



Fiber OSP cable, LightScope ZWP® Mini Single Jacket All-Dielectric, 96 fiber, Gel-Filled, Stranded Loose Tube, Singlemode G.657.A1, Meters jacket marking, Black jacket color

## Product Classification

<b>Regional Availability</b>	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>Jacket Color</b>	Black
<b>Jacket Marking</b>	Meters
<b>Jacket Marking Method</b>	Inkjet
<b>Jacket Marking Text</b>	COMMSCOPE GB OPTICAL CABLE G657A1 SM 96 FIBER [SERIAL NUMBER] [MM /YYYY] [METRE MARK]
<b>Subunit, quantity</b>	8
<b>Fibers per Subunit, quantity</b>	12
<b>Total Fiber Count</b>	96

## Dimensions

<b>Buffer Tube/Subunit Diameter</b>	2 mm   0.079 in
<b>Diameter Over Jacket</b>	10.5 mm   0.413 in

## Representative Image



## Material Specifications

**Jacket Material** PE

## Mechanical Specifications

**Minimum Bend Radius, loaded** 158 mm | 6.22 in

**Minimum Bend Radius, unloaded** 105 mm | 4.134 in

**Tensile Load, long term, maximum** 800 N | 179.847 lbf

**Tensile Load, short term, maximum** 2700 N | 606.984 lbf

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

**Compression Test Method** IEC 60794-1 E3

**Flex** 25 cycles

**Flex Test Method** IEC 60794-1 E6

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

**Impact Test Method** IEC 60794-1 E4

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

**Strain Test Method** IEC 60794-1 E1

**Twist** 10 cycles

**Twist Test Method** IEC 60794-1 E7

**Vertical Rise, maximum** 946 m | 3,103.675 ft

## Optical Specifications

**Fiber Type** G.657.A1

## Environmental Specifications

# 810010057/DB | O-096-LN-8F-M12NS/20G/BK

<b>Installation temperature</b>	-30 °C to +70 °C (-22 °F to +158 °F)
<b>Operating Temperature</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Storage Temperature</b>	-40 °C to +75 °C (-40 °F to +167 °F)
<b>Cable Qualification Standards</b>	ANSI/ICEA S-87-640   EN 187105   IEC 60794-1-2
<b>Environmental Space</b>	Aerial, lashed   Buried
<b>Jacket UV Resistance</b>	UV stabilized
<b>Water Penetration</b>	24 h
<b>Water Penetration Test Method</b>	IEC 60794-1 F5

## 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 E14
<b>Heat Age</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Heat Age Test Method</b>	IEC 60794-1 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 E11
<b>Temperature Cycle</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Temperature Cycle Test Method</b>	IEC 60794-1 F1

## Packaging and Weights

<b>Cable weight</b>	86 kg/km   57.789 lb/kft
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## Included Products

CS-8F-TB	– Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber
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## \* Footnotes

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