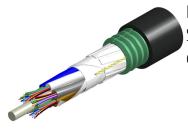
## 760251971 | C-144-LA-8Z-M12BK/22G/093



Fiber indoor/outdoor cable, loose tube gel-filled CST, 144 fiber, Singlemode G.652.D and G.657.Al, 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-LA

### General Specifications

Armor Type Corrugated steel

Cable Type Stranded loose tube

Construction TypeArmoredSubunit TypeGel-filledJacket ColorBlackJacket MarkingMetersSubunit, quantity12Fibers per Subunit, quantity12

**Dimensions** 

**Total Fiber Count** 

Buffer Tube/Subunit Diameter 2.2 mm | 0.087 in

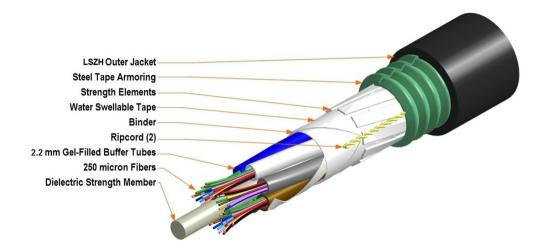
Diameter Over Jacket 16.6 mm | 0.654 in

### Representative Image



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## 760251971 | C-144-LA-8Z-M12BK/22G/093



### Mechanical Specifications

Minimum Bend Radius, loaded332 mm | 13.071 inMinimum Bend Radius, unloaded166 mm | 6.535 inTensile Load, short term, maximum2000 N | 449.618 lbfCompression15 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 60794-1-21 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 | 0.36 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 | IEC 60332-3-24 | IEC 60754-2 | IEC 61034-2

Water Penetration 24 h

**Water Penetration Test Method** IEC 60794-1 F5B

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### **Environmental Test Specifications**

**Temperature Cycle** -40 °C to +70 °C (-40 °F to +158 °F)

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

Packaging and Weights

**Cable weight** 301 kg/km | 202.263 lb/kft

#### 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

**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



### 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, 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

