LEVITON®
Network Solutions

OPT-X™ Engage Low Loss Plenum Array Cords

APPLICATION

OPT-X Engage Plenum MPO/MTP® Array Cords are designed to cross connect from structured cabling directly into active equipment with an MPO transceiver interface. They are also used as direct interconnect cables for point-to-point connections.

SPECIFICATION

All pre-terminated solution components, including trunks, modules, harnesses, brackets, patch panels, and enclosures, shall be provided and warranted by a single manufacturer. Components with modular (8-,12-,16-fiber) connection shall use MPO connectors with color coded boot by fiber count. Multimode array cords shall meet an optical connector insertion loss not to exceed 0.35 dB per mated pair for 8, 12, and 16 fibers. The cords shall be compliant with ANSI/TIA-568.3-E and multiple IEEE 802.3 standards supporting QSFP form factors.

FEATURES

- Offered in OM3, OM4, OM5, and OS2
- 8-, 12- and 16-fiber array cords offer a migration path from 40/100GbE to 400/800GbE
- All array cords use low-loss MPO/MTP connector
- Plenum rated cable

DESIGN CONSIDERATIONS

- For use with Leviton cassettes, adapter plates and panels
- For use in connecting directly into 8 fiber, QSFP transceivers
- Standard Array Cords have pinned (male) connector on first end and pinless (female) connector on second end
- When plugging directly to transceivers, array cord connector should have no pins (female)
- Multimode 8- and 16-fiber MPO/APC terminations for QSFP-DD transceivers (400G and 800G)

STANDARDS & REGULATIONS

- ANSI/TIA-568.3-E
- ANSI/TIA-942
- OM3, OM4, OM5 meet ITU-T G651.1
- OM5 meets TIA 492-AAAE for SWDM
- OS2 meets ITU-T 652.D and ITU-T 657.A1
- Meets OFNP requirements

MECHANICAL SPECIFICATIONS

Length:	1, 2, 3, 5, and 10 meters (custom lengths available)
Dimensions:	8- and 12-fiber built with 2.0 mm or 3.0 mm cable 16-fiber built with 3.5 mm cable
Cable Color:	OM3, OM4: aqua jacket OM5: lime green OS2: yellow jacket
Insertion Loss:	8, 12, and 16 fibers: 0.35 dB per mated pair

WARRANTY INFORMATION

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

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PRODUCT SPECIFICATIONS
OPT-X™ Engage Low Loss Plenum Array Cords

COLOR CODES

Cable Jackets

OM3, OM4 50/125 µm	Aqua
OM5 50/125 µm	Lime green
OS2	Yellow

Connectors

OM3, OM4 50/125 µm	Aqua
APC OM3, OM4 50/125 um	Green
OM5 50/125 µm	Lime green
OS2 APC	Yellow

Connector Boots

8-fiber	Dark gray
12-fiber	Aqua
12-fiber (OM5)	Lime green
16-fiber	Green

FIBER INSERTION LOSS PERFORMANCE (DB)

Connector Mated Pairs	MM/SM
8-fiber	0.35 max.
12-fiber	0.35 max.
16-fiber	0.35 max.

OPT-X ENGAGE LOW LOSS PLENUM ARRAY CORDS

Description	8-Fiber	12-Fiber
MPO (female) to MPO (female), Method B, OS2, 3 meter	UP8MM-B003M	UP2LL-B003M
MPO (male) to MPO (male), Method B, OS2, 3 meter	UP8NN-B003M	UP2KK-B003M
MPO (female) to MPO (female), Method B OM3, 3 meter	5L8MM-B003M	5L2LL-B003M
MPO (male) to MPO (male), Method B, OM3, 3 meter	5L8NN-B003M	5L2KK-B003M
MPO (female) to MPO (female), Method B, OM4, 3 meter	548MM-B003M	542LL-B003M
MPO (male) to MPO (male), Method B, OM4, 3 meter	548NN-B003M	542KK-B003M

Make to order! — OPT-X ENGAGE LOW LOSS PLENUM ARRAY CORDS

Fiber Type	Fiber Count	Cable Type	Termination	Cord Length (Mtr)	Polarity
• OM3 (5L) • OM4 (54) • OM5 Lime green (M5) • OS2 (UP)	• 8 • 12 • 16	• Plenum 2.0 mm (F) • Plenum 3.0 mm • Plenum 3.5 mm (P) • LSZH (Z)	**FIRST END** • 8-fiber MPO/MTP® (male) (N) • 8-fiber MPO/MTP (female) (M) • 8-fiber OM4 MPO/APC (male) (P) • 8-fiber OM4 MPO/APC (female) (G) • 12-fiber MPO/MTP (male) (K) • 12-fiber MPO/MTP (female) (L) • 16-fiber MPO/MTP (male) (T) • 16-fiber MPO/MTP (female) (S) **SECOND END** • 8-fiber MPO/MTP (male) (N) • 8-fiber MPO/MTP (female) (M) • 8-fiber OM4 MPO/APC (male) (P) • 8-fiber OM4 MPO/APC (female) (G) • 12-fiber MPO/MTP (male) (K) • 12-fiber MPO/MTP (female) (L) • 16-fiber MPO/APC (male) (T) • 16-fiber MPO/APC (female) (S)	• 1-300	• Method A (A) • Method B (B) • Method C (C)

Make to order!

For assistance customizing your pre-terminated 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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