

## Plug-n-Play Pre-terminated Fiber Trunk Cables

### APPLICATION

Factory-terminated and tested fiber trunk cables connect central patching locations to zones or pods. Available terminated with both modular (MTP®) and discrete connectors, these trunks are custom built in any length to meet specific applications. An optional Pulling Eye, installed on the first end, protects fiber connectors on 12- through 144-fiber trunk cables. The Pulling Eye completely covers the breakout length, transferring any pulling force from the assembly to the pulling-eye sleeve. A high-tensile load option that attaches to Kevlar® is also available for applications of greater than 125 feet.



Pulling Eye

### SPECIFICATION

All pre-terminated components—including trunks, cassettes, harnesses, brackets, patch panels, and enclosures—shall be provided and warranted by a single manufacturer. Components with a modular (12-fiber) connection shall utilize MTP connectors. All discrete connectors (LC, SC, ST, MU) shall use ceramic ferrules and sleeves. Insertion loss for connectors shall be a maximum of 0.5 dB per mated pair for both MTP connectors as well as discrete connectors. Trunks shall be available in plenum, LSZH, and interlock armor versions. Each will be available in MTP-to-MTP, MTP-to-discrete, and discrete-to-discrete configurations in 12, 24, 36, 48, 72, 96, and 144 fiber counts in sub-units of 12 fibers each. Each will also be available in custom lengths of one-foot increments. Total trunk length shall be specified from connector to connector. A pulling eye is optional on the pulling end of all trunks to safeguard fibers during installation. Trunks shall be pre-terminated and pre-tested with test documentation available upon request.

### FEATURES

- Plug-n-play fiber eliminates the need for complicated and craft-sensitive field terminations and splices
- Every fiber component is factory terminated and pre-tested using automated procedures to ensure product quality
- All discrete connectors (LC, SC, ST, MU) are heat cured and use ceramic ferrules and sleeves for consistent performance
- Available in 12, 24, 36, 48, 72, 96, 144, or custom fiber counts
- Cable is available in indoor/outdoor-rated plenum or LSZH riser, all dielectric or interlock armor versions, depending on the application
- Fiber types include OS2 single-mode, OM2, OM3, OM4, and OM4+
- Standard breakout lengths can be staggered to ease installation
- Pulling eyes are provided as an option along with robust connector protection on both ends to safeguard fiber connectors during installation
- Trunk cables have a sturdy breakout point, yet are flexible enough to allow for smooth curving of breakout cordage without kinking or creating sharp bends

### DESIGN CONSIDERATIONS

- For use with Leviton MTP cassettes, panels, and brackets
- Standard breakout length is 38 inches; other lengths available upon request
- Total trunk length is from connector to connector
- Trunks over 125 feet long are shipped on spools, or upon request for shorter lengths
- Standard polarity is A to B for LC and SC connector types; for MTP, standard polarity is Method B; and for other polarity options see page three
- Pulling eye is typically on first-end termination, if selected. First-end breakout length must be staggered if selecting pulling eye
- Sub-units of 12 fibers are staggered 1.5 inches, if selected. First sub-unit (or 1-12 fibers) is shortest length, then second sub-unit (or 13-24 fiber), and so forth

### STANDARDS COMPLIANCE

UL riser- or plenum-rated cables meet the following standards:

- ANSI/TIA-568-C.3
- IEEE 802.3, adheres to ANSI/TIA-942 data center design guidelines

UL LSZH cables meet the following standards:

- IEC 60332-1-2
- IEC 60332-1-3
- IEC 60332-3-24 CAT.C
- IEC 60332-3-25 CAT.D
- IEC 61034-2
- IEC 61300-3-35
- IEC 61755

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

**COMPONENT SPECIFICATIONS**  
**Plug-n-Play Pre-terminated Fiber Trunk Cables**



**COUNTRY OF ORIGIN**

USA

**WARRANTY INFORMATION**

For a copy of Leviton product warranties, visit [www.leviton.com/warranty](http://www.leviton.com/warranty).

Performance Specifications									
Fiber Performance									
Fiber Type	Maximum Attenuation (db/km)				Bandwidth (MHz*km)		Transmission Distance (meters)		
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	100Mb	1GbE	10GbE
Single-mode (OS2)	N/A	N/A	0.4	0.3	N/A	N/A	>5,000 @ 1310nm		>10,000 @ 1310nm
50/125 µm MM (OM2)	3.0	1.0	N/A	N/A	950	500	300/2000 @ 850/1300nm	750/600 @ 850/1300nm	150/300 @ 850/1300nm
50/125 µm LO (10G-300m) MM (OM3)	3.0	1.0	N/A	N/A	2,000 <sup>1</sup>	500 <sup>2</sup>		1,000/600 @ 850/1300nm	300/300 @ 850/1300nm
50/125 µm LO (10G-550m) MM (OM4)	3.0	1.0	N/A	N/A	4,700 <sup>1</sup>	500 <sup>2</sup>		1,040/600 @ 850/1300nm	550/300 @ 850/1300nm
50/125 µm LO (10G-600m) MM (OM4+)	3.0	1.0	N/A	N/A	4900 <sup>1</sup>	500 <sup>2</sup>		1,210/600 @ 850/1300nm	600/300 @ 850/1300nm

<sup>1</sup> The effective modal bandwidth is determined based on an overfill launch (OFL) per ANSI/TIA-455-204, except on laser-optimized fiber types.

<sup>2</sup> 10GbE transmission @ 1,300 nm only applies to 10GBASE-LX4 (CWDM).

MDP Non-Armored Trunk Cable Physical Specifications							
Fiber Count	Nominal Outside Diameter	Weight	Max Installation Tension	Minimum Bend Radius in (cm)		Temperature Range	
	In (mm)			lbs/1000 ft (kg/km)	lbs (N)	Installation	Long Term
12	0.160 (4.1)	10 (15)	100 (445)	2.4 (6.1)	1.6 (4.1)	0° C to +75° C	-40° C to +85° C
24	0.180 (4.6)	14 (21)	200 (890)	2.7 (6.9)	1.8 (4.6)		
48	0.231 (5.9)	22 (33)	200 (890)	3.5 (8.8)	2.3 (5.9)		
72	0.275 (7.0)	33 (48)	200 (890)	4.1 (10.5)	2.8 (7.0)		
96	0.316 (8.0)	45 (66)	300 (1335)	4.7 (12.0)	3.2 (8.0)		
144	0.360 (9.1)	56 (83)	300 (1335)	5.4 (13.7)	3.6 (9.1)		

MDP Armored Trunk Cable Physical Specifications							
Fiber Count	Nominal Outside Diameter	Weight	Max Installation Tension	Minimum Bend Radius in (cm)		Temperature Range	
	In (mm)			lbs/1000 ft (kg/km)	lbs (N)	Installation	Long Term
12	0.495 (12.6)	75 (112)	50 (222)	7.4 (18.9)	5.0 (12.6)	0° C to +75° C	-40° C to +85° C
24	0.495 (12.6)	80 (119)	100 (445)	7.4 (18.9)	5.0 (12.6)		
48	0.584 (14.8)	104 (154)	300 (1334)	8.8 (22.3)	5.8 (14.8)		
72	0.594 (15.1)	114 (170)	300 (1334)	8.9 (22.6)	5.9 (15.1)		
96	0.658 (16.7)	136 (202)	600 (2670)	9.9 (25.1)	6.6 (16.7)		
144	0.708 (18.0)	157 (233)	600 (2670)	10.6 (27.0)	7.1 (18.0)		

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**COMPONENT SPECIFICATIONS**  
**Plug-n-Play Pre-terminated Fiber Trunk Cables**



Plug-n-Play Pre-terminated Fiber Trunk Cables

Color Codes	
<b>Cable Jackets</b>	
OS2 Single-mode	Yellow
OM2 Multimode (50/125 μm)	Orange
OM3/OM4 Laser-optimized multimode (50/125 μm)	Aqua
OM4+ Laser-optimized multimode (50/125 μm)	Violet
<b>Connectors</b>	
OS2 Single-mode	Blue
OS2 Single-mode, APC (angle polishing)	Green
OM2 Multimode (50/125 μm)	Beige
OM3 Laser-optimized multimode (50/125 μm)	Aqua
OM4 Laser-optimized multimode (50/125 μm), uniboot	Aqua
OM4+ Laser-optimized multimode (50/125 μm)	Aqua

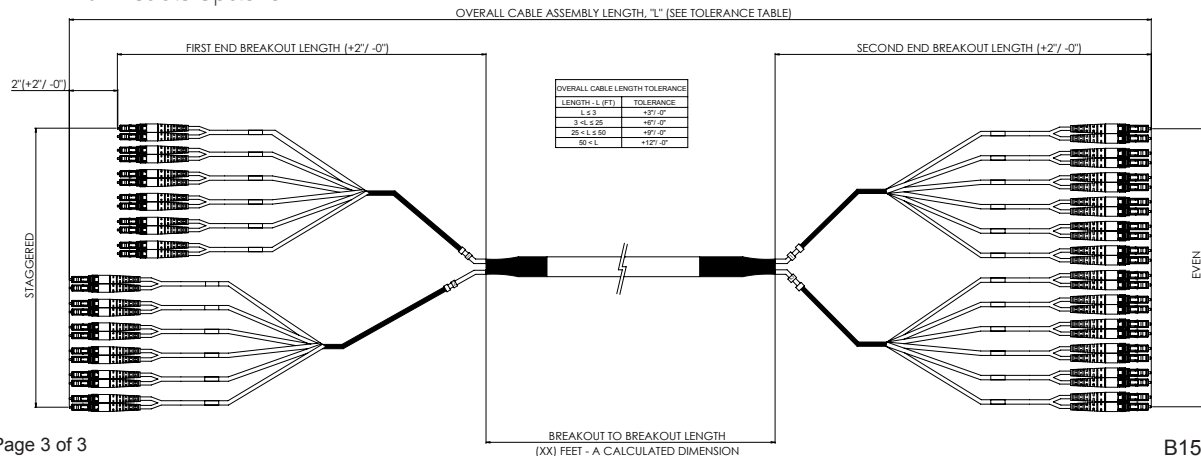
Fiber Insertion Loss Performance (dB)						
Connector Mated Pairs	Multimode			Single-mode		
	TYP IL	MAX IL	MIN RL	TYP IL	MAX IL	MIN RL
LC, MU	0.15	0.25	-25	0.15	0.25	-45 (-60 for APC)
SC, ST	0.20	0.25		0.20	0.25	
MTP	0.35	0.50		0.35	0.75	

For premium MTP® (low loss) see Opt-X® Unity Trunks.

Make to order!		PRE-TERMINATED TRUNK CABLE OPTIONS								
FIBER TYPE	CABLE TYPE	FIBER COUNT	TERMINATION (FIRST END)	TERMINATION (SECOND END)	CABLE LENGTH (FEET)	BREAKOUT LENGTH (INCHES)	BREAKOUT-LEG TYPE FIRST- & SECOND-END TERMINATION	PULLING EYE	POLARITY	LABELING
<ul style="list-style-type: none"> <li>• OM2</li> <li>• OM3</li> <li>• OM4 (aqua)</li> <li>• OM4+ (violet)</li> <li>• OS2</li> </ul>	<ul style="list-style-type: none"> <li>• Indoor/Outdoor Plenum</li> <li>• Indoor/Outdoor Plenum Armor</li> <li>• LSZH I/O Dry Loose Tube</li> <li>• Plenum Distribution</li> <li>• Riser Distribution</li> <li>• Riser Loose Tube</li> </ul>	<ul style="list-style-type: none"> <li>• 4</li> <li>• 6</li> <li>• 12</li> <li>• 24</li> <li>• 36</li> <li>• 48</li> <li>• 72</li> <li>• 96</li> <li>• 144</li> </ul>	<ul style="list-style-type: none"> <li>• LC (duplex clips)</li> <li>• LC/APC</li> <li>• LC (uniboot)</li> <li>• SC</li> <li>• SC/APC</li> <li>• ST</li> <li>• MU</li> <li>• MTP (female)</li> <li>• MTP (male)</li> </ul>	<ul style="list-style-type: none"> <li>• LC (TIA Boot Colors)</li> <li>• LC/APC</li> <li>• LC (uniboot)</li> <li>• LC (Red &amp; Black Boots)</li> <li>• SC</li> <li>• SC/APC</li> <li>• ST</li> <li>• MU</li> <li>• MTP (female)</li> <li>• MTP (male)</li> <li>• Pigtail</li> </ul>	<ul style="list-style-type: none"> <li>• 10-3280 (1km)</li> </ul>	<ul style="list-style-type: none"> <li>• 12-99 (36" is typical)</li> </ul>	<p><b>FIRST END</b></p> <ul style="list-style-type: none"> <li>• 900 μm buffered fiber (for SC, ST, LC, MU)</li> <li>• 2 mm jacketed fiber (for LC, SC, MU)</li> <li>• 3 mm jacketed fiber (for SC, ST, LC, MTP)</li> </ul> <p><b>SECOND END</b></p> <ul style="list-style-type: none"> <li>• 900 μm buffered fiber (for LC, SC, ST, MU)</li> <li>• 2 mm jacketed fiber (for LC, SC, MU)</li> <li>• 3 mm jacketed fiber (for LC, SC, ST, MTP)</li> </ul>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>	<ul style="list-style-type: none"> <li>• MTP Method A</li> <li>• MTP Method B</li> <li>• MTP Method C (Standard)</li> <li>• A-A</li> <li>• A-B (Standard)</li> </ul>	<ul style="list-style-type: none"> <li>• Standard</li> <li>• Custom</li> </ul>

For assistance customizing your trunk cables, please visit [leviton.com/configurator](http://leviton.com/configurator) or call Tech Support at 800.824.3005.

Make-to-Order  
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