



Fiber indoor/outdoor cable, LightScope® ZWP , Gel-filled loose tube, 8 fiber, Singlemode G.652.D, Meters jacket marking, Yellow jacket color, Eca flame rating

OBSOLETE

This product was discontinued on: March 31, 2023

Product Classification

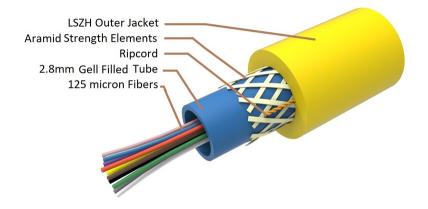
Regional Availability	Asia Australia/New Zealand EMEA
Portfolio	CommScope®
Product Type	Fiber indoor/outdoor cable
Product Series	C-DN
General Specifications	
Cable Type	Central loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Jacket Color	Yellow
Jacket Marking	Meters
Fibers per Subunit, quantity	8
Total Fiber Count	8
Dimensions	
Cable Length	1000 m 3,280.84 ft
Buffer Tube/Subunit Diameter	2.8 mm 0.11 in
Diameter Over Jacket	6.4 mm 0.252 in

Representative Image

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Mechanical Specifications

Minimum Bend Radius, loaded	130 mm 5.118 in
Minimum Bend Radius, unloaded	75 mm 2.953 in
Tensile Load, long term, maximum	400 N 89.924 lbf
Tensile Load, short term, maximum	530 N 119.149 lbf
Cable Crush Resistance, maximum	20 N/mm 114.203 lb/in
Compression Test Method	IEC 60794-1-2 E3
Impact	5 N-m 44.254 in lb
Impact Test Method	IEC 60794-1 E4

Optical Specifications

Fiber Type

G.652.D | OS2

Optical Specifications, Wavelength Specific

Attenuation, maximum

0.35 dB/km @ 1,300 nm

Environmental Specifications

Installation temperature	-20 °C to +70 °C (-4 °F to +158 °F)
Operating Temperature	-20 °C to +70 °C (-4 °F to +158 °F)

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810009861/DB | C-008-DN-8W-M08YL/28G/AY

Storage Temperature	-20 °C to +70 °C (-4 °F to +158 °F)
EN50575 CPR Cable EuroClass Fire Performance	Eca
Environmental Space	Universal Low Smoke Zero Halogen (ULSZH)
Water Penetration	24 h
Environmental Test Specifications	
Temperature Cycle	-20 °C to +70 °C (-4 °F to +158 °F)
Temperature Cycle Test Method	IEC 60794-1-2 F1
Packaging and Weights	
Cable weight	44 kg/km 29.567 lb/kft

Included Products

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

* Footnotes

/E

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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

LightScope® ZWP Singlemode Fiber

LightScope[®] 2000

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
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

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COMMSCOPE®

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

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