

# 810010275/DB | D-144-LA-8W-M12NS



Fiber OSP cable, LightScope ZWP® Single Jacket/Single Armor, 144 fiber, Gel-Free, Stranded Loose Tube, Singlemode G.652.D and G.657.A1, Meters jacket marking, Black jacket color

- Corrugated steel tape armor is strong yet flexible, providing additional crush and rodent protection

## Product Classification

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

## General Specifications

|                                     |                     |
|-------------------------------------|---------------------|
| <b>Armor Type</b>                   | Corrugated steel    |
| <b>Cable Type</b>                   | Stranded loose tube |
| <b>Construction Type</b>            | Armored             |
| <b>Subunit Type</b>                 | Gel-free            |
| <b>Jacket Color</b>                 | Black               |
| <b>Jacket Marking</b>               | Meters              |
| <b>Subunit, quantity</b>            | 12                  |
| <b>Fibers per Subunit, quantity</b> | 12                  |
| <b>Total Fiber Count</b>            | 144                 |

## Dimensions

|                                     |                    |
|-------------------------------------|--------------------|
| <b>Buffer Tube/Subunit Diameter</b> | 2.5 mm   0.098 in  |
| <b>Diameter Over Jacket</b>         | 17.1 mm   0.673 in |

## Representative Image



## Material Specifications

**Jacket Material** PE

## 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

**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       |
| <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 |
|---------------------|----------------------------|

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

## \* Footnotes

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