

Fiber OSP cable, Single Jacket All-Dielectric, 6 fiber Gel-Filled, Outdoor Central Tube, Singlemode G.652.D, Meters jacket marking, Black jacket color

## Product Classification

|                       |   |
|-----------------------|---|
| Regional Availability | Asia   Australia/New Zealand   EMEA   Latin America |
| Portfolio             | CommScope®  |
| Product Type          | Fiber OSP cable                                     |
| Product Series        | O-CN  |

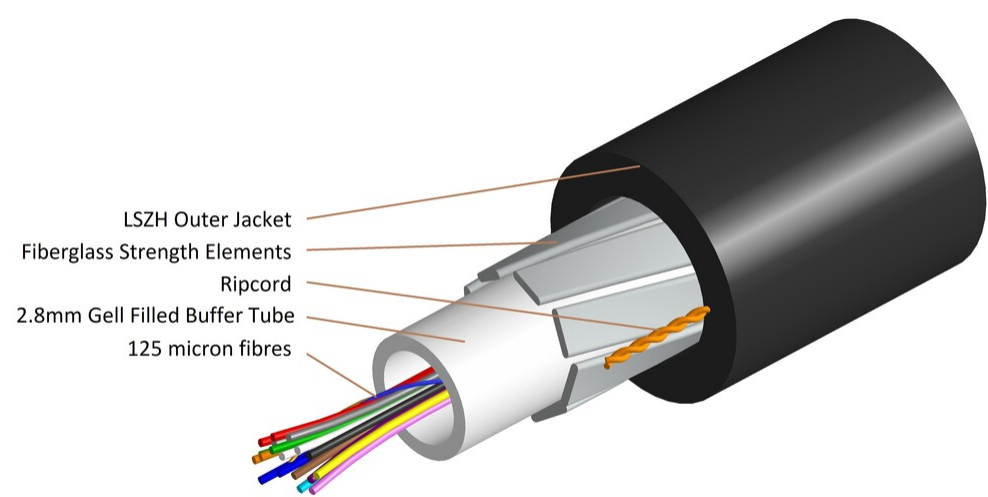
## General Specifications

|                              |  |
|------------------------------|--|
| Cable Type                   | Central loose tube   |
| Construction Type            | Non-armored  |
| Subunit Type                 | Gel-filled   |
| Jacket Color                 | Black  |
| Jacket Marking               | Meters   |
| Jacket Marking Method        | Inkjet   |
| Jacket Marking Text          | COMMScope GB F.O. CABLE 810009998/DB 6 x 9 /125 G857A1 HDPE (serial number) (metre mark) |
| Subunit, quantity            | 1  |
| Fibers per Subunit, quantity | 6  |
| Total Fiber Count            | 6  |

## Dimensions

|                              |                   |
|------------------------------|-------------------|
| Buffer Tube/Subunit Diameter | 2.8 mm   0.11 in  |
| Diameter Over Jacket         | 5.3 mm   0.209 in |

## Representative Image



## Material Specifications

Jacket Material

High density polyethylene (HDPE)

## Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 120 mm   4.724 in                     |
| Minimum Bend Radius, unloaded     | 100 mm   3.937 in                     |
| Tensile Load, long term, maximum  | 800 N   179.847 lbf                   |
| Tensile Load, short term, maximum | 1200 N   269.771 lbf                  |
| Compression                       | 15 N/mm   85.652 lb/in                |
| Compression Test Method           | IEC 60794-1-2 E3                      |
| Flex                              | 25 cycles                             |
| Flex Test Method                  | IEC 60794-1 E6                        |
| Impact                            | 5 N-m   44.254 in lb                  |
| Impact Test Method                | IEC 60794-1 E4                        |
| Strain                            | See long and short term tensile loads |
| Strain Test Method                | IEC 60794-1-2-E1                      |
| Twist                             | 5 cycles                              |
| Twist Test Method                 | IEC 60794-1 E7                        |

## Optical Specifications

|                               |                                      |
|-------------------------------|--------------------------------------|
| Fiber Type                    | G.652.D and G.657.A1                 |
| Environmental Specifications  |                                      |
| Installation temperature      | -30 °C to +70 °C (-22 °F to +158 °F) |
| Operating Temperature         | -30 °C to +70 °C (-22 °F to +158 °F) |
| Storage Temperature           | -40 °C to +75 °C (-40 °F to +167 °F) |
| Cable Qualification Standards | ANSI/ICEA S-87-640   EN 187105       |
| Environmental Space           | Aerial, lashed   Buried              |
| Jacket UV Resistance          | UV stabilized                        |
| Water Penetration             | 24 h                                 |

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Environmental Test Specifications |                                      |
| 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     | IEC 60794-1 F1                       |

|                       |                          |
|-----------------------|--------------------------|
| Packaging and Weights |                          |
| Cable weight          | 27 kg/km   18.143 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