

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 | North America

Gel-filled

Portfolio CommScope®
Product Type Fiber OSP cable

Product Series B-LN

General Specifications

Cable TypeStranded loose tube

Construction Type Non-armored

Filler, quantity 0

Jacket Color Black

Jacket Marking Meters

Jacket Marking Method Laser

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

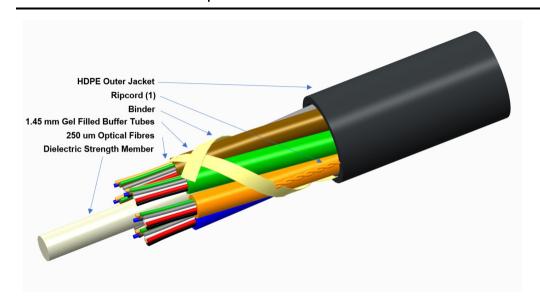
Dimensions

Subunit Type

Buffer Tube/Subunit Diameter1.45 mm | 0.057 inDiameter Over Jacket8.4 mm | 0.331 in

Representative Image





Material Specifications

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, long term, maximum 469 N | 105.435 lbf

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

Impact Test Method IEC 60794-1-21 E4

Strain See long and short term tensile loads

Strain Test Method IEC 60794-1-21 E1

Twist 10 cycles

Twist Test Method IEC 60794-1-21 E7

Vertical Rise, maximum 769 m | 2,522.966 ft

Optical Specifications



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 Standards IEC 60794-5-10

Environmental Space Air-blown, microduct

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 60794-1-21 E14

Heat Age -30 °C to +85 °C (-22 °F to +185 °F)

Heat Age Test Method IEC 60794-1-22 F9

Low High Bend $-30 \,^{\circ}\text{C}$ to $+60 \,^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to $+140 \,^{\circ}\text{F}$)

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

Temperature Cycle -30 °C to +70 °C (-22 °F to +158 °F)

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



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Included Products

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

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

