

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



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 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

## General Specifications

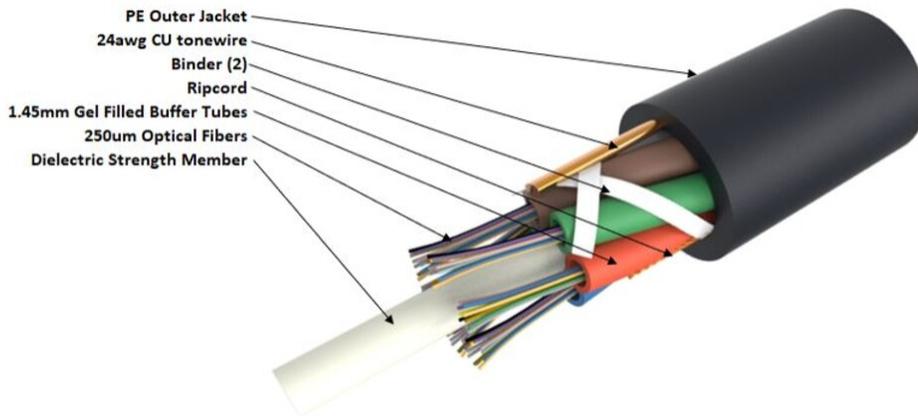
<b>Cable Type</b>	Stranded loose tube
<b>Construction Type</b>	Non-armored
<b>Subunit Type</b>	Gel-filled
<b>Filler, quantity</b>	1
<b>Jacket Color</b>	Black
<b>Jacket Marking</b>	Feet
<b>Jacket Marking Method</b>	Laser
<b>Jacket Marking Text</b>	COMMSCOPE OPTICAL CABLE OS2 SM 48F (SERIAL NUMBER) MM/YYYY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

## Dimensions

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

## Representative Image

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## 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  
**Vertical Rise, maximum** 492 m | 1,614.173 ft

## Optical Specifications

**Fiber Type** 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>	22 kg/km   14.783 lb/kft
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## Included Products

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

## \* Footnotes

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