APPLICATION
Conversion harnesses connect to electronics with LC style ports and aggregates 10G and 25G ports to a 40G or 100G port. The harness will manage polarity to maintain the transmit and receive connections. The harness links an MTP® connector on one end with duplex LC connectors on the other end. The harnesses interface to QSFP+, QSFP28, and CXP transceivers. MTP Connectors feature ultra low loss to support maximum distance and multiple connection points while staying within IEEE low-loss limits.

FEATURES
- Ultra Low-Loss 8- and 12-fiber MTP Connectors for maximum network design flexibility
- Small diameter cable for dense connectivity
- Available in 50 µm OM3, OM4, and OM4+ multimode fiber and OS2 single-mode fiber
- Uses bend insensitive fiber; lowers risk for pinched cables
- Available with optional reversing polarity LC Uniboot

DESIGN CONSIDERATIONS
- MTP – unpinned (female) for transceiver interface
- Overall length can be application specific
- Breakout length can be application specific
- Conversion cassettes also available in e2XHD, HDX, and Opt-X® footprints

STANDARDS COMPLIANCE
- ANSI/TIA-568.3-D
- ANSI/TIA-942
- IEEE 802.3ba
- IEEE 802.3bm

PHYSICAL SPECIFICATIONS
Nominal O.D.: 3.0 mm
Bend Radius (installation): 3.2 cm (1.2 in)
Bend Radius (operation): 2.0 cm (0.8 in)
Fiber Count: 8, 24
Jacket Color: Aqua (OM3 and OM4)
Violet (OM4+)
Yellow (OS2)
Jacket Material: Plenum Rated

OPTICAL SPECIFICATIONS
Wavelengths: 850 nm / 1310 nm
Return Loss: > -20 dB
Minimum EMB (OM3): 2000 MHz/km
Minimum EMB (OM4): 4700 MHz/km
Minimum EMB (OM4+): 4900 MHz/km

PERFORMANCE SPECIFICATIONS

<table>
<thead>
<tr>
<th>CONVERSION HARNESS INSERTION LOSS</th>
<th>Multimode</th>
<th>Single-mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTP-LC</td>
<td>0.35</td>
<td>0.50</td>
</tr>
<tr>
<td></td>
<td>0.50</td>
<td>0.50</td>
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</table>

COUNTRY OF ORIGIN
USA
PRODUCT SPECIFICATIONS
Opt-X® Unity Conversion Fiber Harnesses

WARRANTY INFORMATION
For a copy of Leviton product warranties, visit www.leviton.com/warranty.

ELECTRONIC FILES
For CAD files, typical specs, or technical drawings (.DXF, .DWG), visit www.leviton.com.

Conversion Harness for QSFP+

MTP Fiber Color
1-1 Blue
1-2 Orange
1-3 Green
1-4 Brown
1-5 Yellow
1-6 Violet
1-7 Rose
1-8 Aqua

Conversion Harness for CXP

MTP Fiber Color
1-1 Blue
1-2 Orange
1-3 Green
1-4 Brown
1-5 Yellow
1-6 Violet
1-7 Rose
1-8 Aqua
2-13 Blue
2-14 Orange
2-15 Green
2-16 Brown
2-17 Gray
2-18 White
2-19 Red
2-20 Black
2-21 Yellow
2-22 Violet
2-23 Rose
2-24 Aqua
### 8-Fiber Conversion Harness for QSFP+ (40G) and QSFP28 (100G)

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OM3, 8-fiber, 6-foot, 12-inch breakout</td>
<td>FHU-EH008MR612K</td>
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<tr>
<td>OM3, 8-fiber, 10-foot, 12-inch breakout</td>
<td>FHU-EH008MR1012K</td>
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<tr>
<td>OM4, 8-fiber, 6-foot, 12-inch breakout</td>
<td>FHU-FH008MR612K</td>
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<tr>
<td>OM4, 8-fiber, 10-foot, 12-inch breakout</td>
<td>FHU-FH008MR1012K</td>
</tr>
<tr>
<td>OS2, 8-fiber, 6-foot, 12-inch breakout</td>
<td>FHU-AH008MR612K</td>
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<tr>
<td>OS2, 8-fiber, 10-foot, 12-inch breakout</td>
<td>FHU-AH008MR1012K</td>
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</tbody>
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### 24-Fiber Conversion Harness for CXP (100G)

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>OM3, 24-fiber, 6-foot, 24-inch breakout</td>
<td>FHU-EH024JC624K</td>
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<tr>
<td>OM3, 24-fiber, 10-foot, 24-inch breakout</td>
<td>FHU-EH024JC1024K</td>
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<tr>
<td>OM4, 24-fiber, 6-foot, 24-inch breakout</td>
<td>FHU-FH024JC624K</td>
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<tr>
<td>OM4, 24-fiber, 10-foot, 24-inch breakout</td>
<td>FHU-FH024JC1024K</td>
</tr>
</tbody>
</table>

Make to order!  

**OPT-X UNITY CONVERSION FIBER HARNESS**

<table>
<thead>
<tr>
<th>FIBER TYPE</th>
<th>FIBER COUNT</th>
<th>TERMINATION</th>
<th>CABLE LENGTH (FEET)</th>
<th>BREAKOUT LENGTH (INCHES)</th>
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<tbody>
<tr>
<td>OM3 (E)</td>
<td>- 8</td>
<td>Custom</td>
<td>- 12-48</td>
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<td>OM4 (aqua) (F)</td>
<td>- 24</td>
<td>Male (N, H)</td>
<td>- Other</td>
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<td>OM4+ (G)</td>
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<td>Female (M, J)</td>
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<tr>
<td>OS2 (A)</td>
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<td>Custom</td>
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<td>LC (R)</td>
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<td>Uniboot LC (V)</td>
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</tbody>
</table>

For assistance customizing your Opt-X Unity trunks, please visit leviton.com/configurator or call Tech Support at 800.824.3005.