

810010471/DB | B-048-LN-HY-F12NS/15G /8W048/1X24AWG



Fiber OSP cable, LightScope® ZWP Blown Micro Single Jacket All-Dielectric, Tone Wire Outdoor, 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 Requirements	Build America Buy America (BABA) compliant*

General Specifications

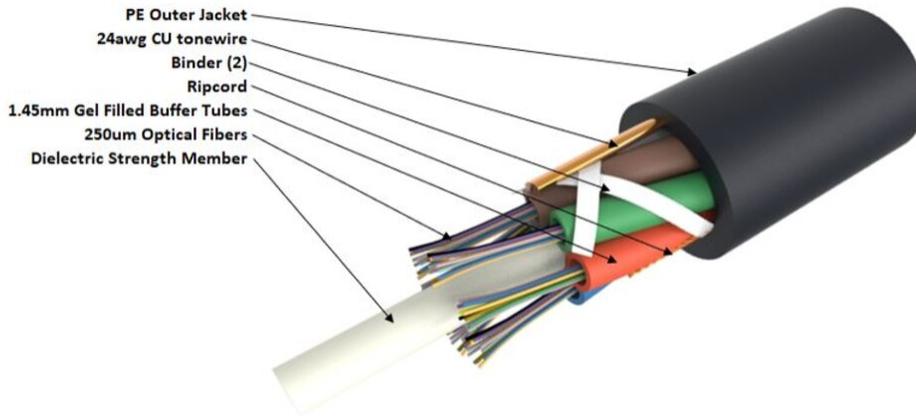
Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Filler, quantity	1
Jacket Color	Black
Jacket Marking	Feet
Jacket Marking Method	Laser
Jacket Marking Text	COMMSCOPE OPTICAL CABLE OS2 SM 48F (SERIAL NUMBER) MM/YYYY XXXXXXXXFT
Location of Manufacturing	Claremont, North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

Dimensions

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Buffer Tube/Subunit Diameter	1.45 mm 0.057 in
Diameter Over Jacket	5.1 mm 0.201 in
Tone Wire Gauge	24 AWG

Representative Image



Material Specifications

Jacket Material	High density polyethylene (HDPE)
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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

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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

Included Products

CS-8W-250-B-LN – TeraSPEED® G652D/G657A1 Singlemode Fiber

* Footnotes

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Operating Temperature Specification applicable to non-terminated bulk fiber cable