## 760249711 | C-012-CN-8Z-M12BK/28G/093



Fiber indoor/outdoor cable, Gel-filled Central Tube, 12 fiber, Singlemode G. 652.D and G.657.A1, Meters jacket marking, Black jacket color

#### **Product Classification**

Regional Availability

Asia | Australia/New Zealand

Portfolio CommScope®

Product Type Fiber indoor/outdoor cable

**Product Series** Z-CN

### General Specifications

Cable Type Central loose tube

Construction Type Non-armored

Subunit Type Gel-filled

Jacket Color Black

Jacket Marking Meters

Fibers per Subunit, quantity 12

**Total Fiber Count** 12

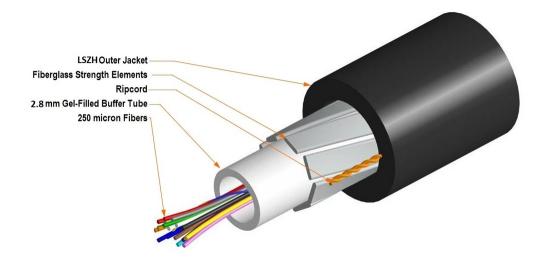
#### **Dimensions**

Buffer Tube/Subunit Diameter 2.8 mm | 0.11 in Diameter Over Jacket 7 mm | 0.276 in

### Representative Image



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### Mechanical Specifications

Minimum Bend Radius, loaded 140 mm | 5.512 in

Minimum Bend Radius, unloaded 70 mm | 2.756 in

Tensile Load, long term, maximum 800 N | 179.847 lbf

Tensile Load, short term, maximum 1800 N | 404.656 lbf

Compression 15 N/mm | 85.652 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

Optical Specifications

**Fiber Type** G.652.D and G.657.A1 | OS2

Optical Specifications, Wavelength Specific

**Attenuation, maximum** 0.22 dB/km @ 1,550 nm | 0.38 dB/km @ 1,310 nm

### **Environmental Specifications**

Installation temperature  $-10 \,^{\circ}\text{C}$  to  $+60 \,^{\circ}\text{C}$  (+14  $^{\circ}\text{F}$  to +140  $^{\circ}\text{F}$ )

Operating Temperature  $-40 \,^{\circ}\text{C}$  to  $+70 \,^{\circ}\text{C}$  (-40  $^{\circ}\text{F}$  to +158  $^{\circ}\text{F}$ )

Storage Temperature  $-40 \,^{\circ}\text{C}$  to  $+70 \,^{\circ}\text{C}$  (-40  $^{\circ}\text{F}$  to +158  $^{\circ}\text{F}$ )

Environmental Space Indoor/Outdoor | Low Smoke Zero Halogen (LSZH) | Underground (duct)

Flame Test Method IEC 60332-1

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### **Environmental Test Specifications**

**Temperature Cycle**  $-40 \,^{\circ}\text{C} \text{ to } +70 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +158 \,^{\circ}\text{F})$ 

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

Packaging and Weights

Cable weight 58 kg/km | 38.974 lb/kft

## 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-LT – Low Water Peak, Dispersion-Unshifted Singlemode

Fiber

#### \* Footnotes

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



# CS-8Z-LT

#### 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)** ±15 µm **Coating Diameter Tolerance (Uncolored)** ±10 μm Coating/Cladding Concentricity Error, maximum 12 µm

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

 $0.5 \, \mu m$ 

18

**Dimensions** 

Core/Clad Offset, maximum

**Fiber Curl, minimum** 4 m | 13.123 ft

Mechanical Specifications

Macrobending, 32 mm Ø mandrel, 1 turn0.50 dB @ 1,550 nmMacrobending, 50 mm Ø mandrel, 100 turns0.05 dB @ 1,550 nmCoating Strip Force, maximum8.9 N | 2.001 lbfCoating Strip Force, minimum1.3 N | 0.292 lbf

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-LT

Zero Dispersion Wavelength, minimum

1300 nm

Optical Specifications, Wavelength Specific

**Attenuation, maximum** 0.25 dB/km @ 1,550 nm | 0.35 dB/km @ 1,310

nm | 0.35 dB/km @ 1,385 nm

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

**Mode Field Diameter** 10.4 µm @ 1,550 nm | 9.2 µm @ 1,310 nm | 9.6 µm @

1,385 nm

Mode Field Diameter Tolerance  $\pm 0.4 \, \mu \text{m}$  @ 1310 nm  $\mid \pm 0.5 \, \mu \text{m}$  @ 1550 nm  $\mid \pm 0.6 \, \mu \text{m}$ 

@ 1385 nm

**Polarization Mode Dispersion Link Design Value, maximum** 0.08 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

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



#### \* 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

