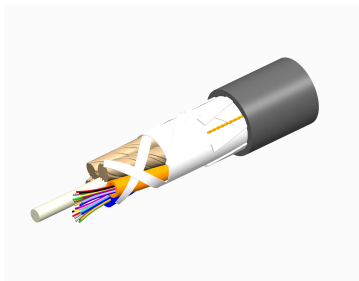


# 8108080/DB | P-144-LN-8W-F12BK/25D



Fiber indoor/outdoor cable, LightScope ZWP®, Single Jacket All-Dielectric, Plenum Rated, 144 fiber, Singlemode G.652.D and G.657.A1, Gel-Free, Stranded Loose Tube, PVDF jacket, Meters jacket marking, Black jacket color

## Product Classification

### Regional Availability

Asia | Australia/New Zealand | Latin America | Middle East /Africa | North America

### Portfolio

CommScope®

### Product Type

Fiber indoor/outdoor cable

### Product Series

P-LN

## General Specifications

### Cable Type

Stranded loose tube

### Construction Type

Non-armored

### Subunit Type

Gel-free

### Jacket Color

Black

### Jacket Marking

Feet

### Subunit, quantity

12

### Fibers per Subunit, quantity

12

### Total Fiber Count

144

## Dimensions

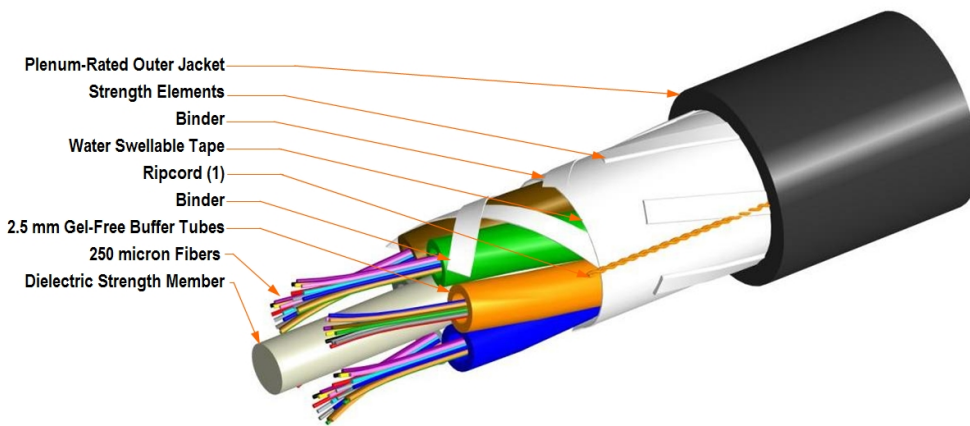
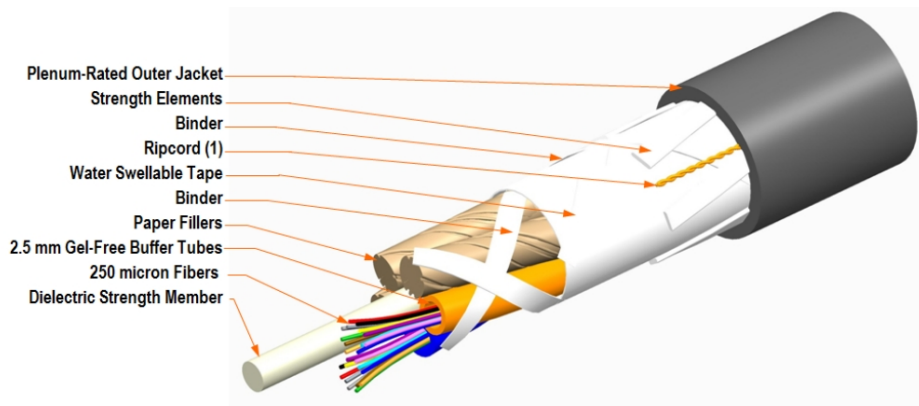
### Buffer Tube/Subunit Diameter

2.5 mm | 0.098 in

### Diameter Over Jacket

15.3 mm | 0.602 in

## Representative Image



## Mechanical Specifications

|  |                                       |
|--|---------------------------------------|
| <b>Minimum Bend Radius, loaded</b>       | 229 mm   9.016 in                     |
| <b>Minimum Bend Radius, unloaded</b>     | 153 mm   6.024 in                     |
| <b>Tensile Load, long term, maximum</b>  | 800 N   179.847 lbf                   |
| <b>Tensile Load, short term, maximum</b> | 2700 N   606.984 lbf                  |
| <b>Compression</b>                       | 22 N/mm   125.623 lb/in               |
| <b>Compression Test Method</b>           | FOTP-41   IEC 60794-1 E3              |
| <b>Flex</b>                              | 25 cycles                             |
| <b>Flex Test Method</b>                  | FOTP-104   IEC 60794-1 E6             |
| <b>Impact</b>                            | 5.15 N-m   45.581 in lb               |
| <b>Impact Test Method</b>                | FOTP-25   IEC 60794-1 E4              |
| <b>Strain</b>                            | See long and short term tensile loads |
| <b>Strain Test Method</b>                | FOTP-33   IEC 60794-1 E1              |
| <b>Twist</b>                             | 10 cycles                             |

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**Twist Test Method** FOTP-85 | IEC 60794-1 E7

**Vertical Rise, maximum** 329 m | 1,079.396 ft

## Optical Specifications

**Fiber Type** G.652.D and G.657.A1 | G.652.D and G.657.A1

## 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-104-696 | EN 187105 | Telcordia GR-409

**Environmental Space** Plenum

**Flame Test Listing** NEC OFNP (ETL) and c(ETL)

**Flame Test Method** NFPA 130 | NFPA 262

**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** 248 kg/km | 166.648 lb/kft

## Regulatory Compliance/Certifications

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



## Included Products

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

## \* Footnotes

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