

Fiber indoor/outdoor cable, LightScope ZWP® High Tensile Strength, LSZH, Singlemode G.652.D and G.657.A1, 2 fiber, Mini All-Dielectric Single Jacket, Gel-Filled, Stranded Loose Tube, Black jacket color, Dca flame rating, Provides Rodent Resistance

## Product Classification

|                              |                                     |
|------------------------------|-------------------------------------|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   EMEA |
| <b>Portfolio</b>             | CommScope®                          |
| <b>Product Type</b>          | Fiber indoor/outdoor cable          |
| <b>Product Series</b>        | C-LN                                |

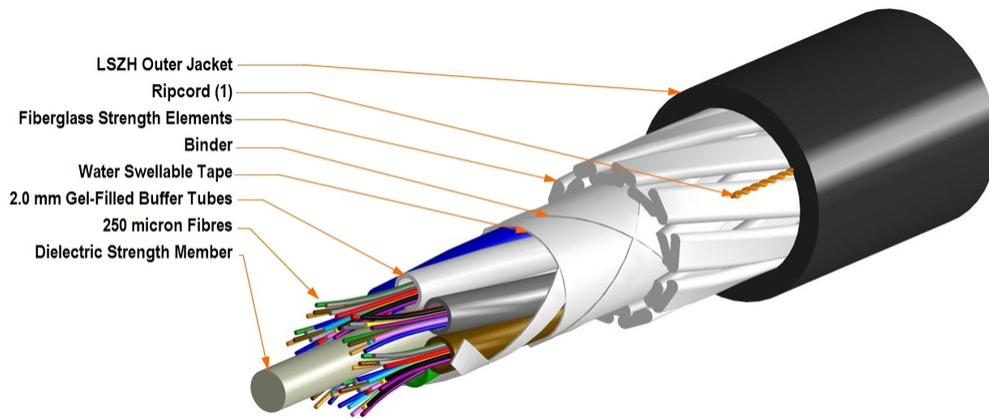
## General Specifications

|                                     |  |
|-------------------------------------|--|
| <b>Cable Type</b>                   | Stranded loose tube  |
| <b>Subunit Type</b>                 | Gel-filled   |
| <b>Filler, quantity</b>             | 5  |
| <b>Jacket Color</b>                 | Black  |
| <b>Jacket Marking</b>               | Meters   |
| <b>Jacket Marking Method</b>        | Inkjet   |
| <b>Jacket Marking Text</b>          | COMMScope GB OPTICAL CABLE 810009761 /DB 2x OS2 SM LSZH EN50575 CLASS D [SERIAL NUMBER] [METER MARK] |
| <b>Subunit, quantity</b>            | 1  |
| <b>Fibers per Subunit, quantity</b> | 2  |
| <b>Total Fiber Count</b>            | 2  |

## Dimensions

|                                     |                    |
|-------------------------------------|--------------------|
| <b>Buffer Tube/Subunit Diameter</b> | 2 mm   0.079 in    |
| <b>Diameter Over Jacket</b>         | 12.8 mm   0.504 in |

## Representative Image



## Mechanical Specifications

|  |                                       |
|--|---------------------------------------|
| <b>Minimum Bend Radius, loaded</b>       | 193 mm   7.598 in                     |
| <b>Minimum Bend Radius, unloaded</b>     | 128 mm   5.039 in                     |
| <b>Tensile Load, long term, maximum</b>  | 1334 N   299.895 lbf                  |
| <b>Tensile Load, short term, maximum</b> | 4448 N   999.95 lbf                   |
| <b>Compression</b>                       | 22 N/mm   125.623 lb/in               |
| <b>Compression Test Method</b>           | IEC 60794-1 E3                        |
| <b>Flex</b>                              | 25 cycles                             |
| <b>Flex Test Method</b>                  | IEC 60794-1 E6                        |
| <b>Impact Test Method</b>                | IEC 60794-1 E4                        |
| <b>Strain</b>                            | See long and short term tensile loads |
| <b>Strain Test Method</b>                | IEC 60794-1 E1                        |
| <b>Twist</b>                             | 10 cycles                             |
| <b>Twist Test Method</b>                 | IEC 60794-1 E7                        |
| <b>Vertical Rise, maximum</b>            | 816 m   2,677.165 ft                  |

## Optical Specifications

|                   |  |
|-------------------|--|
| <b>Fiber Type</b> | G.652.D and G.657.A1, TeraSPEED®   OS2 |
|-------------------|--|

## Environmental Specifications

|                                 |                                      |
|---------------------------------|--------------------------------------|
| <b>Installation temperature</b> | -30 °C to +60 °C (-22 °F to +140 °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>                | EN 187105   IEC 60794-1-2                               |
| <b>EN50575 CPR Cable EuroClass Fire Performance</b> | Dca   |
| <b>EN50575 CPR Cable EuroClass Smoke Rating</b>     | s2  |
| <b>EN50575 CPR Cable EuroClass Droplets Rating</b>  | d0  |
| <b>EN50575 CPR Cable EuroClass Acidity Rating</b>   | a1  |
| <b>Environmental Space</b>                          | Aerial, lashed   Buried   Low Smoke Zero Halogen (LSZH) |
| <b>Flame Test Method</b>                            | IEC 60332-1-2   IEC 60754-2   IEC 61034-2               |
| <b>Jacket UV Resistance</b>                         | UV stabilized   |
| <b>Water Penetration</b>                            | 24 h  |
| <b>Water Penetration Test Method</b>                | IEC 60794-1 F5  |

## Environmental Test Specifications

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Cable Freeze</b>                  | -2 °C   28.4 °F                      |
| <b>Cable Freeze Test Method</b>      | 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>     | IEC 60794-1 E11                      |
| <b>Temperature Cycle</b>             | -40 °C to +70 °C (-40 °F to +158 °F) |
| <b>Temperature Cycle Test Method</b> | IEC 60794-1 F1                       |

## Packaging and Weights

|                     |                            |
|---------------------|----------------------------|
| <b>Cable weight</b> | 167 kg/km   112.219 lb/kft |
|---------------------|----------------------------|

## Included Products

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

## \* Footnotes

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