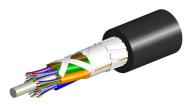
# 760251960 | C-024-LN-8Z-M06BK/18G/093



Fiber indoor/outdoor cable, Loose Tube Gel-filled, 24 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** C-LN

General Specifications

Cable Type Stranded loose tube

Construction Type Non-armored

**Subunit Type** Gel-filled

Jacket Color Black

Jacket Marking Meters

Fibers per Subunit, quantity 6

**Total Fiber Count** 24

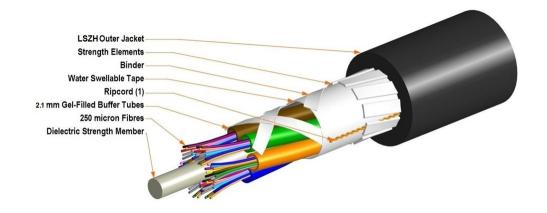
Dimensions

Buffer Tube/Subunit Diameter 1.8 mm | 0.071 in Diameter Over Jacket 10 mm | 0.394 in

Representative Image



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## Mechanical Specifications

Minimum Bend Radius, loaded200 mm | 7.874 inMinimum Bend Radius, unloaded100 mm | 3.937 inTensile Load, long term, maximum890 N | 200.08 lbfTensile Load, short term, maximum2700 N | 606.984 lbfCompression10 N/mm | 57.101 lb/in

**Compression Test Method** IEC 60794-1-2 E3

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

Strain Test Method IEC 60794-1-21 E1

Optical Specifications

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

Optical Specifications, Wavelength Specific

**Attenuation, maximum** 0.30 dB/km @ 1,550 nm | 0.40 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 Buried | Ducted | Indoor/Outdoor | Low Smoke Zero Halogen (LSZH)

Flame Test Method IEC 60332-1

Water Penetration 24 h

**Water Penetration Test Method** IEC 60794-1 F5C

COMMSC PE°

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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** 107 kg/km | 71.901 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  $\mu$ m

Cladding Diameter Tolerance  $\pm 0.7 \, \mu$ m

Cladding Non-Circularity, maximum 1 %

Coating Diameter (Colored) 250  $\mu$ m

Coating Diameter (Uncolored) 245  $\mu$ m

Coating Diameter Tolerance (Colored)  $\pm 15 \, \mu$ m

Coating Diameter Tolerance (Uncolored)  $\pm 10 \, \mu$ m

Coating/Cladding Concentricity Error, maximum 12 µm

**Core/Clad Offset, maximum** 0.5 μm

**Proof Tensile Stress** 100,000 psi (0.69 GPa)

**Dimensions** 

**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

Dynamic Fatigue Parameter, minimum 18

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**  $\pm 0.4 \, \mu \text{m} \ @ \ 1310 \, \text{nm} \ | \ \pm 0.5 \, \mu \text{m} \ @ \ 1550 \, \text{nm} \ | \ \pm 0.6 \, \mu \text{m}$ 

@ 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, maximum
 0.05 dB/km

 Temperature Humidity Cycling, maximum
 0.05 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

