

Fiber OSP cable, LightScope ZWP® Blown Micro Single Jacket All-Dielectric, 96 fiber, Stranded Loose Tube Arid-Core® Construction, Gel-filled, 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

<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>	B-LN
<b>Government Funding</b>	Build America Buy America (BABA) compliant*

## General Specifications

<b>Cable Type</b>	Stranded loose tube
<b>Construction Type</b>	Non-armored
<b>Subunit Type</b>	Gel-filled
<b>Filler, quantity</b>	0
<b>Jacket Color</b>	Black
<b>Jacket Marking</b>	Feet
<b>Jacket Marking Method</b>	Laser
<b>Jacket Marking Text</b>	COMMSCOPE OPTICAL CABLE OS2 SM 96F (SERIAL NUMBER) MM/YYYY XXXXXXXXFT
<b>Subunit, quantity</b>	8
<b>Fibers per Subunit, quantity</b>	12
<b>Total Fiber Count</b>	96

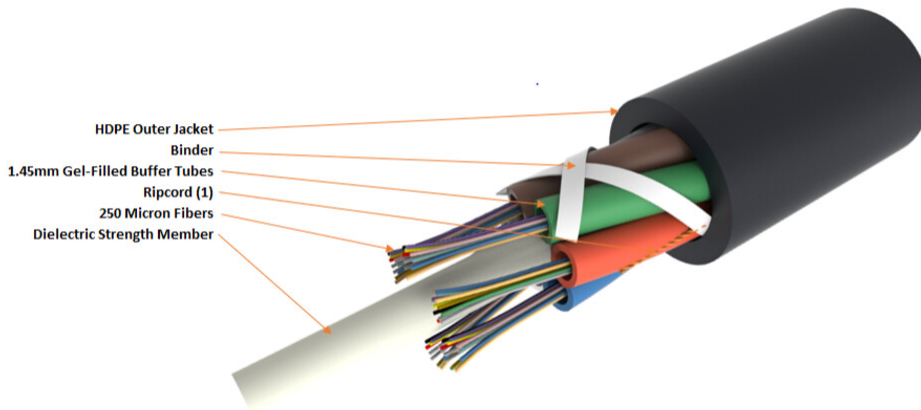
## Dimensions

<b>Buffer Tube/Subunit Diameter</b>	1.45 mm   0.057 in
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**Diameter Over Jacket**

6.5 mm | 0.256 in

## Representative Image



## Material Specifications

**Jacket Material**

High density polyethylene (HDPE)

## Mechanical Specifications

**Minimum Bend Radius, loaded**

279.4 mm | 11 in

**Minimum Bend Radius, unloaded**

110 mm | 4.331 in

**Tensile Load, long term, maximum**

267 N | 60.024 lbf

**Tensile Load, short term, maximum**

890 N | 200.08 lbf

**Compression**

10 N/mm | 57.101 lb/in

**Compression Test Method**

IEC 60794-1-21 E3

**Flex**

25 cycles

**Flex Test Method**

IEC 60794-1 E6

**Impact**

0.3 N-m | 2.655 in lb

**Impact Test Method**

IEC 60794-1-21 E4

**Strain**

See long and short term tensile loads

**Strain Test Method**

IEC 60794-1-21 E1

**Twist**

10 cycles

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<b>Twist Test Method</b>	IEC 60794-1-21 E7
<b>Vertical Rise, maximum</b>	752 m   2,467.192 ft

## Optical Specifications

<b>Fiber Type</b>	G.652.D   G.652.D and G.657.A1
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## Environmental Specifications

<b>Installation temperature</b>	-30 °C to +70 °C (-22 °F to +158 °F)
<b>Operating Temperature</b>	-30 °C to +70 °C (-22 °F to +158 °F)
<b>Storage Temperature</b>	-30 °C to +75 °C (-22 °F to +167 °F)
<b>Cable Qualification Standards</b>	IEC 60794-5-10
<b>Environmental Space</b>	Air-blown, microduct
<b>Jacket UV Resistance</b>	UV stabilized
<b>Water Penetration</b>	24 h
<b>Water Penetration Test Method</b>	IEC 60794-1 F4

## Environmental Test Specifications

<b>Cable Freeze</b>	-2 °C   28.4 °F
<b>Cable Freeze Test Method</b>	IEC 60794-1 F15
<b>Drip</b>	70 °C   158 °F
<b>Drip Test Method</b>	IEC 60794-1-21 E14
<b>Heat Age</b>	-30 °C to +85 °C (-22 °F to +185 °F)
<b>Heat Age Test Method</b>	IEC 60794-1-22 F9
<b>Low High Bend</b>	-30 °C to +60 °C (-22 °F to +140 °F)
<b>Low High Bend Test Method</b>	IEC 60794-1-21 E11
<b>Temperature Cycle</b>	-30 °C to +70 °C (-22 °F to +158 °F)
<b>Temperature Cycle Test Method</b>	IEC 60794-1-22 F1

## Packaging and Weights

<b>Cable weight</b>	38 kg/km   25.535 lb/kft
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value

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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-MICROLT – LightScope ZWP® Singlemode Fiber

## \* Footnotes

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