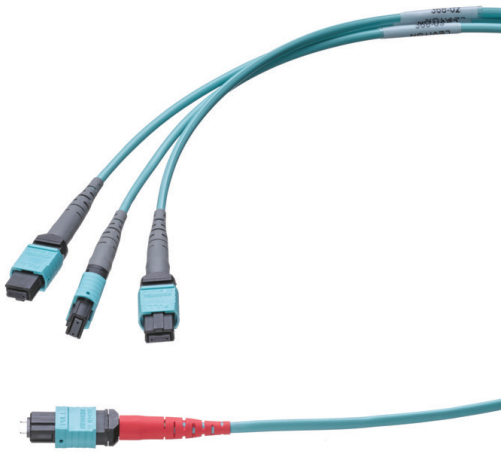
OPT-X Unity Plenum Ultra Low Loss MPO Array Harness

APPLICATION

OPT-X Unity Plenum MPO Array Harnesses are pre-terminated, pre-tested, and can be used at the equipment interface or MPO adapters to connect to the structured cabling. Available in OM3, OM4, and OS2, harnesses are designed to cross connect from structured cabling directly into active transceivers with an MPO/MTP interface. Harnesses are offered with 8-, 12-, or 24-fiber MPOs, depending on application. MPO connectors feature ultra low loss to support maximum distance and multiple connection points while staying within IEEE low-loss limits. For 40G, 100G, 200G, and 400G transceiver requirements.



SPECIFICATION

All pre-terminated solution components, including trunks, cassettes, harnesses, brackets, patch panels, and enclosures, shall be provided and warranted by a single manufacturer. MPO connectors with 8, 12, and 24 fibers are used with array harnesses. Multimode MPO array harnesses shall meet an optical connector insertion loss not to exceed 0.20 dB for 8- and 12-fiber MPO connectors or 0.35 dB per 24-fiber MPO connector. Single-mode MPO array harnesses shall meet an optical connector insertion loss not to exceed 0.35 dB per mated pair. Harnesses shall be pre-tested with test documentation provided with each assembly.

FEATURES & BENEFITS

- Ultra Low Loss 8-,12-, and 24-fiber MPO connectors for maximum network design flexibility
- Plug and play fiber eliminates the need for complicated and craft-sensitive field terminations and splices
- Fiber-on-demand manufacturing and logistics allows Leviton to deliver plug and play solutions with significantly reduced lead times
- Pre-terminated plenum MPO-to-MPO connector harnesses are used in conjunction with MTP adapter plates
- All assemblies labeled with serial number and length for traceability
- 100% factory tested, with test results included for each assembly
- Boots are color-coded to designate the number of fibers per connector: 24-fiber is red, 12-fiber is black, and 8-fiber is gray

DESIGN CONSIDERATIONS

- For use with Leviton MPO cassettes, panels, and trunks
- For use in connecting directly into 40, 100, 200, and 400 Gb/s transceivers
- Used in Base8, Base12, and Base24 cabling systems
- Leviton 24-fiber connectors have a 20 N spring to provide max 0.35 dB insertion loss. If mated to another 24-fiber MPO connector with a 10 N spring, performance may result in >0.35 dB insertion loss

STANDARDS & REGULATIONS

- Cable is Plenum Rated
- ANSI/TIA-568.3
- Supports IEEE 802.3xx standards applicable by connector and cable type
- ANSI/TIA-942

WARRANTY INFORMATION

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

OPT-X Unity Plenum Ultra Low Loss MPO Array Harness

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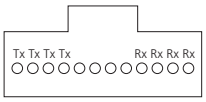
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PRODUCT SPECIFICATIONS
OPT-X™ Unity Plenum Ultra Low Loss MPO Array Harness

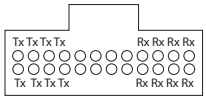
LEVITON Network Solutions

COLOR CODES

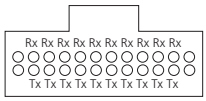
Cable Jackets		
OM3 and OM4 50/125 µm laser optimized	Aqua	
OS2 9/125 µm laser optimized	Yellow	
Connectors		
OM3, OM4 50/125 µm laser optimized	Aqua	
OS2 9/125 µm laser optimized	Yellow	
MPO Connector Boots	**Multimode**	**Single-mode**
8-fiber	Gray	Gray
12-fiber	Black	Black
24-fiber	Red	Red



QSFP 40G BASE-SR4, QSFP28 100BASE-SR4, 100G-PSM4, 200G-SR4, 400G-DR4, 400G-SR4.28-fiber MPO



2x100G-PSM4, 2x100G-SR4



100GBASE-SR10, 24-fiber MPO

FIBER INSERTION LOSS PERFORMANCE (DB)

Connector Mated Pairs	Max. IL Multimode	Max. IL Single-mode
8-fiber MPO	0.20	0.35
12-fiber MPO	0.20	0.35
24-fiber MPO	0.35	0.35

OPT-X UNITY PLENUM ULTRA LOW LOSS MPO ARRAY HARNESSES

First End 24-Fiber MPO	Second End 12-Fiber MPO	Second End 8-Fiber MPO
MPO (female) to MPO (female), OM3, 12 feet long (24" breakout)	FHU-EH024JL1224BC	FHU-EH024JM1224S5
MPO (female) to MPO (female), OM4, 3 meters long (24" breakout)	FHU-FH024JL1224BC	FHU-FH024JM1224S5
MPO (female) to MPO (female), OS2, 3 meters long (24" breakout)	FHU-AH024JL1224BC	FHU-AH024JM1224S5
MPO (male) to MPO (female), OM3, 12 feet long (24" breakout)	FHU-EH024HL1224BC	FHU-EH024HM1224S5
MPO (male) to MPO (female), OM4, 3 meters long (24" breakout)	FHU-FH024HL1224BC	FHU-FH024HM1224S5
MPO (male) to MPO (female), OS2, 3 meters long (24" breakout)	FHU-AH024HL1224BC	FHU-AH024HM1224S5
MPO (female) to MPO (male), OM3, 12 feet long (24" breakout)	FHU-EH024JK1224BC	FHU-EH024JN1224S5
MPO (female) to MPO (male), OM4, 3 meters long (24" breakout)	FHU-FH024JK1224BC	FHU-FH024JN1224S5
MPO (female) to MPO (male), OS2, 3 meters long (24" breakout)	FHU-AH024JK1224BC	FHU-AH024JN1224S5

Make to order! OPT-X UNITY PLENUM ULTRA LOW LOSS MPO ARRAY HARNESS OPTIONS

Fiber Type	Cable Type	Fiber Count	Termination	Cable Length (Ft.)	Breakout Length (In.)	Polarity	Location
• OM3 (E) • OM4 aqua (F) • OS2 (A)	• Harness	• 24	**FIRST END** • 24 F MPO male (H) • 24 F MPO female (J) **SECOND END** • 12 F MPO male (K) • 12 F MPO female (L) • 8 F MPO male (N) • 8 F MPO female (M)	• 3-33	• 1-48	• MPO Method B [B] • 1:3 Breakout (S5)	• Core (C) • Edge (E)



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

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

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

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

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