

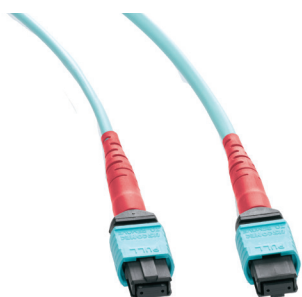
## PRODUCT SPECIFICATIONS

### OPT-X Unity Ultra Low Loss MTP Array Cords

## OPT-X™ Unity Ultra Low Loss MTP® Array Cords

### APPLICATION

OPT-X Unity Ultra Low Loss MTP Array Cords are designed to cross connect from structured cabling directly into active equipment with an MPO/MTP transceiver interface. They are also used as direct interconnect cables for point-to-point connections. 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, including arrays, trunks, cassettes, modules, harnesses, brackets, patch panels, and enclosures, shall be provided and warranted by a single manufacturer. Components with modular (8-fiber, 12-fiber, or 24-fiber) connection shall use MTP rather than MPO connectors. Multimode array cords shall meet an optical connector insertion loss not to exceed 0.20 dB for 8- and 12-fiber per mated pair. Multimode and single-mode 24-fiber array cords shall meet an optical connector insertion loss not to exceed 0.35 dB per mated pair. The cords shall be pretested with test documentation provided with each assembly.

### STANDARDS & REGULATIONS

- ISO/IEC 11801-1
- ANSI/TIA-568.3-D
- ANSI/TIA-942
- Supports data rates identified in multiple IEEE 802.3xx standards as applicable by connector type and cable grade
- 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
- Detailed Fiber Specifications in PS 0309 Data Sheet

### FEATURES

- Ultra-Low-Loss 8-, 12- and 24-fiber MTP Connectors for maximum network design flexibility
- Offered in OS2, OM3, OM4, and OM5
- 8- and 12-fiber array cords offer migration path from 10 Gb/s to 100 Gb/s and higher data rates
- Connector boots are color-coded for easy identification
- Available in 8, 12, or 24 fiber counts
- Small diameter 12-fiber 3.0 mm and 24-fiber 3.7 mm array cable for highest density
- Highest performing LSZH Euroclass B2ca, s1a, d1, a1 and Eca options to meet the requirements of the Construction Product Regulation (CPR)
- Every fiber component is factory terminated and pre-tested using automated procedures to ensure product quality
- Pre-terminated fiber eliminates the need for complicated and craft-sensitive field terminations and splices
- Fiber-on-demand manufacturing and logistics allows Leviton to deliver plug-n-play solutions with significantly reduced lead times

### DESIGN CONSIDERATIONS

- For use with Leviton MTP cassettes, adapter plates, panels, and brackets
- For use in connecting directly into QSFP, QSFP 28, QSFP-DD or OSFP transceivers
- Array cords typically have unpinned (female) connector on first end and unpinned (female) connector on second end
- Other gender configurations are available
- When plugging directly to transceivers, array cord connector should have no pins (female)
- Standard polarity ANSI/TIA is Method B. Method A and C polarities are also available
- Method B array required for Universal Polarity Cassettes
- 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.
- Array length is measured from connector to connector
- Array cords are supplied in a coil and packed in an individual bag

### WARRANTY INFORMATION

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

**PRODUCT SPECIFICATIONS**  
**OPT-X™ Unity Ultra Low Loss MTP® Array Cords**

OPT-X Unity Ultra Low Loss MTP Array Cords

**B2CA, ECA ARRAY CORDS PHYSICAL SPECIFICATIONS**

Fiber Count	CPR Rating	Nominal Outside Diameter mm (in)	Weight kg/km (lb./kft)	Max Installation Tention	Minimum Bend Radius mm (in)		Temperature Range (°C)	
					Installation	Long Term	Operating	Storage
8	B2ca, s1a, d1, a1	3.0 (0.118)	9 (6)	300	60 (2.4)	30 (1.2)	-10 °C to +60 °C	-10 °C to +60 °C
8	Eca	3.0 (0.118)	9 (6)	300	60 (2.4)	30 (1.2)		
12	B2ca, s1a, d1, a1	3.0 (0.118)	9 (6)	300	60 (2.4)	30 (1.2)		
12	Eca	3.0 (0.118)	9 (6)	300	60 (2.4)	30 (1.2)		
24	B2ca, s1a, d1, a1	3.7 (0.146)	12 (8)	600	74 (2.9)	56 (2.2)		

**ARRAY CORD LENGTH TOLERANCE**

Length (m)	Tolerance (m)
1.0 – 3.0	+0.1/-0
3.1 – 10.0	+0.2/-0
10.1 – 50.0	+0.3/-0

**FIBER INSERTION LOSS PERFORMANCE (DB)**

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

PERFORMANCE SPECIFICATIONS	MULTIMODE SYSTEM (OM3)		MULTIMODE SYSTEM (OM4)		MULTIMODE SYSTEM (OM5)		SINGLE-MODE SYSTEM (OS2)	
	850 nm	1300 nm	850 nm	1300 nm	850 nm	1300 nm	1310 nm	1550 nm
Maximum Attenuation (dB/km)	2.8	1.0	2.8	1.0	2.8	1.0	0.4	0.4

**COLOR CODES**

**Cable Jackets**

OS2	Yellow
OM3	Aqua
OM4	Heather Violet
OM5	Lime Green

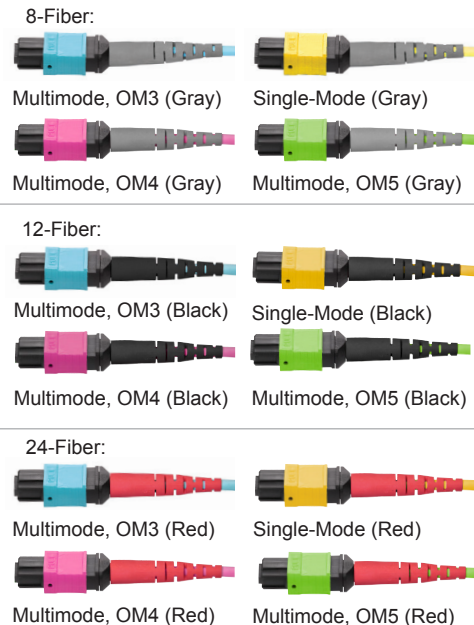
**Connectors**

OS2	Yellow
OM3	Aqua
OM4	Heather Violet
OM5	Lime Green

**MTP Connector Boots**

8-fiber	Gray
12-fiber	Black
24-fiber	Red

**Color-Coded Boots on MTP**



**PRODUCT SPECIFICATIONS**

**OPT-X™ Unity Ultra Low Loss MTP® Array Cords**



OPT-X Unity Ultra Low Loss MTP Array Cords

Description	Part Number		
	OS2	OM3	OM4
8F OPT-X Unity Array, 8F Female MTP to 8F Female MTP, Euroclass B2ca, 1.0m	ULUP8CMM-B0010-S	UL5L8CMM-B0010-S	UL548CMM-B0010-S
12F OPT-X Unity Array, 12F Female MTP to 12F Female MTP, Euroclass B2ca, 1.0m	ULUP2CLL-B0010-S	UL5L2CLL-B0010-S	UL542CLL-B0010-S
24F OPT-X Unity Array, 24F Female MTP to 24F Female MTP, Euroclass B2ca, 1.0m	ULUP4CJJ-B0010-S	UL5L4CJJ-B0010-S	UL544CJJ-B0010-S
8F OPT-X Unity Array, 8F Male MTP to 8F Male MTP, Euroclass B2ca, 1.0m	ULUP8CNN-B0010-S	UL5L8CNN-B0010-S	UL548CNN-B0010-S
12F OPT-X Unity Array, 12F Male MTP to 12F Male MTP, Euroclass B2ca, 1.0m	ULUP2CKK-B0010-S	UL5L2CKK-B0010-S	UL542CKK-B0010-S
24F OPT-X Unity Array, 24F Male MTP to 24F Male MTP, Euroclass B2ca, 1.0m	ULUP4CHH-B0010-S	UL5L4CHH-B0010-S	UL544CHH-B0010-S

Make-to-order!		OPT-X UNITY MTP ARRAY CORD OPTIONS				
Fiber Type	Fiber Count	CPR Rating	Termination		Cable Length (m)	Polarity
<ul style="list-style-type: none"> <li>OS2 (UP)</li> <li>OM3 (5L)</li> <li>OM4 (54)</li> <li>OM5 (M5)</li> </ul>	<ul style="list-style-type: none"> <li>8</li> <li>12</li> <li>24</li> </ul>	<ul style="list-style-type: none"> <li>B2ca (C)</li> <li>Eca (A)</li> </ul>	<b>FIRST END</b> <ul style="list-style-type: none"> <li>8F MTP Male (N)</li> <li>8F MTP Female (M)</li> <li>12F MTP Male (K)</li> <li>12F MTP Female (L)</li> <li>24F MTP Male (H)</li> <li>24F MTP Female (J)</li> </ul>	<b>SECOND END</b> <ul style="list-style-type: none"> <li>8-Fiber MTP Male (N)</li> <li>8-Fiber MTP Female (M)</li> <li>12-Fiber MTP Male (K)</li> <li>12-Fiber MTP Female (L)</li> <li>24-Fiber MTP Male (H)</li> <li>24-Fiber MTP Female (J)</li> </ul>	<ul style="list-style-type: none"> <li>1-50*</li> </ul>	<ul style="list-style-type: none"> <li>Method A (A)</li> <li>Method B (B)</li> <li>Method C (C)</li> </ul>



For assistance customizing your array cables, please visit [levitonemea.com/mto](http://levitonemea.com/mto) or call Tech Support at +44 (0) 1592 778494

\*Length up to 100 m available on request

For further support information, visit [leviton.com/ns/support](http://leviton.com/ns/support)

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

Page 3 of 3

**USA**  
 Network Solutions Headquarters  
 +1 (800) 722.2082  
[infoUSA@leviton.com](mailto:infoUSA@leviton.com)

Leviton Berk-Tek Cable: +1 (800) 237 5835  
[berktek.info@leviton.com](mailto:berktek.info@leviton.com)

**Asia Pacific**  
 +852 3620 2602  
[infoAPAC@leviton.com](mailto:infoAPAC@leviton.com)

**Canada**  
 +1 (800) 461 2002  
[infoCanada@leviton.com](mailto:infoCanada@leviton.com)

**Europe**  
 +44 (0) 1592 772124  
[infoEurope@leviton.com](mailto:infoEurope@leviton.com)

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

**Middle East & Africa**  
 +971 (4) 247 9800  
[infoMEA@leviton.com](mailto:infoMEA@leviton.com)

NETWORK SOLUTIONS PRODUCTS ARE AVAILABLE WORLDWIDE IN OVER 100 COUNTRIES. VISIT US ONLINE AT [LEVITON.COM/NS](http://LEVITON.COM/NS) TO LEARN MORE.