## 760250125 | N-048-DS-8Z-MMUYL/093



Fiber indoor cable, Low Smoke Zero Halogen Distribution, 48 fiber multiunit, Singlemode G.657.A1, Meters jacket marking, Yellow jacket color

#### **Product Classification**

Regional Availability

Asia | Australia/New Zealand | China

Portfolio CommScope®

Product Type Fiber indoor cable

Product Series N-DS

## General Specifications

 Cable Type
 Distribution

 Construction Type
 Non-armored

Subunit TypeGel-freeJacket ColorYellowJacket MarkingMeters

Subunit, quantity 4

Fibers per Subunit, quantity 12

Total Fiber Count 48

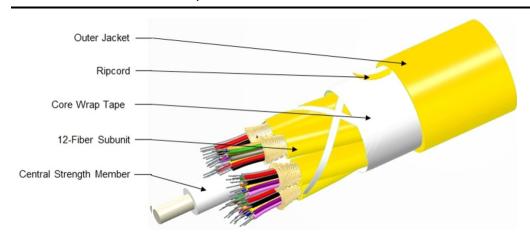
### Dimensions

Buffer Tube/Subunit Diameter6 mm | 0.236 inDiameter Over Jacket17.9 mm | 0.705 in

### Representative Image



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### Mechanical Specifications

Minimum Bend Radius, loaded358 mm14.094 inMinimum Bend Radius, unloaded179 mm7.047 inTensile Load, long term, maximum396 N89.024 lbfTensile Load, short term, maximum1320 N296.748 lbf

**Compression** 10 N/mm | 57.101 lb/in

**Compression Test Method** IEC 60794-1-21 E3

**Strain** See long and short term tensile loads

Strain Test Method IEC 60794-1-21 E1

Twist 10 cycles

**Optical Specifications** 

**Fiber Type** G.657.A1

## Optical Specifications, Wavelength Specific

**Attenuation, maximum** 0.30 dB/km @ 1,550 nm | 0.4 dB/km @ 1,310 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)

Environmental Space

Low Smoke Zero Halogen (LSZH)

Flame Test Listing NEC OFNR (UL)

COMMSC PE°

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**Flame Test Method** IEC 60332-3 | UL 1666 | UL 1685

**Environmental Test Specifications** 

**Temperature Cycle Test Method** IEC 60794-1-22 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-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 1 % **Cladding Non-Circularity, maximum Coating Diameter (Colored)** 250 um **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/Clad Offset, maximum
 0.5 μm

**Proof Test** 689.476 N/mm<sup>2</sup> | 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 Diameter9.0 μm @ 1,310 nm

 $\begin{tabular}{lll} \textbf{Mode Field Diameter Tolerance} & \pm 0.4 \ \mu m \ @ \ 1310 \ nm \end{tabular}$ 

**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

