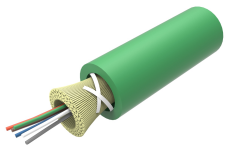
760253605 | L-006-DS-5C-MSULM/093/B1



Fiber indoor cable, Low Smoke Zero Halogen Indoor Distribution, 6 fiber single-unit, Multimode OM5, Meters jacket marking, Lime green jacket color

Product Classification

Regional Availability	China
Portfolio	CommScope®
Product Type	Fiber indoor/outdoor cable
Product Series	L-DS
Country Specific for	China

General Specifications

Cable Type	Tight buffer
Jacket Color	Lime green
Jacket Marking	Meters
Strength Members	E-glass yarns
Total Fiber Count	6

Dimensions

Buffer Tube/Subunit Diameter	0.9 mm | 0.035 in
Diameter Over Jacket	5.8 mm | 0.228 in

Mechanical Specifications

Minimum Bend Radius, loaded	116 mm | 4.567 in
Minimum Bend Radius, unloaded	58 mm | 2.283 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
Compression Test Method	IEC 60794-1-2 E3
Strain	See long and short term tensile loads
Strain Test Method	IEC 60794-1-2-E1

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Optical Specifications

Fiber Type	OM5

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	-20 °C to +70 °C (-4 °F to +158 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Cable Qualification Standards	Telcordia GR-409
Environmental Space	Low Smoke Zero Halogen (LSZH)
Flame Test Listing	B1
Flame Test Method	GB/T 31247

Environmental Test Specifications

Temperature Cycle	-20 °C to +70 °C (-4 °F to +158 °F)
Temperature Cycle Test Method	IEC 60794-1-2 F1

Regulatory Compliance/Certifications

Agency	Classification
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-5C-TB-3.0/1.0/093 – OM5 WideBand Multimode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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CS-5C-TB-3.0/1.0/093

OM5 WideBand 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	0.7 %
Coating Diameter (Colored)	250 µm
Coating Diameter (Uncolored)	242 µm
Coating Diameter Tolerance (Colored)	±7 µm
Coating Diameter Tolerance (Uncolored)	±10 µm
Coating/Cladding Concentricity Error, maximum	10 µm
Core Diameter	50 µm
Core Diameter Tolerance	±2.5 µm
Core/Clad Offset, maximum	1 µm
Proof Test	689.476 N/mm² | 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
Coating Strip Force, maximum	4.5 N | 1.012 lbf
Coating Strip Force, minimum	0.9 N | 0.202 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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Zero Dispersion Slope, maximum (OM5)	-412/(840(1-(λ0/840)^4)) ps/[km-nm-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 | 2.30 dB/km @ 953 nm | 3.00 dB/km @ 850 nm
Bandwidth, Laser, minimum	2,470 MHz-km @ 953 nm | 4,700 MHz-km @ 850 nm
Bandwidth, OFL, minimum	1,850 MHz-km @ 953 nm | 3,500 MHz-km @ 850 nm
Index of Refraction	1.477 @ 1,300 nm | 1.482 @ 850 nm
Standards Compliance	ANSI/TIA-568.3-D wideband multimode fiber cable | IEC 60793-2-10, edition 6, model A1a.4 | ISO 11801-1 cabled optical fiber performance category OM5 | TIA-492AAAE (OM5)

Environmental Specifications

Heat Aging, maximum	0.10 dB/km @ 85 °C
Temperature Dependence, maximum	0.1 dB/km
Temperature Humidity Cycling, maximum	0.1 dB/km
Water Immersion, maximum	0.10 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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