

Fiber OSP cable, LightScope® ZWP All-Dielectric Self-Supporting, 216 fiber, 2.5mm Gel-filled Tubes, Singlemode G.652.D and G.657.Al, 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 S-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 0

Jacket Color Black
Jacket Marking Feet

**Location of Manufacturing**Claremont, North Carolina

Subunit, quantity 18
Fibers per Subunit, quantity 12

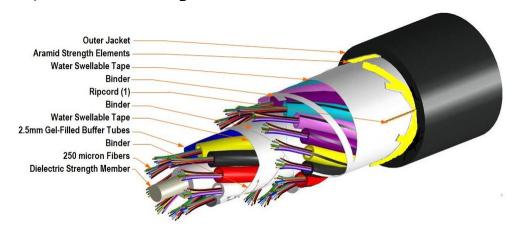
**Total Fiber Count** 216

Dimensions

Buffer Tube/Subunit Diameter 2.5 mm | 0.098 in Diameter Over Jacket 16.52 mm | 0.65 in

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### Representative Image



### Material Specifications

Jacket Material PE

#### Mechanical Specifications

Minimum Bend Radius, loaded248 mm9.764 inMinimum Bend Radius, unloaded165 mm6.496 in

**Tensile Load, long and short term**See Sag and Tension tables in Product Documentation section

**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** 2.94 N-m | 26.021 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

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 | IEEE-1222

**Environmental Space** Aerial, self-support

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

**Drip** 80 °C | 176 °F

**Drip Test Method** FOTP-81 | IEC 60794-1 E14

**Heat Age**  $-40 \,^{\circ}\text{C}$  to  $+85 \,^{\circ}\text{C}$   $(-40 \,^{\circ}\text{F to} +185 \,^{\circ}\text{F})$ 

**Heat Age Test Method** IEC 60794-1 F9

**Low High Bend**  $-30 \,^{\circ}\text{C} \text{ to } +60 \,^{\circ}\text{C} \, (-22 \,^{\circ}\text{F to } +140 \,^{\circ}\text{F})$ 

**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** 166 kg/km | 111.547 lb/kft

### Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



#### Included Products

DB-8W-LT - LightScope® ZWP Singlemode

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Fiber

\* Footnotes

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