
<td>1.90 dB</td>
<td>7.90 dB</td>
</tr>
<tr>
<td>ETM8-80C-Q-R-PREM</td>
<td>EDGE8 Tap Module Premium MTP-MTP and Rear Tap</td>
<td>80/20</td>
<td>1.90 dB</td>
<td>7.90 dB</td>
</tr>
</tbody>
</table>

### Single-Mode

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Split Ratio Live/Tap</th>
<th>Link Live MTP - Live MTP</th>
<th>Link Live MTP - Tap MTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETM8-50C-G</td>
<td>EDGE8 Tap Module MTP-MTP</td>
<td>50/50</td>
<td>4.20 dB</td>
<td>4.20 dB</td>
</tr>
<tr>
<td>ETM8-50C-G-R</td>
<td>EDGE8 Tap Module MTP-MTP and Rear Tap</td>
<td>50/50</td>
<td>4.20 dB</td>
<td>4.20 dB</td>
</tr>
<tr>
<td>ETM8-70C-G</td>
<td>EDGE8 Tap Module MTP-MTP</td>
<td>70/30</td>
<td>2.80 dB</td>
<td>6.50 dB</td>
</tr>
<tr>
<td>ETM8-70C-G-R</td>
<td>EDGE8 Tap Module MTP-MTP and Rear Tap</td>
<td>70/30</td>
<td>2.80 dB</td>
<td>6.50 dB</td>
</tr>
<tr>
<td>ETM8-80C-G</td>
<td>EDGE8 Tap Module MTP-MTP</td>
<td>80/20</td>
<td>2.00 dB</td>
<td>8.50 dB</td>
</tr>
<tr>
<td>ETM8-80C-G-R</td>
<td>EDGE8 Tap Module MTP-MTP and Rear Tap</td>
<td>80/20</td>
<td>2.00 dB</td>
<td>8.50 dB</td>
</tr>
<tr>
<td>ETM8-90C-G</td>
<td>EDGE8 Tap Module MTP-MTP</td>
<td>90/10</td>
<td>1.40 dB</td>
<td>12.50 dB</td>
</tr>
<tr>
<td>ETM8-90C-G-R</td>
<td>EDGE8 Tap Module MTP-MTP and Rear Tap</td>
<td>90/10</td>
<td>1.40 dB</td>
<td>12.50 dB</td>
</tr>
</tbody>
</table>
EDGE8® Solutions

EDGE8® MTP® to LC Tap Modules / Configuration B

EDGE8 MTP to LC Tap modules have a “Live” pinless MTP adapter (aqua for multimode; black for single-mode) and a “Tap” pinless MTP adapter (red) on the back of the module. This enables monitoring of the four live LC duplex ports on the application side.

### Multimode 50/125 OM4

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Split Ratio Live/Tap</th>
<th>Link Live LC - Live MTP</th>
<th>Link Live LC - Tap MTP</th>
<th>Link Live MTP - Live LC</th>
<th>Link Live MTP - Tap MTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETM8-50B-Q</td>
<td>EDGE8 Tap Module MTP-LC</td>
<td>50/50</td>
<td>4.15 dB</td>
<td>4.15 dB</td>
<td>4.15 dB</td>
<td>4.30 dB</td>
</tr>
<tr>
<td>ETM8-70B-Q-PREM</td>
<td>EDGE8 Tap Module Premium MTP-LC</td>
<td>70/30</td>
<td>2.25 dB</td>
<td>6.25 dB</td>
<td>2.25 dB</td>
<td>6.40 dB</td>
</tr>
<tr>
<td>ETM8-80B-Q-PREM</td>
<td>EDGE8 Tap Module Premium MTP-LC</td>
<td>80/20</td>
<td>1.75 dB</td>
<td>7.75 dB</td>
<td>1.75 dB</td>
<td>7.90 dB</td>
</tr>
</tbody>
</table>

### Single-Mode

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Split Ratio Live/Tap</th>
<th>Link Live LC - Live MTP</th>
<th>Link Live LC - Tap MTP</th>
<th>Link Live MTP - Live LC</th>
<th>Link Live MTP - Tap MTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETM8-50B-G</td>
<td>EDGE8 Tap Module MTP-LC</td>
<td>50/50</td>
<td>4.10 dB</td>
<td>4.10 dB</td>
<td>4.10 dB</td>
<td>4.20 dB</td>
</tr>
<tr>
<td>ETM8-70B-G</td>
<td>EDGE8 Tap Module MTP-LC</td>
<td>70/30</td>
<td>2.70 dB</td>
<td>6.40 dB</td>
<td>2.70 dB</td>
<td>6.50 dB</td>
</tr>
<tr>
<td>ETM8-80B-G</td>
<td>EDGE8 Tap Module MTP-LC</td>
<td>80/20</td>
<td>1.90 dB</td>
<td>8.40 dB</td>
<td>1.90 dB</td>
<td>8.50 dB</td>
</tr>
<tr>
<td>ETM8-90B-G</td>
<td>EDGE8 Tap Module MTP-LC</td>
<td>90/10</td>
<td>1.30 dB</td>
<td>12.40 dB</td>
<td>1.30 dB</td>
<td>12.50 dB</td>
</tr>
</tbody>
</table>
EDGE8® Solutions

EDGE8® LC to LC Tap Modules / Configuration A

EDGE8 Tap modules for traditional LC duplex systems enable customers to manage the monitoring access points via the patch cord infrastructure zone at the front of the cabinets.

EDGE8 LC to LC Tap modules have one LC duplex adapter for the traffic attachment point (TAP) and two duplex adapters for live traffic. The Tap adapters are red and the live traffic adapters are blue (for single-mode) or aqua (for multimode). The red LC adapter enables monitoring on the application side.

EDGE8 BiDi Tap modules have two LC duplex adapters for Tap and two duplex adapters for live traffic. The Tap adapters are red and the live adapters are blue (for single-mode) and aqua (for multimode). The red LC adapters enable monitoring on the application side.

### Multimode 50/125 OM4

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Split Ratio Live/Tap</th>
<th>Link Live LC - Live LC</th>
<th>Link Live LC - Tap LC</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETM8-50A-Q</td>
<td>EDGE8 Tap Module LC-LC</td>
<td>50/50</td>
<td>4.00 dB</td>
<td>4.00 dB</td>
</tr>
<tr>
<td>ETM8-50A-Q-BD</td>
<td>EDGE8 Tap Module BiDi LC-LC</td>
<td>50/50</td>
<td>4.00 dB</td>
<td>4.00 dB</td>
</tr>
<tr>
<td>ETM8-70A-Q-PREM</td>
<td>EDGE8 Tap Module Premium LC-LC</td>
<td>70/30</td>
<td>2.10 dB</td>
<td>6.10 dB</td>
</tr>
<tr>
<td>ETM8-80A-Q-PREM</td>
<td>EDGE8 Tap Module Premium LC-LC</td>
<td>80/20</td>
<td>1.60 dB</td>
<td>7.60 dB</td>
</tr>
</tbody>
</table>

### Single-mode

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Split Ratio Live/Tap</th>
<th>Link Live LC - Live LC</th>
<th>Link Live LC - Tap LC</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETM8-50A-G</td>
<td>EDGE8 Tap Module LC-LC</td>
<td>50/50</td>
<td>4.00 dB</td>
<td>4.00 dB</td>
</tr>
<tr>
<td>ETM8-70A-G</td>
<td>EDGE8 Tap Module LC-LC</td>
<td>70/30</td>
<td>2.60 dB</td>
<td>6.30 dB</td>
</tr>
<tr>
<td>ETM8-80A-G</td>
<td>EDGE8 Tap Module LC-LC</td>
<td>80/20</td>
<td>1.80 dB</td>
<td>8.30 dB</td>
</tr>
<tr>
<td>ETM8-90A-G</td>
<td>EDGE8 Tap Module LC-LC</td>
<td>90/10</td>
<td>1.20 dB</td>
<td>12.30 dB</td>
</tr>
</tbody>
</table>
EDGE8® MTP® PRO to MTP PRO TAP Harness

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

Ordering Information

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

2. Select MTP PRO connector (to electronics - each MTP Pro connector has 4 fibres).
   - E6 = MTP PRO 8 F (non-pinned) multimode
   - E8 = MTP PRO 8 F (non-pinned) single-mode

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

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

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

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

7. Select harness length.
   - 001-060 metres
   - 1 m increments measured from plug to MTP, does not include stagger.

8. Defines unit of measure.
   - M = Metres
EDGE8® Solutions

**EDGE8® MTP® to LC TAP Harness**

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

![EDGE8 MTP to LC TAP Harness](Photo REN6456)

## Ordering Information

<table>
<thead>
<tr>
<th>H</th>
<th>L</th>
<th>O</th>
<th>8</th>
<th>LZ</th>
<th>B</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
</tbody>
</table>

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

**Select MTP PRO connector (to electronics - each MTP Pro connector has 4 fibres).**
- E6 = MTP PRO 8 F (non-pinned) multimode
- E8 = MTP PRO 8 F (non-pinned) single-mode

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

**Select leg length in inches.**
- J = 300 mm (+70/-0 mm)
- K = 600 mm (+70/-0 mm)

**Select leg length in inches.**
- (leg OD is 2.0 mm)

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

**Select harness length.**
- 001-060 metres
  - 1 m increments measured from plug to MTP, does not include stagger.

**Defines harness polarity.**
- B = Type-B polarity

**Defines unit of measure.**
- M = Metres
Reverse polarity uniboot duplex 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. This patch cord comes with a straight-through polarity from the factory, but you can convert it to a flipped cable with no tools. This uniboot design allows one cable to carry both fibres, reducing the cable bulk when routing.

Features

- Slim, round dielectric 2-fibre interconnect cable for improved handling in high-density applications
- Reverse polarity uniboot-style duplex connectors
- Low-loss connectivity enables system design flexibility

Optical Performance

<table>
<thead>
<tr>
<th>LC Connector Insertion Loss</th>
<th>Reflectance</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC Patch Cord OM3, OM4, OM5</td>
<td>0.1 dB ≤ -20 dB</td>
</tr>
<tr>
<td>LC Patch Cord OS2</td>
<td>0.25 dB ≤ -58 dB</td>
</tr>
</tbody>
</table>

Ordering Information

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

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

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

Select cable length in metres.
Standard lengths are 001, 002, 003, 004, 005, 006, 007, and 010

Note: Additional lengths and plenum-rated jackets are available upon request. For OM4 heather violet, please add -VI at the end of the part number.
Reverse Polarity LC Duplex Triggers

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

Ordering Information

TRIGGER-BP-U-□

1

Select colour.

N = Blue
R = Red
E = Orange
B = Black
G = Green
Y = Yellow
B = Beige
Y = Rose
V = Slate
A = Turquoise

Note: Must order in multiples of 100.
## Cleaning Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
<th>Units Per Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLEANER-PORT-LC</td>
<td>Single-Fibre Port Cleaner for LC, keyed LC, and MU connector end faces for both UPC and APC polishes</td>
<td>1/1</td>
</tr>
<tr>
<td>2104466-01</td>
<td>Fibre Optic Cleaning Tool used to clean MTP® connector end faces as well as MTP connectors installed in a module</td>
<td>1/1</td>
</tr>
</tbody>
</table>

## Housing Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
<th>Units Per Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDGE8-TRAY-QTY1</td>
<td>EDGE8® Hardware Accessory, EDGE8 tray kit, quantity of 1</td>
<td>1/1</td>
</tr>
<tr>
<td>EDGE8-TRAY-QTY12</td>
<td>EDGE8 Hardware Accessory, EDGE8 tray kit, quantity of 12</td>
<td>12/1</td>
</tr>
<tr>
<td>EDGE-BKT-WT-2RU</td>
<td>Wire Tray Mounting Bracket for up to 2U of housing mounting space</td>
<td>1/1</td>
</tr>
<tr>
<td>EDGE-BKT-WT-4RU</td>
<td>Wire Tray Mounting Bracket for up to 4U of housing mounting space</td>
<td>1/1</td>
</tr>
<tr>
<td>EDGE-BKT-LR-2RU</td>
<td>Ladder Rack Mounting Bracket for up to 2U of housing mounting space</td>
<td>1/1</td>
</tr>
<tr>
<td>EDGE-BKT-LR-4RU</td>
<td>Ladder Rack Mounting Bracket for up to 4U of housing mounting space</td>
<td>1/1</td>
</tr>
</tbody>
</table>
## EDGE8® Solutions

### Trunk Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
<th>Units Per Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDGE-CDF-RJ04-BKT</td>
<td>EDGE™ Solutions Strain-Relief Bracket, CDF, accommodating four EDGE solutions clip parking positions</td>
<td>1/1</td>
</tr>
<tr>
<td>EDGE-CDF-RJ08-BKT</td>
<td>EDGE Solutions Strain-Relief Bracket, CDF, accommodating eight EDGE solutions clip parking positions</td>
<td>1/1</td>
</tr>
<tr>
<td>EDGE-CDF-RJ12-BKT</td>
<td>EDGE Solutions Strain-Relief Bracket, CDF, accommodating 12 EDGE solutions clip parking positions</td>
<td>1/1</td>
</tr>
<tr>
<td>PC1-BKT-23</td>
<td>EDGE Extension and Flush-Mount Bracket for mounting 1U housings into 23-in racks or cabinets</td>
<td>1/1</td>
</tr>
<tr>
<td>PC2-BKT-23</td>
<td>EDGE Extension and Flush-Mount Bracket for mounting 2U housings into 23-in racks or cabinets</td>
<td>1/1</td>
</tr>
<tr>
<td>PC4-BKT-23</td>
<td>EDGE Solutions Mounting Bracket for mounting 4U housings into 23-in racks or cabinets</td>
<td>1/1</td>
</tr>
<tr>
<td>EDGE-01U-FLSH-BKT</td>
<td>EDGE Extension and Flush-Mount Bracket for EDGE-01U</td>
<td>1/1</td>
</tr>
<tr>
<td>EDGE8-CCHBKT-1</td>
<td>Bracket to hold one EDGE8® solutions module that fits into Plug &amp; Play™ housings</td>
<td>1/1</td>
</tr>
</tbody>
</table>
# MTP® PRO Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
<th>Units Per Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTPPRO-TOOL</td>
<td>Field tool to perform pinning and polarity changes of MTP® PRO connectors</td>
<td>1/1</td>
</tr>
<tr>
<td>MTPPRO-PEX-MME-NOPINS</td>
<td>MTP PRO Pin Exchanger Kit, MM MTP Elite, empty (without pins)</td>
<td>1/1</td>
</tr>
<tr>
<td>MTPPRO-PEX-MME-PINS</td>
<td>MTP PRO Pin Exchanger Kit, MM MTP Elite, loaded (with pins)</td>
<td>1/1</td>
</tr>
<tr>
<td>MTPPRO-PEX-SME-NOPINS</td>
<td>MTP PRO Pin Exchanger Kit, SM MTP Elite, empty (without pins)</td>
<td>1/1</td>
</tr>
<tr>
<td>MTPPRO-PEX-SME-PINS</td>
<td>MTP PRO Pin Exchanger Kit, SM MTP Elite, loaded (with pins)</td>
<td>1/1</td>
</tr>
</tbody>
</table>
## EDGE8® Solutions

### MDA/Cross-Connect Accessories

Designed with simplicity in mind, the EDGE™ Dual Frame can support up to 5,760 LC duplex or MTP® ports. The system works by using one cable hub per 4U housing but there is no need to order multiple lengths of patch cords as the system has been designed to use just one, 4-m patch cord. The gravity-free loop created by the multiple patches supports the installation or removal of a single cable in less than two minutes irrespective of cable route. Several cable entry options and trunk & cable slack storage options on the rear the frame supports ultra-high-density deployments in a compact footprint and additional accessories compliment the frame including cable routing channels, doors, and side panels for improved containment and security.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
<th>Units Per Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABRKT2209PGN</td>
<td>EDGE™ Optical Distribution Frame Single Door and Side Wall Kit (Left or Right)</td>
<td>1/1</td>
</tr>
<tr>
<td>EDG-CAB2-R2218NNRAB</td>
<td>EDGE Optical Distribution Dual-Frame Door 2200 mm (H) x 1800 mm (W) x 600 mm (D)</td>
<td>1/1</td>
</tr>
<tr>
<td>CAB4KT2218PGN</td>
<td>EDGE Optical Distribution Dual-Frame Door and Side Wall Kit, 2200 mm (H) x 1800 mm (W) x 600 mm (D)</td>
<td>1/1</td>
</tr>
<tr>
<td>EDG-CAB-R2209NNRAB</td>
<td>EDGE Access Single Cabinet, 2200 mm (H) x 900 mm (W) x 600 mm (D), right cable entry, no side walls, no doors, bottom channel, assembled</td>
<td>-</td>
</tr>
<tr>
<td>EDG-CAB-R2209NNLAB</td>
<td>EDGE Rear Access Single Cabinet, 2200 mm (H) x 900 mm (W) x 600 mm (D), left cable entry, no side walls, no doors, bottom channel, assembled</td>
<td>-</td>
</tr>
</tbody>
</table>