



Fiber OSP cable, LightScope® ZWP Mini Single Jacket All-Dielectric, 96 fiber, Gel-Filled, Stranded Loose Tube, Singlemode G.657.A1, Meters jacket marking, Black jacket color

Product Classification

|                       |                 |
|-----------------------|-----------------|
| Regional Availability | EMEA            |
| Portfolio             | CommScope®      |
| Product Type          | Fiber OSP cable |
| Product Series        | O-LN            |

General Specifications

|                              |   |
|------------------------------|---|
| Cable Type                   | Stranded 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 OPTICAL CABLE G657A1 SM 96 FIBER [SERIAL NUMBER] [MM /YYYY] [METRE MARK] |
| Subunit, quantity            | 8   |
| Fibers per Subunit, quantity | 12  |
| Total Fiber Count            | 96  |

Dimensions

|                              |                    |
|------------------------------|--------------------|
| Buffer Tube/Subunit Diameter | 2 mm   0.079 in    |
| Diameter Over Jacket         | 10.5 mm   0.413 in |

Representative Image



Material Specifications

Jacket Material PE

Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 158 mm   6.22 in                      |
| Minimum Bend Radius, unloaded     | 105 mm   4.134 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           | IEC 60794-1 E3                        |
| Flex                              | 25 cycles                             |
| Flex Test Method                  | IEC 60794-1 E6                        |
| Impact                            | 2.94 N-m   26.021 in lb               |
| Impact Test Method                | IEC 60794-1 E4                        |
| Strain                            | See long and short term tensile loads |
| Strain Test Method                | IEC 60794-1 E1                        |
| Twist                             | 10 cycles                             |
| Twist Test Method                 | IEC 60794-1 E7                        |
| Vertical Rise, maximum            | 946 m   3,103.675 ft                  |

Optical Specifications

Fiber Type G.657.A1

Environmental Specifications

810010057/DB | O-096-LN-8F-M12NS/20G/BK

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|                               |  |
|-------------------------------|--|
| Installation temperature      | -30 °C to +70 °C (-22 °F to +158 °F)           |
| Operating Temperature         | -40 °C to +70 °C (-40 °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   IEC 60794-1-2 |
| Environmental Space           | Aerial, lashed   Buried                        |
| Jacket UV Resistance          | UV stabilized                                  |
| Water Penetration             | 24 h   |
| Water Penetration Test Method | IEC 60794-1 F5                                 |

### Environmental Test Specifications

|                               |                                      |
|-------------------------------|--------------------------------------|
| Cable Freeze                  | -2 °C   28.4 °F                      |
| Cable Freeze Test Method      | IEC 60794-1 F15                      |
| Drip                          | 70 °C   158 °F                       |
| Drip Test Method              | 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     | 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 | 86 kg/km   57.789 lb/kft |
|--------------|--------------------------|

### Included Products

CS-8F-250-EMEA – LightScope® ZWP Singlemode Fiber

### \* Footnotes

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