760255309 | L-008-DS-8Z-MSUYL/09X/B2



Fiber indoor cable, Low Smoke Zero Halogen Indoor Distribution, 8 fiber single-unit, Singlemode G.657.A1, Meters jacket marking, Yellow 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 Yellow
Jacket Marking Meters

Strength Members E-glass yarns

Total Fiber Count 8

Dimensions

Buffer Tube/Subunit Diameter0.9 mm0.035 inDiameter Over Jacket5.8 mm0.228 in

Mechanical Specifications

Minimum Bend Radius, loaded116 mm4.567 inMinimum Bend Radius, unloaded58 mm2.283 in

Tensile Load, long and short termSee 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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Strain Test Method IEC 60794-1-2-E1

Optical Specifications

Fiber Type G.652.D and G.657.A1

Optical Specifications, Wavelength Specific

Attenuation, maximum 0.3 dB/km @ 1,550 nm | 0.3 dB/km @ 1,625 nm | 0.40 dB/km @ 1,310

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

Included Products

CS-8Z-TB-0.40/0.30/093 - Low Water Peak, Dispersion-Unshifted Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable



CS-8Z-TB-0.40/0.30/093

Low Water Peak, Dispersion-Unshifted Singlemode Fiber

Product Classification

 Portfolio
 CommScope®

 Product Type
 Optical fiber

General Specifications

 Cladding Diameter
 125 μm

 Cladding Diameter Tolerance
 ±0.7 μm

 Cladding Non-Circularity, maximum
 1 %

 Coating Diameter (Colored)
 250 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

Coating/Cladding Concentricity Error, maximum12 μmCore/Clad Offset, maximum0.5 μm

Proof Test 689.476 N/mm² | 100000 psi

Dimensions

Fiber Curl, minimum 4 m | 13.123 ft

Mechanical Specifications

 Macrobending, 20 mm Ø mandrel, 1 turn
 0.75 dB @ 1,550 nm | 1.50 dB @ 1,625 nm

 Macrobending, 30 mm Ø mandrel, 10 turns
 0.25 dB @ 1,550 nm | 1.00 dB @ 1,625 nm

Coating Strip Force, maximum8.9 N | 2.001 lbfCoating Strip Force, minimum1.3 N | 0.292 lbf

Dynamic Fatigue Parameter, minimum 20

Optical Specifications

Cabled Cutoff Wavelength, maximum1260 nmPoint Defects, maximum0.1 dB

Zero Dispersion Slope, maximum 0.092 ps/[km-nm-nm]

Zero Dispersion Wavelength, maximum 1324 nm

COMMSCOPE®

CS-8Z-TB-0.40/0.30/093

Zero Dispersion Wavelength, minimum 1300 nm

Optical Specifications, Wavelength Specific

Attenuation, maximum 0.30 dB/km @ 1,550 nm | 0.40 dB/km @ 1,310

nm | 0.40 dB/km @ 1,385 nm

Index of Refraction 1.467 @ 1,310 nm | 1.468 @ 1,550 nm | 1.468 @ 1,625

nm

Mode Field Diameter 9.0 μ m @ 1,310 nm Mode Field Diameter Tolerance $\pm 0.4 \mu$ m @ 1310 nm

Polarization Mode Dispersion Link Design Value, maximum 0.1 ps/sqrt(km)

Standards Compliance | ITU-T G.652.D | ITU-T G.657.A1 | TIA-492CAAB (OS2)

Environmental Specifications

Heat Aging, maximum 0.05 dB/km @ 85 °C

Temperature Dependence, maximum0.05 dB/kmTemperature Humidity Cycling, maximum0.05 dB/km

Water Immersion, maximum 0.05 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

