



Fiber indoor/outdoor cable, LightSCOPE ZWP®, Single Jacket All-Dielectric, LSZH, 144 fiber, Gel-Free, Stranded Loose Tube, Singlemode G.652.D and G.657.A1, Meters jacket marking, Black jacket color, Eca flame rating

## Product Classification

|                              |   |
|------------------------------|---|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   EMEA   Latin America   North America |
| <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>Construction Type</b>            | Non-armored  |
| <b>Subunit Type</b>                 | Gel-free   |
| <b>Filler, quantity</b>             | 0  |
| <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 OS2 SM 72 FIBER EN50575 CLASS E [SERIAL NUMBER] [MM /YY] [METRE MARK] |
| <b>Subunit, quantity</b>            | 6  |
| <b>Fibers per Subunit, quantity</b> | 12   |
| <b>Total Fiber Count</b>            | 72   |

## Dimensions

|                                     |                   |
|-------------------------------------|-------------------|
| <b>Buffer Tube/Subunit Diameter</b> | 2.5 mm   0.098 in |
| <b>Diameter Over Jacket</b>         | 12 mm   0.472 in  |

## Representative Image



## Mechanical Specifications

|  |                                       |
|--|---------------------------------------|
| <b>Minimum Bend Radius, loaded</b>       | 181 mm   7.126 in                     |
| <b>Minimum Bend Radius, unloaded</b>     | 120 mm   4.724 in                     |
| <b>Tensile Load, long term, maximum</b>  | 800 N   179.847 lbf                   |
| <b>Tensile Load, short term, maximum</b> | 2700 N   606.984 lbf                  |
| <b>Compression</b>                       | 22 N/mm   125.623 lb/in               |
| <b>Compression Test Method</b>           | FOTP-41   IEC 60794-1 E3              |
| <b>Flex</b>                              | 25 cycles                             |
| <b>Flex Test Method</b>                  | FOTP-104   IEC 60794-1 E6             |
| <b>Impact</b>                            | 3 N-m   26.552 in lb                  |
| <b>Impact Test Method</b>                | FOTP-25   IEC 60794-1 E4              |
| <b>Strain</b>                            | See long and short term tensile loads |
| <b>Strain Test Method</b>                | FOTP-33   IEC 60794-1 E1              |
| <b>Twist</b>                             | 10 cycles                             |
| <b>Twist Test Method</b>                 | FOTP-85   IEC 60794-1 E7              |
| <b>Vertical Rise, maximum</b>            | 616 m   2,020.997 ft                  |

## Optical Specifications

|                   |                      |
|-------------------|----------------------|
| <b>Fiber Type</b> | G.652.D and G.657.A1 |
|-------------------|----------------------|

## 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) |

# 810010029/DB | C-072-LN-8W-M12BK/25D/E

|   |  |
|---|--|
| <b>Storage Temperature</b>                          | -40 °C to +75 °C (-40 °F to +167 °F)                                 |
| <b>Cable Qualification Standards</b>                | ANSI/ICEA S-104-696   EN 187105   Telcordia GR-20   Telcordia GR-409 |
| <b>EN50575 CPR Cable EuroClass Fire Performance</b> | Eca  |
| <b>Environmental Space</b>                          | Aerial, lashed   Buried   Low Smoke Zero Halogen (LSZH)              |
| <b>Flame Test Listing</b>                           | EN 50399   |
| <b>Flame Test Method</b>                            | EN 50399   IEC 60332-1-2   IEC 60754-2                               |
| <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>Drip</b>                          | 70 °C   158 °F                       |
| <b>Drip Test Method</b>              | FOTP-81   IEC 60794-1 E14            |
| <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> | 133 kg/km   89.372 lb/kft |
|---------------------|---------------------------|

## Included Products

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

## \* Footnotes

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