

Fiber OSP cable, LightScope® ZWP Blown Micro Single Jacket, 144 fiber, All-Dielectric Stranded Loose Tube Arid-Core™ Construction, Gel-filled, Singlemode G.652.D and G.657.Al, Meters jacket marking, Black jacket color

#### **Product Classification**

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America

PortfolioCommScope®Product TypeFiber OSP cable

**Product Series** B-LN

General Specifications

Cable Type Stranded loose tube

Construction TypeNon-armoredSubunit TypeGel-filled

Filler, quantity 0

Jacket ColorBlackJacket MarkingMetersJacket Marking MethodLaser

Jacket Marking Text COMMSCOPE OPTICAL CABLE OS2 SM 144F (SERIAL NUMBER) MM/YYYY

XXXXXXXM

Subunit, quantity 12

Fibers per Subunit, quantity 12

Total Fiber Count 144

**Dimensions** 

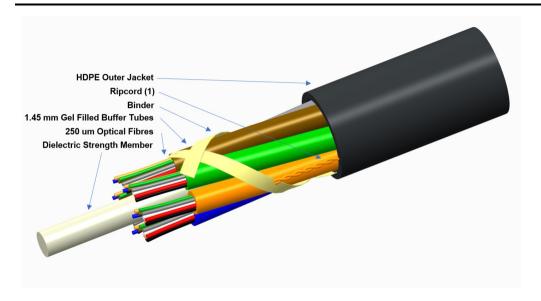
Buffer Tube/Subunit Diameter1.45 mm0.057 inDiameter Over Jacket8.4 mm0.331 in

Representative Image



469 N | 105.435 lbf

10 cycles



## Material Specifications

Tensile Load, long term, maximum

**Jacket Material** High density polyethylene (HDPE)

## Mechanical Specifications

Minimum Bend Radius, loaded 126 mm | 4.961 in

Minimum Bend Radius, unloaded 84 mm | 3.307 in

Tensile Load, short term, maximum 1566 N | 352.051 lbf

Compression 10 N/mm | 57.101 lb/in

**Compression Test Method** IEC 60794-1-21 E3

Flex 25 cycles

Flex Test Method IEC 60794-1 E6

**Impact** 0.3 N-m | 2.655 in lb IEC 60794-1-21 E4 **Impact Test Method** 

Strain See long and short term tensile loads

**Strain Test Method** IEC 60794-1-21 E1

**Twist** 

**Twist Test Method** IEC 60794-1-21 E7

Vertical Rise, maximum 769 m | 2,522.966 ft

**Optical Specifications** 

Page 2 of 4



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

## **Environmental Specifications**

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

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

Storage Temperature  $-30 \,^{\circ}\text{C}$  to  $+75 \,^{\circ}\text{C}$  (-22  $^{\circ}\text{F}$  to  $+167 \,^{\circ}\text{F}$ )

Cable Qualification StandardsIEC 60794-5-10Environmental SpaceAir-blown, microduct

Jacket UV Resistance UV stabilized

Water Penetration 24 h

Water Penetration Test Method IEC 60794-1 F4

### **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 60794-1-21 E14

-30 °C to +85 °C (-22 °F to +185 °F)

Heat Age Test Method IEC 60794-1-22 F9

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

**Low High Bend Test Method** IEC 60794-1-21 E11

**Temperature Cycle**  $-30 \,^{\circ}\text{C to} + 70 \,^{\circ}\text{C} \left(-22 \,^{\circ}\text{F to} + 158 \,^{\circ}\text{F}\right)$ 

**Temperature Cycle Test Method** IEC 60794-1-22 F1

Packaging and Weights

**Cable weight** 63 kg/km | 42.334 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

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

### \* Footnotes

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

