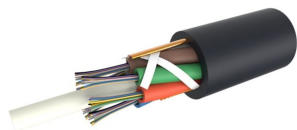


# 810010471/DB | B-048-LN-HY-F12NS/15G /8W048/1X24AWG



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

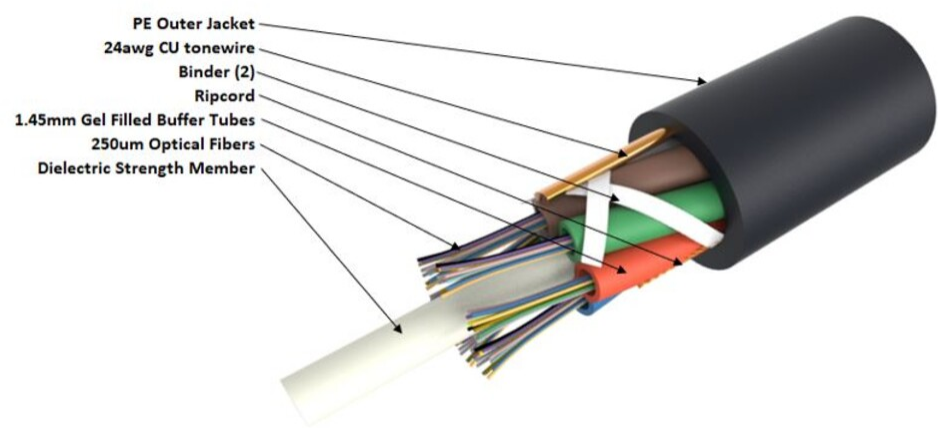
Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Filler, quantity	1
Jacket Color	Black
Jacket Marking	Feet
Jacket Marking Method	Laser
Jacket Marking Text	COMMScope OPTICAL CABLE OS2 SM 48F (SERIAL NUMBER) MM/YYYY XXXXXXXXFT
Location of Manufacturing	Claremont, North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

## Dimensions

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

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)
-----------------	----------------------------------

## 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

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

**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

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

---

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