

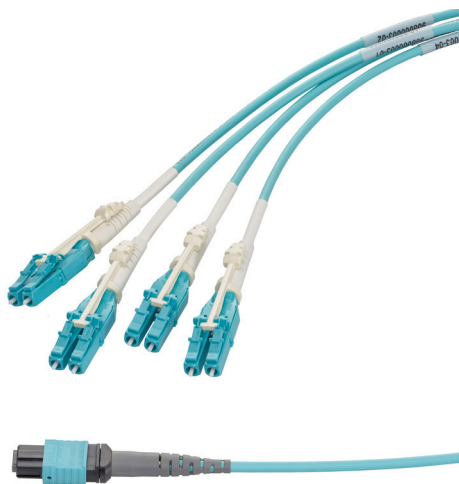
PRODUCT SPECIFICATIONS

OPT-X™ Engage Low Loss Plenum Harness

OPT-X Engage Low Loss Plenum Harness

APPLICATION

MPO harnesses are pre-terminated, pre-tested, and can be used with fiber trunks and patch panels. The harnesses are available in OS2, OM3, OM4, and OM5, and lengths and breakouts can be configured to meet specific applications.



SPECIFICATION

All pre-terminated solution components, including trunks, modules, harnesses, brackets, patch panels, and enclosures shall be provided and warranted by a single manufacturer. All discrete connectors (LC Unibody, LC) shall use ceramic ferrules and sleeves. Multimode and single-mode MPO harnesses shall meet an optical connector insertion loss not to exceed 0.60 dB for 8- and 12-fiber harnesses. MPO-discrete harnesses shall have a plenum-rated jacket and shall be available first end MPO (8, 12, or 16 strands), then broken out to discrete connectors including LC Unibody or LC at the far end. All harnesses shall have polarities compatible with TIA methods. 16-Fiber Y-harnesses have a 16-fiber MPO on first end and 2 x 8-fiber MPOs on second end. Harnesses shall be pre-terminated and pre-tested with test results included for each assembly. 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.

FEATURES & BENEFITS

- Pre-terminated plenum MPO-to-discrete connectors (LC Unibody, LC) or 16 Fiber MPO - 2 x 8-Fiber MPOs
- LC Unibody connector with SPECTRO-LINK technology allows tool-free polarity changes in the field
- Custom staggering available
- Used in conjunction with fiber trunks, patch panels and active equipment
- Used as direct connect into switches and servers
- 100% factory tested, with test results included for each assembly
- All assemblies labeled with serial number and length for traceability and easy re-order
- All Single-mode MPO connectors are angle polish (APC)
- Cable is plenum rated
- Multimode 16-fiber MPO/APC terminations for QSFP-DD transceivers (400G and 800G)

STANDARDS & REGULATIONS

- ANSI/TIA-568.3
- ANSI/TIA-942
- Supports IEEE 802.3xx standards applicable by connector and cable type
- OM3, OM4, OM5 meets ITU-T G651.1
- OM5 meets TIA 492-AAAE for SWDM
- OS2 meets ITU-T 652.D, ITU-T 657.A1
- Detailed Fiber Specifications in PS 0309 data sheet

WARRANTY INFORMATION

For Leviton product warranties, go to [Leviton.com/ns/warranty](https://leviton.com/ns/warranty)

COLOR CODES

Cable Jackets

Single-mode	Yellow
OM3, OM4 (50/125 µm)	Aqua
OM5	Lime Green

Connectors

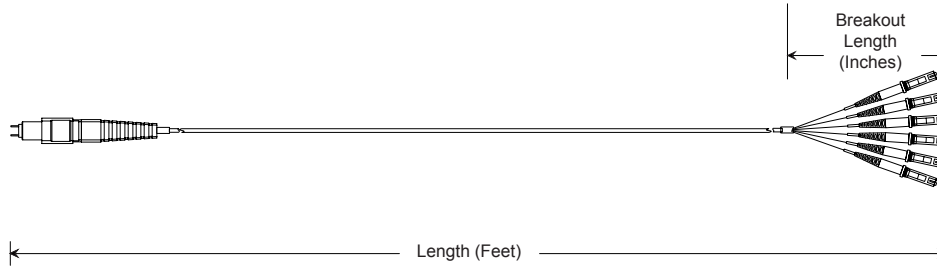
	LC	MPO
Single-mode APC	Blue	Yellow
OM3, OM4 UPC	Aqua	Black
OM3, OM4 APC	Aqua	Green
OM5	Beige (LC)	Lime Green

LC Connector Boots

Multimode (OM3, OM4)	Aqua, White
Multimode (OM5)	Lime Green, White
Single-mode	Blue, White

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OPT-X™ Engage Low Loss Plenum Harness



OPT-X ENGAGE PLENUM FIBER HARNESSSES

Description	Part Number
12-Fiber MPO (female) to LC Duplex, OM3, 8 feet long (24" breakout)	FH-EH012LR0824x
12-Fiber MPO (female) to LC Duplex, OM4, 8 feet long(24" breakout)	FH-FH012LR0824x
12-Fiber MPO (female) to LC Duplex, OS2, 8 feet long (24" breakout)	FH-AH012LR0824x
12-Fiber MPO (male) to LC Duplex, OM3, 8 feet long (24" breakout)	FH-EH012KR0824x
12-Fiber MPO (male) to LC Duplex, OM4, 8 feet long (24" breakout)	FH-FH012KR0824x
12-Fiber MPO (male) to LC Duplex, OS2, 8 feet long (24" breakout)	FH-AH012KR0824x
12-Fiber MPO (female) to LC Unibody, OM3, 8 feet long (24" breakout)	FH-EH012LV0824x
12-Fiber MPO (female) to LC Unibody, OM4, 8 feet long (24" breakout)	FH-FH012LV0824x
12-Fiber MPO (female) to LC Unibody, OS2, 8 feet long (24" breakout)	FH-AH012LV0824x
12-Fiber MPO (male) to LC Unibody, OM3, 8 feet long (24" breakout)	FH-EH012KV0824x
12-Fiber MPO (male) to LC Unibody, OM4, 8 feet long (24" breakout)	FH-FH012KV0824x
12-Fiber MPO (male) to LC Unibody, OS2, 8 feet long (24" breakout)	FH-AH012KV0824x

x = Polarity Method A (A), B Core (BC), B Edge (BE), or C (C)

HARNESS PERFORMANCE (dB)

Connectors	Multimode	Single-mode
	Max IL	Max IL
MPO + LC Unibody	0.60	0.60
MPO + LC	0.60	0.60
MPO + SC	0.60	0.60
MPO + MPO	0.70	0.70

Make to order!

STANDARD PRE-TERMINATED FIBER HARNESS OPTIONS

Fiber Type	Cable Type	Fiber Count	Termination	Termination	Cable Length (Ft.)	Breakout Length (In.)	Polarity
- OM3 (E) - OM4 (aqua) (F) - OM5 (lime green) (5) - OS2 (A)	Harness (H)	8 12 16	FIRST END 8-fiber MPO (male) (N) 8-fiber MPO (female) (M) 12-fiber MPO (male) (K) 12-fiber MPO (female) (L) 16-fiber MPO/APC (male) (T) 16-fiber MPO/APC (female) (S)	SECOND END - LC Unibody (V) - LC (R) 8-fiber MPO(female) (M) 8-fiber MPO (male) (N) 8-fiber MPO/APC (female) (G) 8-fiber MPO/APC (male) (P)	5-40	12 18 24 30 36 48	- MPO Method A (A) - MPO Method B, Core (BC) - MPO Method B, Edge (BE) - MPO Method C (C) 8-fiber Breakout 1x4 (K) 16-fiber Universal Breakout 1x2 (U)

For assistance customizing your trunk cables, please visit leviton.com/configurator or call Tech Support at 800-824-3005.

Harnesses are typically equipped with pinned (male) connectors on one end.

Standard harnesses are supplied with straight polarity.



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

The terms MTP® and MPO are used interchangeably for the multi-fiber push-on connector.

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MTP® is a registered trademark of US Conec, Ltd.

USA
Network Solutions Headquarters
 +1 (800) 722 2082
infoUSA@leviton.com
 BERK-TEK™ Cable
 +1 (800) 237 5835 | infoUSA@leviton.com

Asia Pacific
 +852 3620 2602
infoAPAC@leviton.com

Canada
 +1 (800) 461 2002
infoCanada@leviton.com

Europe
 +44 (0) 1592 772124
infoEurope@leviton.com

Latin America
 MX: +52 (55) 2128 6286
 LATAM: +52 (55) 2333 5963
infoLATAM@leviton.com

Middle East & Africa
 +971 (4) 247 9800
infoMEA@leviton.com

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