



Fiber OSP cable, LightScope® ZWP Mini Single Jacket All-Dielectric, High Tensile Strength, Singlemode G.652.D and G.657.A1, 48 fiber, Gel-Filled, Stranded Loose Tube, Meters jacket marking, Black jacket color, Provides Rodent Resistance

## Product Classification

<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA
<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Fiber OSP cable
<b>Product Series</b>	O-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>	2
<b>Jacket Color</b>	Black
<b>Jacket Marking</b>	Meters
<b>Jacket Marking Method</b>	Inkjet
<b>Jacket Marking Text</b>	COMMSCOPE GB OPTICAL CABLE 810009684/DB OS2 SM 48 MDPE [SERIAL NUMBER] [METRE MARK]
<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>	2 mm   0.079 in
<b>Diameter Over Jacket</b>	11.6 mm   0.457 in

## Representative Image



## Material Specifications

**Jacket Material** PE

## Mechanical Specifications

**Minimum Bend Radius, loaded** 174 mm | 6.85 in

**Minimum Bend Radius, unloaded** 116 mm | 4.567 in

**Tensile Load, long term, maximum** 1350 N | 303.492 lbf

**Tensile Load, short term, maximum** 4500 N | 1,011.641 lbf

**Compression** 22 N/mm | 125.623 lb/in

**Compression Test Method** FOTP-41 | IEC 60794-1 E3

**Flex** 25 cycles

**Flex Test Method** FOTP-104 | IEC 60794-1 E6

**Impact** 2.94 N-m | 26.021 in lb

**Impact Test Method** FOTP-25 | IEC 60794-1 E4

**Strain** See long and short term tensile loads

**Strain Test Method** FOTP-33 | IEC 60794-1 E1

**Twist** 10 cycles

**Twist Test Method** FOTP-85 | IEC 60794-1 E7

**Vertical Rise, maximum** 1345 m | 4,412.73 ft

## Optical Specifications

**Fiber Type** G.652.D and G.657.A1, TeraSPEED® | OS2

## Environmental Specifications

# 810009684/DB | O-048-LN-8W-M12NS/20G/HTS

<b>Installation temperature</b>	-10 °C to +50 °C (+14 °F to +122 °F)
<b>Operating Temperature</b>	-30 °C to +60 °C (-22 °F to +140 °F)
<b>Storage Temperature</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Cable Qualification Standards</b>	ANSI/ICEA S-87-640   EN 187105   IEC 60794-1-2
<b>Jacket UV Resistance</b>	UV stabilized
<b>Water Penetration</b>	24 h
<b>Water Penetration Test Method</b>	FOTP-82   IEC 60794-1 F5

## Environmental Test Specifications

<b>Cable Freeze</b>	-2 °C   28.4 °F
<b>Cable Freeze Test Method</b>	FOTP-98   IEC 60794-1 F15
<b>Drip</b>	70 °C   158 °F
<b>Drip Test Method</b>	FOTP-81   IEC 60794-1 E14
<b>Heat Age</b>	0 °C to +85 °C (+32 °F to +185 °F)
<b>Heat Age Test Method</b>	IEC 60794-1 F9
<b>Low High Bend</b>	-15 °C to +40 °C (+5 °F to +104 °F)
<b>Low High Bend Test Method</b>	FOTP-37   IEC 60794-1 E11
<b>Temperature Cycle</b>	-30 °C to +60 °C (-22 °F to +140 °F)
<b>Temperature Cycle Test Method</b>	FOTP-3   IEC 60794-1 F1

## Packaging and Weights

<b>Cable weight</b>	112 kg/km   75.261 lb/kft
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## Included Products

CS-8W-250-EMEA – LightScope® ZWP Singlemode Fiber  
250um

## \* Footnotes

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