

Fiber indoor/outdoor cable, LightScope® ZWP Single Jacket All-Dielectric, LSZH, 36 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

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

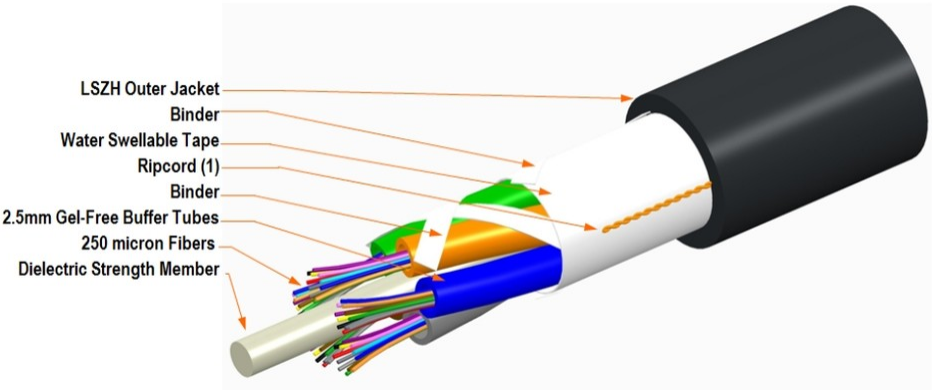
## General Specifications

|                              |                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------|
| Cable Type                   | Stranded loose tube                                                                              |
| Construction Type            | Non-armored                                                                                      |
| Subunit Type                 | Gel-free                                                                                         |
| Filler, quantity             | 1                                                                                                |
| Jacket Color                 | Black                                                                                            |
| Jacket Marking               | Meters                                                                                           |
| Jacket Marking Method        | Inkjet                                                                                           |
| Jacket Marking Text          | COMMScope GB OPTICAL CABLE OS2 SM 36 FIBER EN50575 CLASS E [SERIAL NUMBER] [MM /YY] [METRE MARK] |
| Subunit, quantity            | 3                                                                                                |
| Fibers per Subunit, quantity | 12                                                                                               |
| Total Fiber Count            | 36                                                                                               |

## Dimensions

|                              |                    |
|------------------------------|--------------------|
| Buffer Tube/Subunit Diameter | 2.5 mm   0.098 in  |
| Diameter Over Jacket         | 10.5 mm   0.413 in |

## Representative Image



Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 175 mm   6.89 in                      |
| Minimum Bend Radius, unloaded     | 117 mm   4.606 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                            | 3 N-m   26.552 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            | 654 m   2,145.669 ft                  |

Optical Specifications

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

Environmental Specifications

|                          |                                      |
|--------------------------|--------------------------------------|
| Installation temperature | -30 °C to +60 °C (-22 °F to +140 °F) |
| Operating Temperature    | -40 °C to +70 °C (-40 °F to +158 °F) |

# 810010036/DB | C-036-LN-8W-M12BK/25D/LTS /E

|                                              |                                                                      |
|----------------------------------------------|----------------------------------------------------------------------|
| Storage Temperature                          | -40 °C to +75 °C (-40 °F to +167 °F)                                 |
| Cable Qualification Standards                | ANSI/ICEA S-104-696   EN 187105   Telcordia GR-20   Telcordia GR-409 |
| EN50575 CPR Cable EuroClass Fire Performance | Eca                                                                  |
| Environmental Space                          | Aerial, lashed   Buried   Low Smoke Zero Halogen (LSZH)              |
| Flame Test Listing                           | EN 50399                                                             |
| Flame Test Method                            | EN 50399   IEC 60332-1-2   IEC 60754-2                               |
| Jacket UV Resistance                         | UV stabilized                                                        |
| Water Penetration                            | 24 h                                                                 |
| Water Penetration Test Method                | FOTP-82   IEC 60794-1 F5                                             |

## Environmental Test Specifications

|                               |                                      |
|-------------------------------|--------------------------------------|
| Cable Freeze                  | -2 °C   28.4 °F                      |
| Cable Freeze Test Method      | FOTP-98   IEC 60794-1 F15            |
| Drip                          | 70 °C   158 °F                       |
| Drip Test Method              | FOTP-81   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     | FOTP-37   IEC 60794-1 E11            |
| Temperature Cycle             | -40 °C to +70 °C (-40 °F to +158 °F) |
| Temperature Cycle Test Method | FOTP-3   IEC 60794-1 F1              |

## Packaging and Weights

|              |                           |
|--------------|---------------------------|
| Cable weight | 123 kg/km   82.652 lb/kft |
|--------------|---------------------------|

## Included Products

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

## \* Footnotes

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