



Fiber OSP cable, LightScope ZWP® Single Jacket All-Dielectric, 12 fiber, Gel-Free, Stranded Loose Tube, Singlemode G.652.D and G.657.A1, Meters jacket marking, Black jacket color

## Product Classification

|                              |   |
|------------------------------|---|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   EMEA   Latin America   North America |
| <b>Portfolio</b>             | CommScope®  |
| <b>Product Type</b>          | Fiber OSP cable   |
| <b>Product Series</b>        | D-LN  |

## General Specifications

|                                     |                     |
|-------------------------------------|---------------------|
| <b>Cable Type</b>                   | Stranded loose tube |
| <b>Construction Type</b>            | Non-armored         |
| <b>Subunit Type</b>                 | Gel-free            |
| <b>Filler, quantity</b>             | 4                   |
| <b>Jacket Color</b>                 | Black               |
| <b>Jacket Marking</b>               | Meters              |
| <b>Subunit, quantity</b>            | 1                   |
| <b>Fibers per Subunit, quantity</b> | 12                  |
| <b>Total Fiber Count</b>            | 12                  |

## Dimensions

|                                     |                        |
|-------------------------------------|------------------------|
| <b>Cable Length</b>                 | 6000 m   19,685.039 ft |
| <b>Buffer Tube/Subunit Diameter</b> | 2.5 mm   0.098 in      |
| <b>Diameter Over Jacket</b>         | 10.2 mm   0.402 in     |

## Representative Image



## Material Specifications

**Jacket Material** PE

## Mechanical Specifications

**Minimum Bend Radius, loaded** 153 mm | 6.024 in

**Minimum Bend Radius, unloaded** 102 mm | 4.016 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** FOTP-41 | IEC 60794-1 E3

**Flex** 25 cycles

**Flex Test Method** FOTP-104 | IEC 60794-1 E6

**Impact** 4.41 N-m | 39.032 in lb

**Impact Test Method** FOTP-25 | IEC 60794-1 E4

**Strain** See long and short term tensile loads

**Strain Test Method** FOTP-33 | IEC 60794-1 E1

**Twist** 10 cycles

**Twist Test Method** FOTP-85 | IEC 60794-1 E7

**Vertical Rise, maximum** 1307 m | 4,288.058 ft

## Optical Specifications

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

## Environmental Specifications

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Installation temperature</b>      | -30 °C to +70 °C (-22 °F to +158 °F) |
| <b>Operating Temperature</b>         | -40 °C to +70 °C (-40 °F to +158 °F) |
| <b>Storage Temperature</b>           | -40 °C to +75 °C (-40 °F to +167 °F) |
| <b>Cable Qualification Standards</b> | ANSI/ICEA S-87-640   EN 187105       |
| <b>Environmental Space</b>           | Aerial, lashed   Buried              |
| <b>Jacket UV Resistance</b>          | UV stabilized                        |
| <b>Water Penetration</b>             | 24 h                                 |
| <b>Water Penetration Test Method</b> | FOTP-82   IEC 60794-1 F5             |

## Environmental Test Specifications

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Cable Freeze</b>                  | -2 °C   28.4 °F                      |
| <b>Cable Freeze Test Method</b>      | FOTP-98   IEC 60794-1 F15            |
| <b>Heat Age</b>                      | -40 °C to +85 °C (-40 °F to +185 °F) |
| <b>Heat Age Test Method</b>          | IEC 60794-1 F9                       |
| <b>Low High Bend</b>                 | -30 °C to +60 °C (-22 °F to +140 °F) |
| <b>Low High Bend Test Method</b>     | FOTP-37   IEC 60794-1 E11            |
| <b>Temperature Cycle</b>             | -40 °C to +70 °C (-40 °F to +158 °F) |
| <b>Temperature Cycle Test Method</b> | FOTP-3   IEC 60794-1 F1              |

## Packaging and Weights

|                     |                          |
|---------------------|--------------------------|
| <b>Cable weight</b> | 63 kg/km   42.334 lb/kft |
|---------------------|--------------------------|

## Included Products

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

## \* Footnotes

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