

Fiber OSP cable, LightScope ZWP® Mini Single Jacket, All-Dielectric, 144 fiber, Gel-Filled, Stranded Loose Tube, Singlemode G.652.D and G.657.Al, 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 TypeNon-armoredSubunit TypeGel-filled

Jacket Color Black

Jacket Marking Method Inkjet

Jacket Marking Text COMMSCOPE GB OPTICAL CABLE TYPE OS2 SM 144 FIBER [SERIAL NUMBER] [MM

/YYYY] [METRE MARK]

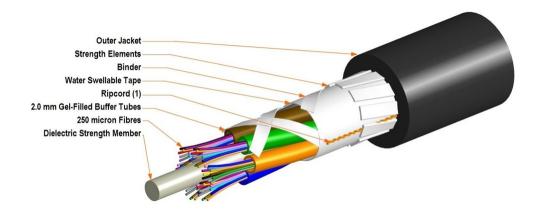
Subunit, quantity 12
Fibers per Subunit, quantity 12
Total Fiber Count 144

Dimensions

Buffer Tube/Subunit Diameter2 mm | 0.079 inDiameter Over Jacket13.5 mm | 0.531 in

## Representative Image





### 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 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.652.D and G.657.A1 | G.652.D and G.657.A1

### **Environmental Specifications**



Installation temperature  $-10 \,^{\circ}\text{C}$  to  $+50 \,^{\circ}\text{C}$  (+14  $^{\circ}\text{F}$  to +122  $^{\circ}\text{F}$ )

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  $^{\circ}\text{F}$ )

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 Penentration 24 h

**Water Penentration 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 °C to +85 °C (-40 °F to +185 °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

CHINA-ROHS Below maximum concentration value

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

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



#### Included Products

COMMSCOPE®

DB-8W-LT – LightScope ZWP® Singlemode Fiber

#### \* Footnotes

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

