

Fiber OSP cable, LightScope® ZWP Single Jacket/Single Armor, Gel-Free, Stranded Loose Tube, 24 fibers, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color

- 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

<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
<b>Government Requirements</b>	Build America Buy America (BABA) compliant*

## 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>Filler, quantity</b>	3
<b>Jacket Color</b>	Black
<b>Jacket Marking</b>	Feet
<b>Location of Manufacturing</b>	Catawba, North Carolina
<b>Subunit, quantity</b>	2
<b>Fibers per Subunit, quantity</b>	12
<b>Total Fiber Count</b>	24

## Dimensions

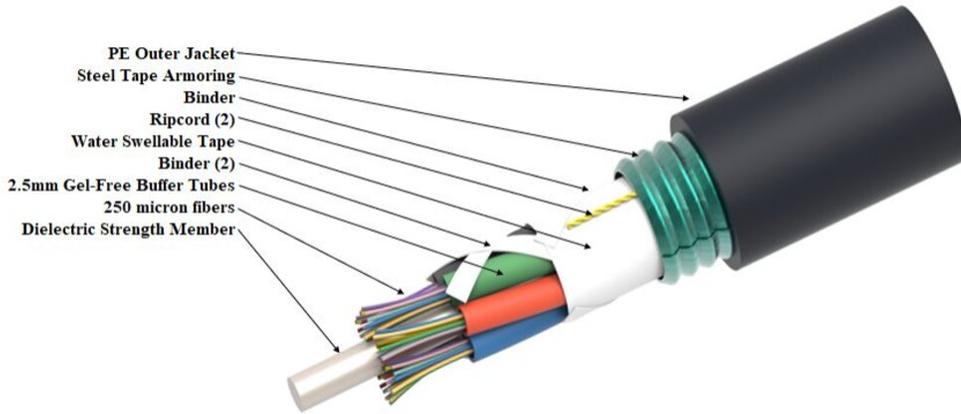
<b>Buffer Tube/Subunit Diameter</b>	2.5 mm   0.098 in
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# 8107298/DB | D-024-LA-8W-F12NS

**Diameter Over Jacket**

11.5 mm | 0.453 in

## Representative Image



## Material Specifications

**Jacket Material**

PE

## Mechanical Specifications

**Minimum Bend Radius, loaded**

173 mm | 6.811 in

**Minimum Bend Radius, unloaded**

115 mm | 4.528 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**

740 m | 2,427.822 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-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** 110 kg/km | 73.917 lb/kft

## Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

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

## \* Footnotes

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