

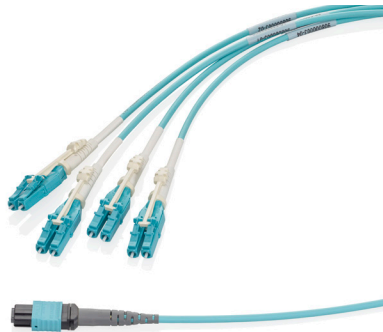
PRODUCT SPECIFICATIONS

OPT-X Unity Ultra Low Loss Plenum Conversion Fiber Harnesses

OPT-X™ Unity Ultra Low Loss Plenum Conversion Fiber Harnesses

APPLICATION

Plenum 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.



SPECIFICATION

All pre-terminated solution components shall be provided and warranted by a single manufacturer. Multimode conversion harnesses shall meet an optical connector insertion loss not to exceed 0.35 dB per 8-fiber harness, or 0.50 dB per 24-fiber harness. Components with modular (8-fiber or 24-fiber) connection shall use MTP rather than MPO connectors. All LC connectors shall use ceramic ferrules and sleeves. All harnesses shall have polarities compatible with TIA methods. Harnesses with LC unibody connectors shall use SPECTRO-LINK™ Technology to support field polarity reversal without twisting or moving fibers. Unibody LC connectors shall have a push/pull grip that, coupled with a one-piece unitized duplex housing, shall assure exact centerline spacing for fast mating in congested patching fields. Harnesses shall be pre-terminated and pre-tested with test documentation provided upon request.

COUNTRY OF ORIGIN

USA

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 and OM4 multimode fiber
- Uses bend insensitive fiber; lowers risk for pinched cables
- LC Unibody connector with SPECTRO-LINK™ Technology includes reversible polarity feature, allowing polarity changes in the field without tools

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 SDX footprints

STANDARDS & REGULATIONS

- ANSI/TIA-568.3-D
- ANSI/TIA-942
- Supports IEEE 802.3xx standards applicable by connector and cable type

MECHANICAL 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)
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

WARRANTY INFORMATION

For Leviton product warranties, go to leviton.com/ns/warranty

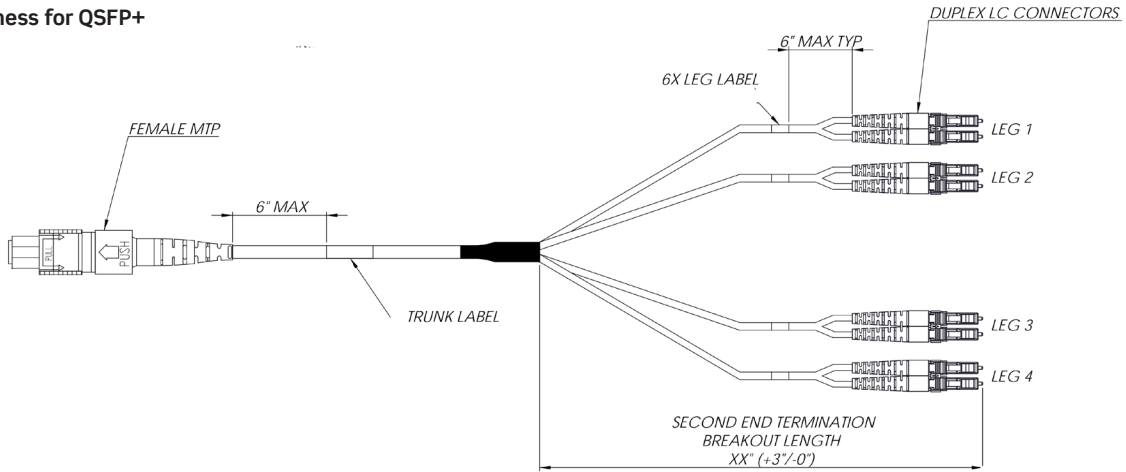
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Conversion Harness for QSFP+

MTP Fiber Color

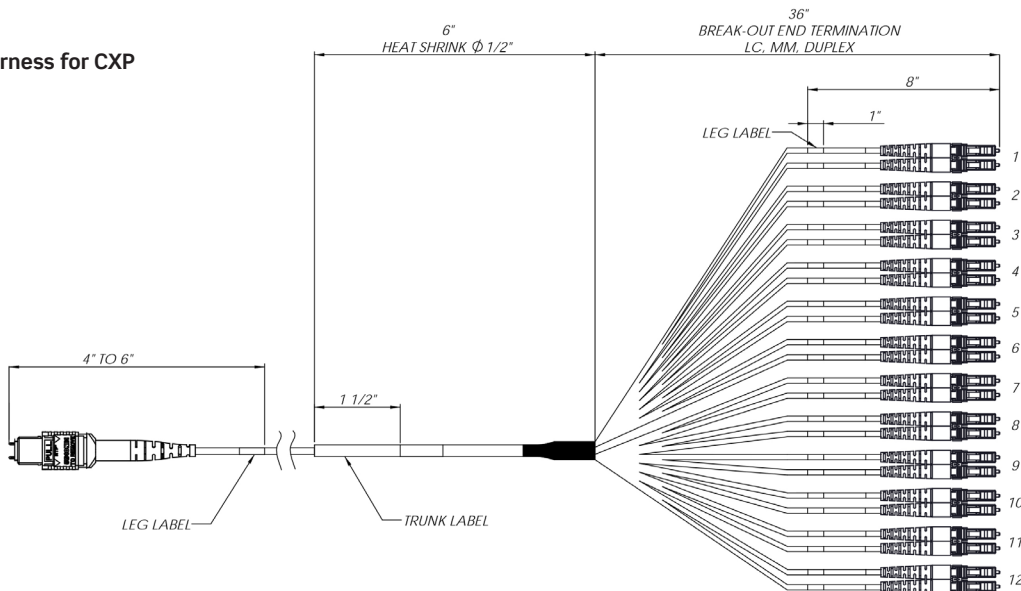
- 1 Blue
- 2 Orange
- 3 Green
- 4 Brown
- 5 Yellow
- 6 Violet
- 7 Rose
- 8 Aqua



Conversion Harness for CXP

MTP Fiber Color

- 1-1 Blue
- 1-2 Orange
- 1-3 Green
- 1-4 Brown
- 1-5 Gray
- 1-6 White
- 1-7 Red
- 1-8 Black
- 1-9 Yellow
- 1-10 Violet
- 1-11 Rose
- 1-12 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



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8-FIBER PLENUM CONVERSION HARNESS FOR QSFP+ (40G) AND QSFP28 (100G)	
Description	Part No.
OM3, 8-fiber, 6-foot, 12-inch breakout	FHU-EH008MR612K
OM3, 8-fiber, 10-foot, 12-inch breakout	FHU-EH008MR1012K
OM4, 8-fiber, 6-foot, 12-inch breakout	FHU-FH008MR612K
OM4, 8-fiber, 10-foot, 12-inch breakout	FHU-FH008MR1012K

24-FIBER PLENUM CONVERSION HARNESS FOR CXP (100G)	
Description	Part No.
OM3, 24-fiber, 6-foot, 24-inch breakout	FHU-EH024JC624K
OM3, 24-fiber, 10-foot, 24-inch breakout	FHU-EH024JC1024K
OM4, 24-fiber, 6-foot, 24-inch breakout	FHU-FH024JC624K
OM4, 24-fiber, 10-foot, 24-inch breakout	FHU-FH024JC1024K

FIBER INSERTION LOSS PERFORMANCE (DB)		
Connector Mated Pairs	8-Fiber Max. IL Multimode	24-Fiber Max. IL Multimode
MTP-LC	0.35	0.50

Make to order!		OPT-X UNITY PLENUM CONVERSION FIBER HARNESSES		
Fiber Type	Fiber Count	Termination	Cable Length (Ft.)	Breakout Length (In.)
<ul style="list-style-type: none"> OM3 (E) OM4 (aqua) (F) 	<ul style="list-style-type: none"> 8 24 	FIRST END <ul style="list-style-type: none"> Male (N, H) Female (M, J) SECOND END <ul style="list-style-type: none"> LC (R) LC Uniboot (V) 	<ul style="list-style-type: none"> Custom 	<ul style="list-style-type: none"> 12-48 Other



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

For further support information, visit leviton.com/ns/support

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