

Fiber OSP cable, LightScope® ZWP Single Jacket/Single Armor, 144 fiber, Gel-Free, Stranded Loose Tube, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color with Yellow tracer, Build America Buy America (BABA)

- Corrugated steel tape armor is strong yet flexible, providing additional crush and rodent protection
- \*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          | D-LA  |
| Government Requirements | Build America Buy America (BABA) compliant*                         |

## General Specifications

|                              |                           |
|------------------------------|---------------------------|
| Armor Type                   | Corrugated steel          |
| Cable Type                   | Stranded loose tube       |
| Construction Type            | Armored                   |
| Subunit Type                 | Gel-free                  |
| Jacket Color                 | Black                     |
| Jacket Marking               | Feet                      |
| Location of Manufacturing    | Claremont, North Carolina |
| Subunit, quantity            | 12                        |
| Fibers per Subunit, quantity | 12                        |
| Total Fiber Count            | 144                       |

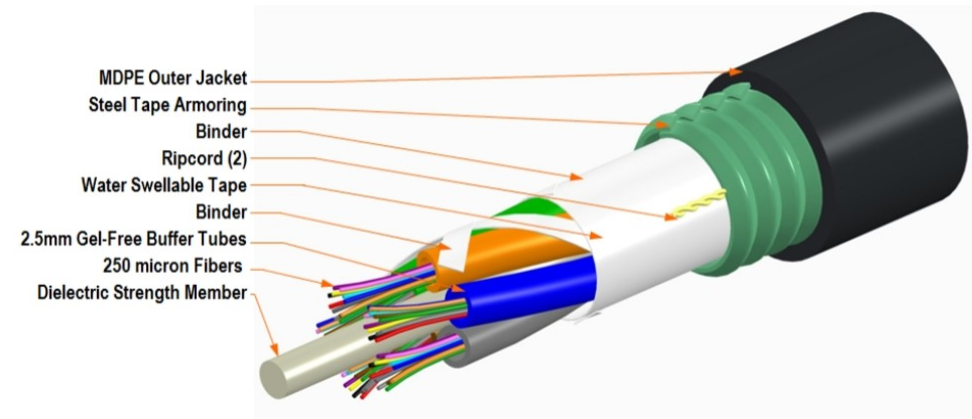
## Dimensions

|                              |                   |
|------------------------------|-------------------|
| Buffer Tube/Subunit Diameter | 2.5 mm   0.098 in |
|------------------------------|-------------------|

# 8108111/DB | D-144-LA-8W-F12YL

Diameter Over Jacket17.1 mm | 0.673 in

## Representative Image



## Material Specifications

Jacket MaterialPE

## Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 257 mm   10.118 in                    |
| Minimum Bend Radius, unloaded     | 171 mm   6.732 in                     |
| Tensile Load, long term, maximum  | 800 N   179.847 lbf                   |
| Tensile Load, short term, maximum | 2700 N   606.984 lbf                  |
| Compression                       | 44 N/mm   251.246 lb/in               |
| Compression Test Method           | FOTP-41   IEC 60794-1 E3              |
| Flex                              | 25 cycles                             |
| Flex Test Method                  | FOTP-104   IEC 60794-1 E6             |
| Impact                            | 5.88 N-m   52.042 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            | 349 m   1,145.013 ft                  |

## Optical Specifications

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**Fiber Type** G.652.D and G.657.A1 | 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>                  | -40 °C to +70 °C (-40 °F to +158 °F)             |
| <b>Storage Temperature</b>                    | -40 °C to +75 °C (-40 °F to +167 °F)             |
| <b>Cable Qualification Standards</b>          | ANSI/ICEA S-87-640   EN 187105   Telcordia GR-20 |
| <b>Environmental Space</b>                    | Aerial, lashed   Buried                          |
| <b>Jacket UV Resistance</b>                   | UV stabilized                                    |
| <b>Water Penetration</b>                      | 24 h   |
| <b>Water Penetration Qualification Method</b> | ANSI/ICEA S-87-640                               |
| <b>Water Penetration Test Method</b>          | FOTP-82   IEC 60794-1 F5                         |

## Environmental Test Specifications

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Cable Freeze</b>                  | -2 °C   28.4 °F                      |
| <b>Cable Freeze Test Method</b>      | FOTP-98   IEC 60794-1 F15            |
| <b>Heat Age</b>                      | -40 °C to +85 °C (-40 °F to +185 °F) |
| <b>Heat Age Test Method</b>          | IEC 60794-1 F9                       |
| <b>Low High Bend</b>                 | -30 °C to +60 °C (-22 °F to +140 °F) |
| <b>Low High Bend Test Method</b>     | FOTP-37   IEC 60794-1 E11            |
| <b>Temperature Cycle</b>             | -40 °C to +70 °C (-40 °F to +158 °F) |
| <b>Temperature Cycle Test Method</b> | FOTP-3   IEC 60794-1 F1              |

## Packaging and Weights

|                     |                            |
|---------------------|----------------------------|
| <b>Cable weight</b> | 234 kg/km   157.241 lb/kft |
|---------------------|----------------------------|

## Included Products

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

### \* Footnotes

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