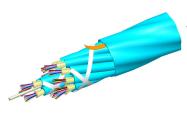
760242958 | P-144-MP-5K-F12BL



Fiber indoor cable, LazrSPEED® Plenum MPO Trunk, 144 fiber multi-unit with 12 fiber subunits, Multimode OM4, Gel-free, Feet jacket marking, Blue jacket color

Product Classification

Regional Availability	Asia Australia/New Zealand Latin America Middle East /Africa North America		
Portfolio	CommScope®		
Product Type	Fiber indoor cable		
Product Series	P-MP		
General Specifications			
Cable Type	MPO trunk cable		
Construction Type	Non-armored		
Subunit Type	Gel-free		
Jacket Color	Blue		
Jacket Marking	Feet		
Subunit, quantity	12		
Fibers per Subunit, quantity	12		
Total Fiber Count	144		
Dimensions			
Buffer Tube/Subunit Diameter	3 mm 0.118 in		
Diameter Over Jacket	14.12 mm 0.556 in		

Representative Image

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Mechanical Specifications

Minimum Bend Radius, loaded	197 mm 7.756 in	
Minimum Bend Radius, unloaded	131 mm 5.157 in	
Tensile Load, long term, maximum	400 N 89.924 lbf	
Tensile Load, short term, maximum	1335 N 300.12 lbf	
Compression	10 N/mm 57.101 lb/in	
Compression Test Method	FOTP-41 IEC 60794-1 E3	
Flex	300 cycles	
Flex Test Method	FOTP-104 IEC 60794-1 E6	
Impact	0.74 N-m 6.55 in lb	
Impact Test Method	FOTP-25 IEC 60794-1 E4	
Strain	See long and short term tensile loads	
Strain Test Method	FOTP-33 IEC 60794-1 E1	
Twist	10 cycles	
Twist Test Method	FOTP-85 IEC 60794-1 E7	
Vertical Rise, maximum	250 m 820.21 ft	
Optical Specifications		
Fiber Type	OM4, LazrSPEED® 550 OM4, LazrSPEED® 550	

Environmental Specifications

Installation temperature	0 °C to +70 °C (+32 °F to +158 °F)
Operating Temperature	0 °C to +70 °C (+32 °F to +158 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)

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760242958 | P-144-MP-5K-F12BL

Cable Qualification Standards	ANSI/ICEA S-83-596 Telcordia GR-409
Environmental Space	Plenum
Flame Test Listing	NEC OFNP (ETL) and c(ETL)
Flame Test Method	NFPA 130 NFPA 262

Environmental Test Specifications

Heat Age	0 °C to +85 °C (+32 °F to +185 °F)	
Heat Age Test Method	IEC 60794-1 F9	
Low High Bend	0 °C to +70 °C (+32 °F to +158 °F)	
Low High Bend Test Method	d Test Method FOTP-37 IEC 60794-1 E11	
Temperature Cycle	0 °C to +70 °C (+32 °F to +158 °F)	
Temperature Cycle Test Method	FOTP-3 IEC 60794-1 F1	

Packaging and Weights

Cable weight

163 kg/km | 109.531 lb/kft

Regulatory Compliance/Certifications

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

Included Products

CS-5K-MP – LazrSPEED® 550 OM4 Bend-Insensitive Multimode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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LazrSPEED® 550 OM4 Bend-Insensitive Multimode Fiber

LazrSPEED® 550

Product Classification

Portfolio	CommScope®
Product Type	Optical fiber
General Specifications	
Cladding Diameter	125 µm
Cladding Diameter Tolerance	±0.8 µm
Cladding Non-Circularity, maximum	1 %
Coating Diameter (Colored)	254 µm
Coating Diameter (Uncolored)	245 µm
Coating Diameter Tolerance (Colored)	±7 μm
Coating Diameter Tolerance (Uncolored)	±10 μm
Coating/Cladding Concentricity Error, maximum	12 µm
Core Diameter	50 µm
Core Diameter Tolerance	±2.5 µm
Core/Clad Offset, maximum	1.5 µm
Proof Test	689.476 N/mm² 100000 psi

Mechanical Specifications

Macrobending, 15 mm Ø mandrel, 2 turns	0.20 dB @ 850 nm 0.50 dB @ 1,300 nm
Macrobending, 30 mm Ø mandrel, 2 turns	0.10 dB @ 850 nm 0.30 dB @ 1,300 nm
Macrobending, 75 mm Ø mandrel, 100 turns	0.50 dB @ 1,300 nm 0.50 dB @ 850 nm
Coating Strip Force, maximum	8.9 N 2.001 lbf
Coating Strip Force, minimum	1.3 N 0.292 lbf
Dynamic Fatigue Parameter, minimum	18

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CS-5K-MP

Optical Specifications

Numerical Aperture	0.2
Numerical Aperture Tolerance	±0.015
Point Defects, maximum	0.15 dB
Zero Dispersion Slope, maximum	0.105 ps/[km-nm-nm]
Zero Dispersion Wavelength, maximum	1316 nm
Zero Dispersion Wavelength, minimum	1297 nm

Optical Specifications, Wavelength Specific

1 Gbps Ethernet Distance	1,110 m @ 850 nm 600 m @ 1,300 nm		
10 Gbps Ethernet Distance	550 m @ 850 nm		
Attenuation, maximum	1.00 dB/km @ 1,300 nm 3.00 dB/km @ 850 nm		
Backscatter Coefficient	-68.0 dB @ 850 nm -75.7 dB @ 1,300 nm		
Bandwidth, Laser, minimum	4,700 MHz-km @ 850 nm 500 MHz-km @ 1,300 nm		
Bandwidth, OFL, minimum	3,500 MHz-km @ 850 nm \mid 500 MHz-km @ 1,300 nm		
Differential Mode Delay	0.70 ps/m @ 850 nm		
Differential Mode Delay Note	Superior to ANSI/TIA TIA-492AAAF and IEC 60793-2-10 at 850		
Index of Refraction	1.479 @ 1,300 nm 1.483 @ 850 nm		
Standards Compliance	ANSI/TIA-492AAAF (OM4) IEC 60793-2-10, A1 (OM4)		

Environmental Specifications

Heat Aging, maximum	0.20 dB/km @ 85 °C
Temperature Dependence, maximum	0.1 dB/km
Temperature Humidity Cycling, maximum	0.2 dB/km
Water Immersion, maximum	0.20 dB/km @ 23 °C

Regulatory Compliance/Certifications

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

* Footnotes

Temperature Dependence, maximum	Temperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)
Temperature Humidity Cycling, maximum	Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F)

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up to 95% relative humidity

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