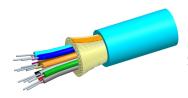
# 760255313 | L-004-DS-5Y-MSUAQ/09X/B2



Fiber indoor cable, Low Smoke Zero Halogen Indoor Distribution, 4 fiber single-unit, Multimode OM3, Meters jacket marking, Aqua jacket color

#### **Product Classification**

Regional Availability China

 Portfolio
 CommScope®

 Product Type
 Fiber indoor cable

Product Series L-DS

Country Specific for China

General Specifications

Cable TypeTight buffer

Jacket Color Aqua

Jacket Marking Meters

**Strength Members** E-glass yarns

Total Fiber Count 4

Dimensions

Buffer Tube/Subunit Diameter0.9 mm | 0.035 inDiameter Over Jacket5 mm | 0.197 in

Mechanical Specifications

Minimum Bend Radius, loaded100 mm3.937 inMinimum Bend Radius, unloaded50 mm1.969 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

Cable Crush Resistance, maximum

10 N/mm | 57.101 lb/in

Tompression

10 N/mm | 57.101 lb/in

Compression Test MethodIEC 60794-1 E3 | IEC 60794-1-2 E3StrainSee long and short term tensile loads

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# 760255313 | L-004-DS-5Y-MSUAQ/09X/B2

Strain Test Method IEC 60794-1-2-E1

Optical Specifications

Fiber Type OM3

Optical Specifications, Wavelength Specific

**Attenuation, maximum** 1.00 dB/km @ 1,300 nm | 3.00 dB/km @ 850 nm

**Environmental Specifications** 

Installation temperature $-20 \, ^{\circ}\text{C}$  to  $+60 \, ^{\circ}\text{C}$  (-4  $^{\circ}\text{F}$  to  $+140 \, ^{\circ}\text{F}$ )Operating Temperature $-20 \, ^{\circ}\text{C}$  to  $+60 \, ^{\circ}\text{C}$  (-4  $^{\circ}\text{F}$  to  $+140 \, ^{\circ}\text{F}$ )Storage Temperature $-20 \, ^{\circ}\text{C}$  to  $+60 \, ^{\circ}\text{C}$  (-4  $^{\circ}\text{F}$  to  $+140 \, ^{\circ}\text{F}$ )

Cable Qualification StandardsTelcordia GR-409

Environmental Space Low Smoke Zero Halogen (LSZH) | Low Smoke Zero Halogen (LSZH)

Flame Test Listing B2

Flame Test Method GB/T 31247

**Environmental Test Specifications** 

 Temperature Cycle
 -20 °C to +60 °C (-4 °F to +140 °F)

 Temperature Cycle Test Method
 IEC 60794-1 F1 | IEC 60794-1-2 F1

Included Products

CS-5Y-TB-3.0/1.0/093 - OM3 Bend-Insensitive Multimode Fiber

\* Footnotes

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



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

#### OM3 Bend-Insensitive Multimode Fiber

#### **Product Classification**

PortfolioCommScope®Product TypeOptical fiber

General Specifications

**Cladding Diameter** 125 µm **Cladding Diameter Tolerance** ±1.0 µm 1 % **Cladding Non-Circularity, maximum Coating Diameter (Colored)** 245 um **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  $1.5 \, \mu m$ 

**Proof Test** 689.476 N/mm<sup>2</sup> | 100000 psi

Tight Buffer Diameter900 μmTight 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, maximum8.9 N | 2.001 lbfCoating Strip Force, minimum1.3 N | 0.292 lbf

Dynamic Fatigue Parameter, minimum 18

Optical Specifications

Numerical Aperture0.2Numerical Aperture Tolerance±0.015Point Defects, maximum0.15 dB

**Zero Dispersion Slope, maximum** 0.105 ps/[km-nm-nm]



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

**Zero Dispersion Wavelength, maximum** 1316 nm **Zero Dispersion Wavelength, minimum** 1297 nm

### Optical Specifications, Wavelength Specific

**1 Gbps Ethernet Distance** 1,020 m @ 850 nm | 600 m @ 1,300 nm

**10 Gbps Ethernet Distance** 300 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
 2,000 MHz-km @ 850 nm
 | 500 MHz-km @ 1,300 nm

 Bandwidth, OFL, minimum
 1,500 MHz-km @ 850 nm
 | 500 MHz-km @ 1,300 nm

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 TIA-492AAAC (OM3)

### **Environmental Specifications**

**Heat Aging, maximum** 0.20 dB/km @ 85 °C

Temperature Dependence, maximum0.1 dB/kmTemperature Humidity Cycling, maximum0.2 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

