760252035 | 0-004-CA-5X-M04BK/28G/093



Fiber OSP cable, PE, Gel-filled Central Tube, CST, 4 fiber, Multimode OM4, Meters jacket marking, Black jacket color

Product Classification

Regional Availability	Asia Australia/New Zealand	
Portfolio	CommScope®	
Product Type	Fiber OSP cable	
Product Series	O-CA	
General Specifications		
Cable Type	Central loose tube	
Construction Type	Armored	
Subunit Type	Gel-filled	
Jacket Color	Black	
Jacket Marking	Meters	
Fibers per Subunit, quantity	4	
Total Fiber Count	4	
Dimensions		
Buffer Tube/Subunit Diameter	2.8 mm 0.11 in	
Diameter Over Jacket	9.1 mm 0.358 in	
Mechanical Specifications		
Minimum Bend Radius, loaded	182 mm 7.165 in	
Minimum Bend Radius, unloaded	91 mm 3.583 in	
Tensile Load, long term, maximum	890 N 200.08 lbf	
Tensile Load, short term, maximum	2700 N 606.984 lbf	
Compression	20 N/mm 114.203 lb/in	
Compression Test Method	IEC 60794-1-2 E3	

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Flex		25 cycles
Strain		See long and short term tensile loads
Strain Test Method		IEC 60794-1-2-E1
Optical Specifications		
Fiber Type		OM4
Optical Specifications, Wavelength Specific		
Attenuation, maximum		1.00 dB/km @ 1,300 nm 3.00 dB/km @ 850 nm
Environmental Specifications		
Installation temperature		-10 °C to +60 °C (+14 °F to +140 °F)
Operating Temperature		-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature		-40 °C to +70 °C (-40 °F to +158 °F)
Environmental Space		Buried Ducted Outdoor
Water Penetration		24 h
Water Penetration Test N	/lethod	IEC 60794-1 F5B
Environmental Test Specifications		
Temperature Cycle		-40 °C to +70 °C (-40 °F to +158 °F)
Temperature Cycle Test	Method	IEC 60794-1-2 F1
Packaging and Weights		
Cable weight		92 kg/km 61.821 lb/kft
Regulatory Compliance/Certifications		
Agency	Classification	
CHINA-ROHS	Below maximum co	oncentration value
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance	
ROHS	Compliant	
UK-ROHS	Compliant	

Included Products

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

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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CS-5X-LT-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)	255 µm
Coating Diameter (Uncolored)	245 µm
Coating Diameter Tolerance (Colored)	±10 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
Optical Specifications	
Numerical Aperture	0.2
Numerical Aperture Tolerance	±0.015
Point Defects, maximum	0.15 dB

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CS-5X-LT-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 \mid 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	1.479 @ 1,300 nm 1.483 @ 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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