



Fiber OSP cable, LightScope® ZWP Blown Single Jacket All-Dielectric, 96 fiber, Stranded Microsheath Tube Construction, Gel-free, Singlemode G.657.A1, Meters jacket marking, Black jacket color

Product Classification

Regional Availability	Europe
Portfolio	CommScope®
Product Type	Fiber OSP cable
Product Series	B-LN

General Specifications

Cable Type	Microcable   Stranded microsheath tube
Construction Type	Non-armored
Subunit Type	Gel-free
Jacket Color	Black
Jacket Marking	Meters
Jacket Marking Method	Inkjet
Jacket Marking Text	COMMScope GB F.O. CABLE 810009903/DB 96 X 9 /125 G657A1 HDPE (serial number) (meter mark)
Subunit, quantity	8
Fibers per Subunit, quantity	12
Total Fiber Count	96

Dimensions

Buffer Tube/Subunit Diameter	1.4 mm   0.055 in
Diameter Over Jacket	6.9 mm   0.272 in

Material Specifications

Jacket Material	High density polyethylene (HDPE)
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### Mechanical Specifications

Minimum Bend Radius, loaded	120 mm   4.724 in
Minimum Bend Radius, storage coils	85 mm   3.346 in
Minimum Bend Radius, unloaded	85 mm   3.346 in
Tensile Load, long term, maximum	400 N   89.924 lbf
Tensile Load, short term, maximum	1000 N   224.809 lbf
Compression	5 N/mm   28.551 lb/in
Compression Test Method	IEC 60794-1-21 E3
Flex	25 cycles
Impact	1 N-m   8.851 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	5 cycles
Twist Test Method	IEC 60794-1-21 E7

### Optical Specifications

Fiber Type	G.657.A1
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### Environmental Specifications

Installation temperature	-10 °C to +50 °C (+14 °F to +122 °F)
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Cable Qualification Standards	IEC 60794-1-2
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

Low High Bend	-15 °C to +23 °C (+5 °F to +73 °F)
Low High Bend Test Method	IEC 60794-1-21 E11
Temperature Cycle	-30 °C to +60 °C (-22 °F to +140 °F)

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Temperature Cycle Test Method	IEC 60794-1-22 F1
Packaging and Weights	
Cable weight	38.9 kg/km   26.14 lb/kft
Included Products	
CS-8F-LT	– Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber

## \* Footnotes

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