



Fiber OSP cable, LightScope ZWP® Blown Micro Single Jacket All-Dielectric, 48 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

Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Portfolio	CommScope®
Product Type	Fiber OSP cable
Product Series	B-LN
Government Funding	Build America Buy America (BABA) compliant*

General Specifications

Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Filler, quantity	1
Jacket Color	Black
Jacket Marking	Feet
Jacket Marking Method	Laser
Jacket Marking Text	COMMSCOPE OPTICAL CABLE OS2 SM 48F (SERIAL NUMBER) MM/YYYY XXXXXXXXFT
Subunit, quantity	4
Fibers per Subunit, quantity	12
Total Fiber Count	48

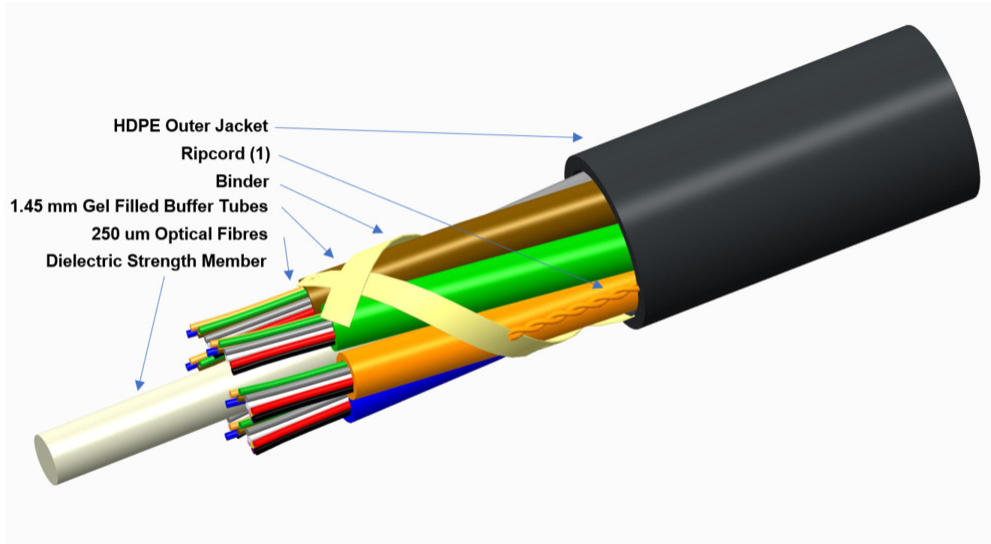
Dimensions

Buffer Tube/Subunit Diameter	1.45 mm 0.057 in
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Diameter Over Jacket

5.1 mm | 0.201 in

Representative Image



Material Specifications

Jacket Material

High density polyethylene (HDPE)

Mechanical Specifications

Minimum Bend Radius, loaded

208.3 mm | 8.201 in

Minimum Bend Radius, unloaded

55 mm | 2.165 in

Tensile Load, long term, maximum

97 N | 21.806 lbf

Tensile Load, short term, maximum

324 N | 72.838 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

Twist Test Method

IEC 60794-1-21 E7

810009643/DB | B-048-LN-8W-F12NS/15G

Vertical Rise, maximum 492 m | 1,614.173 ft

Optical Specifications

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

Environmental Specifications

Installation temperature -30 °C to +70 °C (-22 °F to +158 °F)

Operating Temperature -30 °C to +70 °C (-22 °F to +158 °F)

Storage Temperature -30 °C to +75 °C (-22 °F to +167 °F)

Cable Qualification Standards IEC 60794-5-10

Environmental Space Air-blown, microduct

Jacket UV Resistance UV stabilized

Water Penetration 24 h

Water Penetration Test Method IEC 60794-1 F4

Environmental Test Specifications

Cable Freeze -2 °C | 28.4 °F

Cable Freeze Test Method IEC 60794-1 F15

Drip 70 °C | 158 °F

Drip Test Method IEC 60794-1-21 E14

Heat Age -30 °C to +85 °C (-22 °F to +185 °F)

Heat Age Test Method IEC 60794-1-22 F9

Low High Bend -30 °C to +60 °C (-22 °F to +140 °F)

Low High Bend Test Method IEC 60794-1-21 E11

Temperature Cycle -30 °C to +70 °C (-22 °F to +158 °F)

Temperature Cycle Test Method IEC 60794-1-22 F1

Packaging and Weights

Cable weight 22 kg/km | 14.783 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 www.commscope.com/ProductCompliance
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