

## MDP Pre-terminated Fiber Trunk Cables

### APPLICATION

Leviton factory-terminated and tested fiber trunk cables connect central patching locations to zones or pods. The innovative design of Berk-Tek Micro Data Center Plenum (MDP) cable makes it ideal for high-density cabling installations, or when being deployed in an existing cable tray that is near capacity. The compact outside diameter reduces the footprint inside cabinets, conduits, and overhead racks. The smaller diameter reduces bend radius requirements and offers fewer restrictions to airflow. 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.



MDP Cable



Pulling Eye

### SPECIFICATION

Fiber trunks shall be compatible with low-loss MTP® connectors and LC, MU, and SC fiber connectors. Trunks shall be available in plenum and plenum armor versions with fiber counts of 12, 24, 48, 72, 96, and 144. Trunk length shall be specified from connector to connector. Connector staggers and pulling eyes can be specified. All fiber trunks shall be 100% tested for insertion loss and test documentation shall be provided with every assembly.

### FEATURES

- Small outside diameter eases installation in cabinets and cable pathways
- Cable is factory terminated and 100% tested for continuity and insertion loss
- Available in plenum and plenum armor jacket material
- Available in 12, 24, 48, 72, 96, and 144 fiber counts
- Fiber types include OM3, OM4, OM4+, and OS2 bend-insensitive fiber
- Standard breakout lengths can be staggered to ease installation
- The breakout point is designed to be sturdy while maintaining a small footprint diameter
- LSZH option available
- Pulling eyes are provided as an option to protect the fiber ends during installation

### DESIGN CONSIDERATIONS

- Use with Leviton MTP cassettes, enclosures, and panels for true plug-n-play
- Total trunk length is from connector to connector
- Pulling eye is on first-end termination

### STANDARDS COMPLIANCE

- Plenum Rated
- ANSI/TIA-568-C.3
- Telcordia GR-409
- IEC 11801
- ANSI/TIA-942

### COUNTRY OF ORIGIN

USA

### WARRANTY INFORMATION

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

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Performance Specifications											
Cable Performance											
Fiber Type	Maximum Attenuation (db/km)				Bandwidth (MHz*km)		Transmission Distance (meters)				
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	100MbE	1GbE	10GbE	40/100GbE	
Single-mode (OS2)	N/A	N/A	0.4	0.3	N/A	N/A	>5,000 @ 1310nm		>10,000 @ 1310nm	10,000/40,000 @ 1310nm	
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>	300/2000 @ 850/1300nm	1,000/600 @ 850/1300nm	300/300 @ 850/1300nm	100 @ 850nm	
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	150 @ 850nm	
50/125 µm LO (10G-550m) MM (OM4+)	3.0	1.0	N/A	N/A	4,900 <sup>1</sup>	500 <sup>2</sup>		1,210/600 @ 850/1300nm	600/300 @ 850/1300nm	300 @ 850nm	

<sup>1</sup> The effective modal bandwidth as characterized by Differential Mode Delay (DMD) measurement per ANSI/TIA-455-220.

<sup>2</sup> Overfilled launch per ANSI/TIA-455-204.

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	Operating	Storage
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)		

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	Operating	Storage
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)		

Fiber Insertion Loss Performance (dB)										
Connector Mated Pairs	Multimode						Single-mode			
	Duplex Typical IL	Duplex MAX IL	12-Fiber Standard Typical IL	12-Fiber Standard Max IL	12- & 24-Fiber Premium Max IL	Return Loss Min.	Standard Typical IL	Standard Max IL	Premium Max IL	Return Loss Min.
LC	0.15	0.25	–	–	–	-25.0	0.25	0.35	–	-45.0
SC	0.20	0.25	–	–	–	-25.0	0.25	0.35	–	-45.0
MU	0.15	0.25	–	–	–	-25.0	0.25	0.35	–	-45.0
MTP	–	–	0.35	0.50	0.35	-25.0	–	0.75	0.35	-60.0 for APC



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

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	POLARITY	LABELING
<ul style="list-style-type: none"> <li>OS2</li> <li>OM3</li> <li>OM4 (aqua)</li> <li>OM4+ (violet)</li> </ul>	<ul style="list-style-type: none"> <li>MDP Plenum</li> <li>MDP Plenum Armor</li> </ul>	<ul style="list-style-type: none"> <li>12</li> <li>24</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>MU</li> <li>MTP (female)</li> <li>MTP (male)</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>MU</li> <li>MTP (female)</li> <li>MTP (male)</li> </ul>	<ul style="list-style-type: none"> <li>1-999</li> </ul>	<ul style="list-style-type: none"> <li>12-99 (38" is typical)</li> </ul>	<p><b>FIRST END</b></p> <ul style="list-style-type: none"> <li>2 mm jacketed fiber (for LC, SC, MU)</li> <li>3.6/3 mm (MTP)</li> <li>12-fiber (MTP)</li> <li>24-fiber (MTP)</li> </ul> <p><b>SECOND END</b></p> <ul style="list-style-type: none"> <li>2 mm jacketed fiber (for LC, SC, MU)</li> <li>3.6/3 mm jacketed fiber (MTP)</li> <li>12-fiber (MTP)</li> <li>24-fiber (MTP)</li> </ul>	<ul style="list-style-type: none"> <li>MTP Method A</li> <li>MTP Method B (Standard)</li> <li>MTP Method C</li> <li>LC A-A</li> <li>LC 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 Pre-Terminated Trunk Cable Options:

