



Fiber OSP cable, LightScope® ZWP Blown Single Jacket All-Dielectric Outdoor Central Tube Construction, Singlemode G.652.D and G.657.A1 , 24 fiber, Gel-filled, Meters jacket marking, Black jacket color

## Product Classification

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

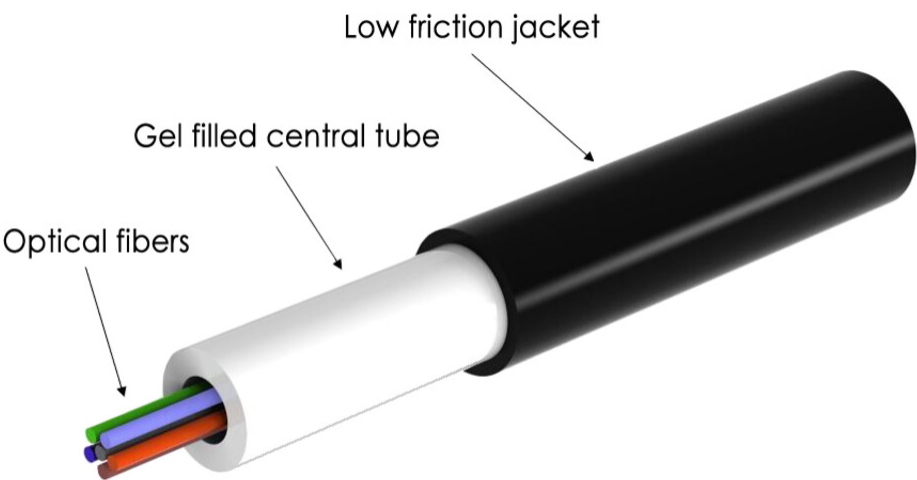
## General Specifications

Cable Type	Central tube, all dielectric   Microcable
Construction Type	Non-armored
Subunit Type	Gel-filled
Filler, quantity	0
Inner Jacket Color	White
Jacket Color	Black
Jacket Marking	Meters
Jacket Marking Method	Inkjet
Jacket Marking Text	COMMScope GB OPTICAL CABLE 810010147/DB 24x G657A1 SM [SERIAL NUMBER] [METER MARK]
Subunit, quantity	1
Fibers per Subunit, quantity	24
Total Fiber Count	24

## Dimensions

Buffer Tube/Subunit Diameter	2.2 mm   0.087 in
Diameter Over Jacket	2.5 mm   0.098 in

## Representative Image



Material Specifications

**Jacket Material** Nylon

Mechanical Specifications

<b>Minimum Bend Radius, loaded</b>	30 mm   1.181 in
<b>Minimum Bend Radius, storage coils</b>	30 mm   1.181 in
<b>Minimum Bend Radius, unloaded</b>	30 mm   1.181 in
<b>Tensile Load, long term, maximum</b>	75 N   16.861 lbf
<b>Compression</b>	10 N/mm   57.101 lb/in
<b>Compression Test Method</b>	IEC 60794-1-21 E3
<b>Flex</b>	25 cycles
<b>Impact</b>	2 N-m   17.701 in lb
<b>Impact Test Method</b>	IEC 60794-1-21 E4
<b>Strain</b>	See long and short term tensile loads
<b>Strain Test Method</b>	IEC 60794-1-21 E1
<b>Twist</b>	10 cycles
<b>Twist Test Method</b>	IEC 60794-1-21 E7

Optical Specifications

**Fiber Type** G.652.D and G.657.A1

## Environmental Specifications

Installation temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Cable Qualification Standards	IEC 60794-1-2   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 F5

## Environmental Test Specifications

Low High Bend Test Method	IEC 60794-1-21 E11
Temperature Cycle	-20 °C to +60 °C (-4 °F to +140 °F)
Temperature Cycle Test Method	IEC 60794-1-22 F1

## Packaging and Weights

Cable weight	6.9 kg/km   4.637 lb/kft
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## Included Products

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

### \* Footnotes

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

LightScope® ZWP Singlemode Fiber



Product Classification

Portfolio	CommScope®
Product Type	Optical fiber

General Specifications

Cladding Diameter	125 µm
Cladding Diameter Tolerance	±0.7 µm
Cladding Non-Circularity, maximum	0.7 %
Coating Diameter (Colored)	249 µm
Coating Diameter (Uncolored)	242 µm
Coating Diameter Tolerance (Colored)	±13 µm
Coating Diameter Tolerance (Uncolored)	±7 µm
Coating/Cladding Concentricity Error, maximum	12 µm
Core/Clad Offset, maximum	0.5 µm
Proof Tensile Stress	100,000 psi (0.69 GPa)

Dimensions

Fiber Curl, minimum	4 m   13.123 ft
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Mechanical Specifications

Macrobending, 20 mm Ø mandrel, 1 turn	0.75 dB @ 1,550 nm   1.50 dB @ 1,625 nm
Macrobending, 30 mm Ø mandrel, 10 turns	0.25 dB @ 1,550 nm   1.00 dB @ 1,625 nm
Macrobending, 60 mm Ø mandrel, 100 turns	0.05 dB @ 1,550 nm   0.05 dB @ 1,625 nm
Coating Strip Force, maximum	8.9 N   2.001 lbf
Coating Strip Force, minimum	1.3 N   0.292 lbf
Dynamic Fatigue Parameter, minimum	20

Optical Specifications

# CS-8W-250-EMEA | 8W-250um

Cabled Cutoff Wavelength, maximum	1250 nm
Point Defects, maximum	0.05 dB
Zero Dispersion Slope, maximum	0.092 ps/[km-nm-nm]
Zero Dispersion Wavelength, maximum	1324 nm
Zero Dispersion Wavelength, minimum	1300 nm

## Optical Specifications, Wavelength Specific

Attenuation, maximum	0.20 dB/km @ 1550 nm   0.23 dB/km @ 1,625 nm   0.344 dB/km @ 1310 nm   0.344 dB/km @ 1380 – 1385 nm
Dispersion, maximum	18 ps(nm-km) at 1550 nm   22 ps(nm-km) at 1625 nm   3.5 ps(nm-km) from 1285 nm to 1330 nm at 1310 nm
Index of Refraction	1.467 @ 1,310 nm   1.467 @ 1,385 nm   1.468 @ 1,550 nm
Mode Field Diameter	10.4 µm @ 1,550 nm   9.2 µm @ 1,310 nm
Mode Field Diameter Tolerance	±0.4 µm @ 1310 nm   ±0.5 µm @ 1550 nm
Polarization Mode Dispersion Link Design Value, maximum	0.05 ps/sqrt(km)
Standards Compliance	ITU-T G.652.D   ITU-T G.657.A1

## Environmental Specifications

Heat Aging, maximum	0.05 dB/km @ 85 °C
Temperature Dependence, maximum	0.05 dB/km
Temperature Humidity Cycling, maximum	0.05 dB/km
Water Immersion, maximum	0.05 dB/km @ 23 °C

## \* Footnotes

Temperature Dependence, maximum	Temperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)
Temperature Humidity Cycling, maximum	Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F) up to 95% relative humidity