

Fiber OSP cable, LightScope® ZWP Single Jacket All-Dielectric, High Fiber Count, 312 fiber, Gel-Filled, Stranded Loose Tube, Singlemode G. 652.D and G.657.A1, Feet jacket marking, Black jacket color

 \*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

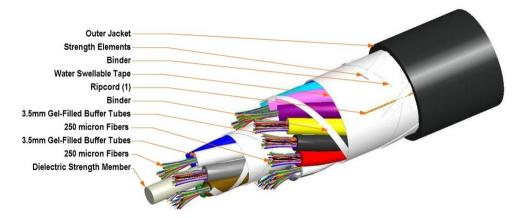
Regional Availability	Asia   Australia/New Zealand   EMEA   Latin America   North America
Portfolio	CommScope®
Product Type	Fiber OSP cable
Product Series	O-LN
Government Requirements	Build America Buy America (BABA) compliant*
General Specifications	
Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Filler, quantity	5
Jacket Color	Black
Jacket Marking	Feet
Location of Manufacturing	Claremont, North Carolina
Subunit, quantity	13
Fibers per Subunit, quantity	24
Total Fiber Count	312
Dimensions	
Buffer Tube/Subunit Diameter	3.5 mm   0.138 in
Diameter Over Jacket	21.5 mm   0.846 in

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## Representative Image



## Material Specifications

**Jacket Material** 

ΡE

## Mechanical Specifications

Minimum Bend Radius, loaded	323 mm   12.717 in
Minimum Bend Radius, unloaded	215 mm   8.465 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	6.62 N-m   58.592 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	317 m   1,040.026 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
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**

-2 °C   28.4 °F
FOTP-98   IEC 60794-1 F15
70 °C   158 °F
FOTP-81   IEC 60794-1 E14
-40 °C to +85 °C (-40 °F to +185 °F)
IEC 60794-1 F9
-30 °C to +60 °C (-22 °F to +140 °F)
FOTP-37   IEC 60794-1 E11
-40 °C to +70 °C (-40 °F to +158 °F)
FOTP-3   IEC 60794-1 F1

### Packaging and Weights

Cable weight

258 kg/km | 173.368 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

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

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