

Fiber OSP cable, LightScope® ZWP Blown Micro Single Jacket, 36 fiber, All-Dielectric Stranded Loose Tube Arid-Core™ Construction, Gel-filled, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color

- \*Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

## Product Classification

|                         |   |
|-------------------------|---|
| Regional Availability   | Asia   Australia/New Zealand   EMEA   Latin America   North America |
| Portfolio               | CommScope®  |
| Product Type            | Fiber OSP cable   |
| Product Series          | B-LN  |
| Government Requirements | Build America Buy America (BABA) compliant*                         |

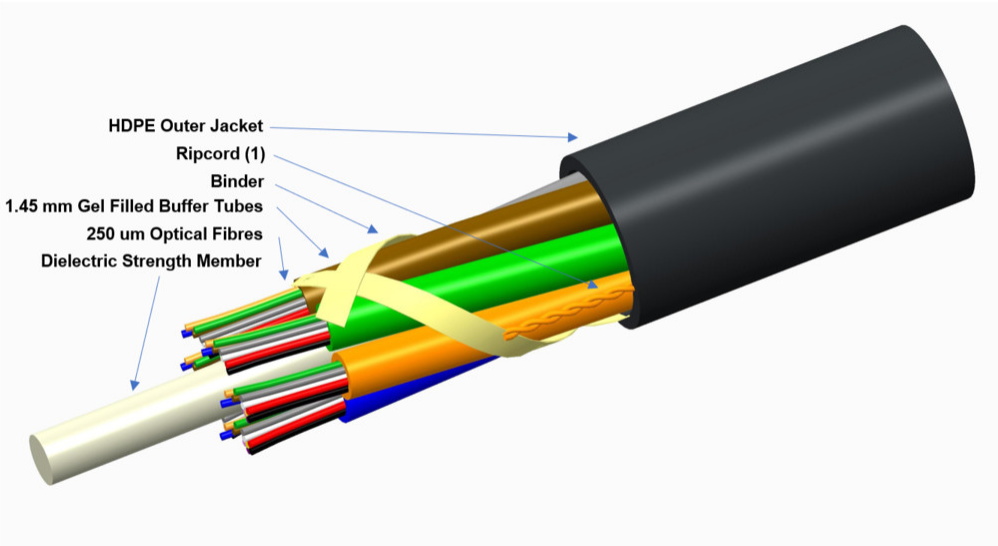
## General Specifications

|                              |  |
|------------------------------|--|
| Cable Type                   | Stranded loose tube  |
| Construction Type            | Non-armored  |
| Subunit Type                 | Gel-filled   |
| Filler, quantity             | 2  |
| Jacket Color                 | Black  |
| Jacket Marking               | Feet   |
| Jacket Marking Method        | Laser  |
| Jacket Marking Text          | COMMSCOPE OPTICAL CABLE OS2 SM 24F (SERIAL NUMBER) MM/YYYY XXXXXXXFT |
| Location of Manufacturing    | Claremont, North Carolina  |
| Subunit, quantity            | 3  |
| Fibers per Subunit, quantity | 12   |
| Total Fiber Count            | 36   |

## Dimensions

|                              |                    |
|------------------------------|--------------------|
| Buffer Tube/Subunit Diameter | 1.45 mm   0.057 in |
| Diameter Over Jacket         | 5.1 mm   0.201 in  |

Representative Image



Material Specifications

|                 |                                  |
|-----------------|----------------------------------|
| Jacket Material | High density polyethylene (HDPE) |
|-----------------|----------------------------------|

Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 208.3 mm   8.201 in                   |
| Minimum Bend Radius, unloaded     | 55 mm   2.165 in                      |
| Tensile Load, long term, maximum  | 97 N   21.806 lbf                     |
| Tensile Load, short term, maximum | 324 N   72.838 lbf                    |
| Compression                       | 10 N/mm   57.101 lb/in                |
| Compression Test Method           | IEC 60794-1-21 E3                     |
| Flex                              | 25 cycles                             |
| Flex Test Method                  | IEC 60794-1 E6                        |
| Impact                            | 0.3 N-m   2.655 in lb                 |
| Impact Test Method                | IEC 60794-1-21 E4                     |
| Strain                            | See long and short term tensile loads |
| Strain Test Method                | IEC 60794-1-21 E1                     |
| Twist                             | 10 cycles                             |

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|                               |                                |
|-------------------------------|--------------------------------|
| <b>Twist Test Method</b>      | IEC 60794-1-21 E7              |
| <b>Vertical Rise, maximum</b> | 492 m   1,614.173 ft           |
| Optical Specifications        |                                |
| <b>Fiber Type</b>             | G.652.D   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>         | -30 °C to +70 °C (-22 °F to +158 °F) |
| <b>Storage Temperature</b>           | -30 °C to +75 °C (-22 °F to +167 °F) |
| <b>Cable Qualification Standards</b> | IEC 60794-5-10                       |
| <b>Environmental Space</b>           | Air-blown, microduct                 |
| <b>Jacket UV Resistance</b>          | UV stabilized                        |
| <b>Water Penetration</b>             | 24 h                                 |
| <b>Water Penetration Test Method</b> | IEC 60794-1 F4                       |

## Environmental Test Specifications

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Cable Freeze</b>                  | -2 °C   28.4 °F                      |
| <b>Cable Freeze Test Method</b>      | IEC 60794-1 F15                      |
| <b>Drip</b>                          | 70 °C   158 °F                       |
| <b>Drip Test Method</b>              | IEC 60794-1-21 E14                   |
| <b>Heat Age</b>                      | -30 °C to +85 °C (-22 °F to +185 °F) |
| <b>Heat Age Test Method</b>          | IEC 60794-1-22 F9                    |
| <b>Low High Bend</b>                 | -30 °C to +60 °C (-22 °F to +140 °F) |
| <b>Low High Bend Test Method</b>     | IEC 60794-1-21 E11                   |
| <b>Temperature Cycle</b>             | -30 °C to +70 °C (-22 °F to +158 °F) |
| <b>Temperature Cycle Test Method</b> | IEC 60794-1-22 F1                    |

## Packaging and Weights

|                     |                          |
|---------------------|--------------------------|
| <b>Cable weight</b> | 22 kg/km   14.783 lb/kft |
|---------------------|--------------------------|

## Regulatory Compliance/Certifications

|               |                                   |
|---------------|-----------------------------------|
| <b>Agency</b> | <b>Classification</b>             |
| 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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |



Included Products

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

\* Footnotes

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