

Fiber indoor/outdoor cable, LightScope ZWP®, Mini Single Jacket, All-Dielectric, Low Smoke Zero Halogen (LSZH), Singlemode G.652.D and G. 657.Al, 6 fiber, Gel-Filled, Stranded Loose Tube, Feet jacket marking, Black jacket color, Dca flame rating

#### **Product Classification**

Regional Availability EMEA

Portfolio CommScope®

Product Type Fiber indoor/outdoor cable

Product Series C-LN

General Specifications

Cable Type Stranded loose tube

Construction Type Non-armored

Subunit Type Gel-filled

Filler, quantity 5

Jacket ColorBlackJacket MarkingMeters

Jacket Marking Method Inkjet

Jacket Marking Text COMMSCOPE GB OPTICAL CABLE OS2 SM 6 FIBER EN50575 CLASS D

[SERIAL NUMBER] [MM/YY] [METRE MARK]

Subunit, quantity 1

Fibers per Subunit, quantity 6

**Total Fiber Count** 6

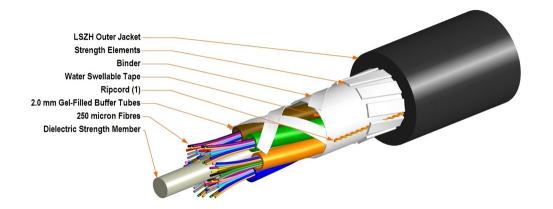
Dimensions

Buffer Tube/Subunit Diameter 2 mm | 0.079 in

Diameter Over Jacket 11 mm | 0.433 in

Representative Image





### Mechanical Specifications

Minimum Bend Radius, loaded 165 mm | 6.496 in

Minimum Bend Radius, unloaded 110 mm | 4.331 in Tensile Load, long term, maximum 800 N | 179.847 lbf

Tensile Load, short term, maximum 2700 N | 606.984 lbf

**Compression** 22 N/mm | 125.623 lb/in

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

Flex 25 cycles

Flex Test Method IEC 60794-1 E6

**Impact** 10 N-m | 88.507 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** 643 m | 2,109.58 ft

**Optical Specifications** 

Fiber Type G.652.D and G.657.A1, TeraSPEED® | OS2 | OS2

## **Environmental Specifications**

Installation temperature  $-30 \,^{\circ}\text{C}$  to  $+60 \,^{\circ}\text{C}$  (-22  $^{\circ}\text{F}$  to  $+140 \,^{\circ}\text{F}$ )

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

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Storage Temperature -40 °C to +75 °C (-40 °F to +167 °F)

Cable Qualification StandardsEN 187105I EC 60794-1-2

EN50575 CPR Cable EuroClass Fire PerformanceDcaEN50575 CPR Cable EuroClass Smoke Ratings1aEN50575 CPR Cable EuroClass Droplets Ratingd0EN50575 CPR Cable EuroClass Acidity Ratinga1

Environmental Space Aerial, lashed | Buried | Low Smoke Zero Halogen (LSZH)

Flame Test Method | IEC 60332-1-2 | IEC 60754-2 | IEC 61034-2

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**  $-40 \,^{\circ}\text{C}$  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
 127 kg/km | 85.34 lb/kft

## Regulatory Compliance/Certifications

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
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

