# 860646623/DB | 0-096-LN-8W-M12BK/20G



Fiber OSP cable, LightScope ZWP® Mini Single Jacket All-Dielectric, 96 fiber, Gel-Filled, Stranded Loose Tube, Singlemode G.652.D and G.657.Al, Feet jacket marking, Black jacket color

### **Product Classification**

Regional Availability EMEA

 Portfolio
 CommScope®

 Product Type
 Fiber OSP cable

Product Series O-LN

General Specifications

Cable TypeStranded loose tube

Construction Type Non-armored

Jacket Color Black
Jacket Marking Meters

Jacket Marking Method Inkjet

Jacket Marking Text COMMSCOPE GB OPTICAL CABLE TYPE OS2 SM 96 FIBER [SERIAL NUMBER] [MM/YYYY]

[METRE MARK]

96

Gel-filled

Subunit, quantity8Fibers per Subunit, quantity12

Dimensions

**Total Fiber Count** 

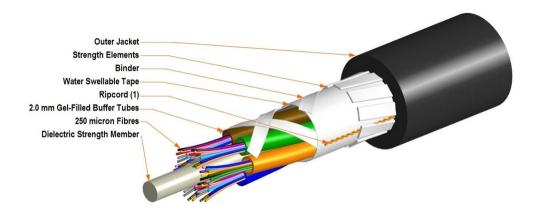
**Subunit Type** 

Buffer Tube/Subunit Diameter2 mm | 0.079 inDiameter Over Jacket10.5 mm | 0.413 in

Representative Image



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## Material Specifications

Jacket Material PE

## Mechanical Specifications

Minimum Bend Radius, loaded158 mm | 6.22 inMinimum Bend Radius, unloaded105 mm | 4.134 inTensile Load, long term, maximum800 N | 179.847 lbfTensile Load, short term, maximum2700 N | 606.984 lbfCompression22 N/mm | 125.623 lb/in

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

Flex 25 cycles

Flex Test Method IEC 60794-1 E6

**Impact** 2.94 N-m | 26.021 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** 946 m | 3,103.675 ft

Optical Specifications

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

### **Environmental Specifications**



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

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

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

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

**Environmental Space** Aerial, lashed | Buried

Jacket UV Resistance UV stabilized

Water Penetration 24 h

**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

Drip rest method

**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**  $-40 \,^{\circ}\text{C}$  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 86 kg/km | 57.789 lb/kft

## Regulatory Compliance/Certifications

Agency Classification

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

### Included Products

CS-8W-250-EMEA – LightScope ZWP® Singlemode Fiber 250um

#### \* Footnotes

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

**COMMSCOPE®**