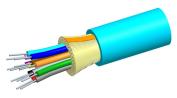
# 760255336 | L-002-DS-5X-MSUAQ/093/B1



Fiber indoor cable, Low Smoke Zero Halogen Indoor Distribution, 2 fiber single-unit, Multimode OM4, Meters jacket marking, Aqua jacket color

### Product Classification

Regional Availability	China
Portfolio	CommScope®
	Fiber indoor cable
Product Type	
Product Series	L-DS
Country Specific for	China
General Specifications	
Cable Type	Tight buffer
Jacket Color	Aqua
Jacket Marking	Meters
Strength Members	E-glass yarns
Total Fiber Count	2
Dimensions	
Buffer Tube/Subunit Diameter	0.9 mm   0.035 in
Diameter Over Jacket	5.3 mm   0.209 in
Mechanical Specifications	
Minimum Bend Radius, loaded	106 mm   4.173 in
Minimum Bend Radius, unloaded	53 mm   2.087 in
Tensile Load, long and short term	See Sag and Tension tables in Product Documentation section
Tensile Load, long term, maximum	198 N   44.512 lbf
Tensile Load, short term, maximum	660 N   148.374 lbf
Compression	10 N/mm   57.101 lb/in

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Compression Test Method	I	IEC 60794-1-2 E3
Strain		See long and short term tensile loads
Strain Test Method		IEC 60794-1-2-E1
Optical Specificat	ions	
Fiber Type		OM4
Optical Specificat	ions, Wavelength Sp	pecific
Attenuation, maximum		1.00 dB/km @ 1,300 nm   3.00 dB/km @ 850 nm
Environmental Sp	pecifications	
Installation temperature		-10 °C to +60 °C (+14 °F to +140 °F)
Operating Temperature		-20 °C to +70 °C (-4 °F to +158 °F)
Storage Temperature		-40 °C to +70 °C (-40 °F to +158 °F)
Cable Qualification Standa	ards	Telcordia GR-409
Environmental Space		Low Smoke Zero Halogen (LSZH)
Flame Test Listing		B1
Flame Test Method		GB/T 31247
Environmental Te	est Specifications	
Temperature Cycle		-20 °C to +70 °C (-4 °F to +158 °F)
Temperature Cycle Test M	lethod	IEC 60794-1-2 F1
Regulatory Comp	liance/Certifications	
Agency	Classification	
CHINA-ROHS	Below maximum concentration	value

CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



#### Included Products

CS-5X-TB-3.0/1.0/093 - OM4 Bend-Insensitive Multimode Fiber

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## \* Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable

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## CS-5X-TB-3.0/1.0/093

#### OM4 Bend-Insensitive Multimode Fiber

#### Product Classification

Portfolio	CommScope®
Product Type	Optical fiber
General Specifications	
Cladding Diameter	125 µm
Cladding Diameter Tolerance	±1.0 μm
Cladding Non-Circularity, maximum	1 %
Coating Diameter (Colored)	245 µm
Coating Diameter Tolerance (Colored)	±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/mm <sup>2</sup>   100000 psi
Tight Buffer Diameter	900 µm
Tight Buffer Diameter Tolerance	±40 µm

### 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
Optical Specifications	
Numerical Aperture	0.2
Numerical Aperture Tolerance	±0.015
Point Defects, maximum	0.15 dB

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## CS-5X-TB-3.0/1.0/093

## 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 🕴 500 MHz-km @ 1,300 nm
Differential Mode Delay	0.70 ps/m @ 850 nm   0.88 ps/m @ 1,300 nm
Differential Mode Delay Note	Superior to TIA-492AAAC and IEC 60793-2-10 at 850 nm
Index of Refraction	1.477 @ 1,300 nm   1.482 @ 850 nm
Standards Compliance	IEC 60793-2-10, type A1a.3a   IEC 60793-2-10, type A1a.3b   TIA- 492AAAD (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

## \* 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) up to 95% relative humidity

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