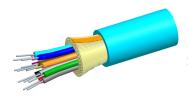
## 760255323 | L-024-DS-5X-MSUAQ/09X/B2



Fiber indoor cable, Low Smoke Zero Halogen Indoor Distribution, 24 fiber single-unit, Multimode OM4, 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 24

**Dimensions** 

Buffer Tube/Subunit Diameter0.9 mm0.035 inDiameter Over Jacket8.8 mm0.346 in

Mechanical Specifications

Minimum Bend Radius, loaded176 mm6.929 inMinimum Bend Radius, unloaded88 mm3.465 in

**Tensile Load, long and short term**See Sag and Tension tables in Product Documentation section

Tensile Load, long term, maximum400 N | 89.924 lbfTensile Load, short term, maximum1320 N | 296.748 lbfCable Crush Resistance, maximum10 N/mm | 57.101 lb/inCompression10 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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# 760255323 | L-024-DS-5X-MSUAQ/09X/B2

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  $-20 \,^{\circ}\text{C}$  to  $+60 \,^{\circ}\text{C}$  (-4 °F to +140 °F)

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

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

Cable Qualification Standards Telcordia 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

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

\* Footnotes

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

**COMMSCOPE®** 

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

#### OM4 Bend-Insensitive Multimode Fiber

#### **Product Classification**

PortfolioCommScope®Product TypeOptical fiber

General Specifications

**Cladding Diameter** 125 µm **Cladding Diameter Tolerance** ±1.0 µm Cladding Non-Circularity, maximum 1 % **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

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

Tight Buffer Diameter900 μmTight Buffer Diameter Tolerance±40 μm

Mechanical Specifications

Core/Clad Offset, maximum

 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

 $1.5 \, \mu m$ 

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 Aperture
 0.2

 Numerical Aperture Tolerance
 ±0.015

 Point Defects, maximum
 0.15 dB



## 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, 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

