

# 8107363/DB/GS | D-096-LN-8W-F12NS/GS



Fiber OSP cable, LightScope® ZWP Single Jacket All-Dielectric, 96 fiber, Gel-Free, Stranded Loose Tube, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color

## Product Classification

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

## General Specifications

|                              |                           |
|------------------------------|---------------------------|
| Cable Type                   | Stranded loose tube       |
| Construction Type            | Non-armored               |
| Subunit Type                 | Gel-free                  |
| Filler, quantity             | 2                         |
| Jacket Color                 | Black                     |
| Jacket Marking               | Feet                      |
| Location of Manufacturing    | Claremont, North Carolina |
| Subunit, quantity            | 8                         |
| Fibers per Subunit, quantity | 12                        |
| Total Fiber Count            | 96                        |

## Dimensions

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

## Representative Image



Material Specifications

Jacket Material

PE

Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 180 mm   7.087 in                     |
| Minimum Bend Radius, unloaded     | 120 mm   4.724 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                            | 4.41 N-m   39.032 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            | 904 m   2,965.879 ft                  |

Optical Specifications

Fiber Type

G.652.D and G.657.A1 | G.652.D and G.657.A1

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## Environmental Specifications

|                               |  |
|-------------------------------|--|
| 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   Telcordia GR-20 |
| Environmental Space           | Aerial, lashed   Buried                          |
| 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            |
| 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 | 90 kg/km   60.477 lb/kft |
|--------------|--------------------------|

## Included Products

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

## \* Footnotes

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