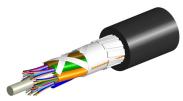
# 860646631/DB | 0-144-LN-8G-M12NS/20G/BK



Fiber OSP cable, LightScope® ZWP Mini Single Jacket, All-Dielectric, 144 fiber, Gel-Filled, Stranded Loose Tube, Singlemode G.657.A2, Meters jacket marking, Black jacket color

#### **Product Classification**

Regional Availability EMEA

 Portfolio
 CommScope®

 Product Type
 Fiber OSP cable

Product Series O-LN

General Specifications

Cable Type Stranded loose tube

Construction Type Non-armored

**Subunit Type** Gel-filled

Jacket Color Black
Jacket Marking Meters

Jacket Marking Method Inkjet

Jacket Marking Text COMMSCOPE GB OPTICAL CABLE TYPE G657A2 SM 144 FIBER [SERIAL NUMBER] [MM

/YYYY] [METRE MARK]

Subunit, quantity 12

Fibers per Subunit, quantity 12

**Total Fiber Count** 144

Dimensions

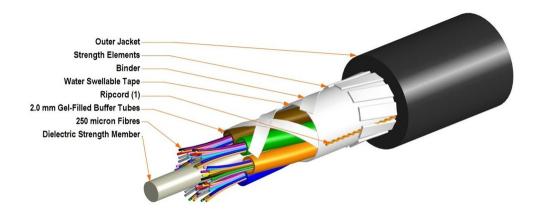
**Buffer Tube/Subunit Diameter** 2 mm | 0.079 in

**Diameter Over Jacket** 13.3 mm | 0.524 in

Representative Image



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### Material Specifications

Jacket Material PE

### Mechanical Specifications

Minimum Bend Radius, loaded200 mm | 7.874 inMinimum Bend Radius, unloaded133 mm | 5.236 inTensile Load, long term, maximum800 N | 179.847 lbfTensile Load, short term, maximum2700 N | 606.984 lbfCompression22 N/mm | 125.623 lb/in

Compression 22 N/11111 | 120.020 10/

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

Flex 25 cycles

Flex Test Method IEC 60794-1 E6

**Impact** 4.41 N-m | 39.032 in lb

Impact Test Method IEC 60794-1 E4

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

Strain Test Method IEC 60794-1 E1

Twist 10 cycles

Twist Test Method IEC 60794-1 E7

**Vertical Rise, maximum** 594 m | 1,948.819 ft

Optical Specifications

**Fiber Type** G.657.A2 | G.657.A2, TeraSPEED®

### **Environmental Specifications**



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ANSI/ICEA S-87-640 | EN 187105 | IEC 60794-1-2

Installation temperature  $-30 \,^{\circ}\text{C}$  to  $+70 \,^{\circ}\text{C}$  (-22  $^{\circ}\text{F}$  to  $+158 \,^{\circ}\text{F}$ )

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  $+75 \,^{\circ}\text{C}$  (-40  $^{\circ}\text{F}$  to  $+167 \,^{\circ}\text{F}$ )

Storage reinperature 40 0 to 170 0 (40 1 to 1107 1)

Environmental Space Aerial, lashed | Buried

Jacket UV Resistance UV stabilized

Water Penetration 24 h

**Cable Qualification Standards** 

**Water Penetration Test Method** IEC 60794-1 F5

### **Environmental Test Specifications**

 Cable Freeze
 -2 °C | 28.4 °F

 Cable Freeze Test Method
 IEC 60794-1 F15

 Drip
 70 °C | 158 °F

**Drip Test Method** IEC 60794-1 E14

**Heat Age**  $-40 \,^{\circ}\text{C} \text{ to } +85 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +185 \,^{\circ}\text{F})$ 

**Heat Age Test Method** IEC 60794-1 F9

**Low High Bend** -30 °C to +60 °C (-22 °F to +140 °F)

**Low High Bend Test Method** IEC 60794-1 E11

**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 F1

Packaging and Weights

**Cable weight** 138 kg/km | 92.732 lb/kft

## Regulatory Compliance/Certifications

Agency Classification

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

#### Included Products

CS-8G-LT – Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T

G.657.A2, B2)

#### \* Footnotes

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

**COMMSCOPE®**