



Fiber indoor/outdoor cable, LightScope® ZWP, Gel-Filled, loose tube, 4 fiber, Singlemode G.652.D, Meters jacket marking, Yellow jacket color, Eca flame rating. Provides Rodent Resistance

#### 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-CN	
General Specifications		
Cable Type	Loose tube	
Subunit Type	Gel-filled	
Jacket Color	Yellow	
Jacket Marking	Meters	
Subunit, quantity	1	
Fibers per Subunit, quantity	4	
Total Fiber Count	4	
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	
Mechanical Specifications		
Minimum Bend Radius, loaded	130 mm   5.118 in	
Minimum Bend Radius, unloaded	130 mm   5.118 in	
Tensile Load, long term, maximum	650 N   146.126 lbf	

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# 810009857/DB | C-004-CN-8W-M04YL/28G/GY

Tensile Load, short term, maximum	1000 N   224.809 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
Twist	5 cycles
Twist Test Method	IEC 60794-1-21 E7
Optical Specifications	
Fiber Type	G.652.D   OS2
Optical Specifications, Wavelength Spe	ecific
Attenuation, maximum	0.25 dB/km @ 1,300 nm   0.35 dB/km @ 1,550 nm   0.45 dB/km @ 1,310 nm
Standards Compliance	TIA-492CAAB (OS2)
Environmental Specifications	
Installation temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Storage Temperature	-10 °C to +60 °C (+14 °F to +140 °F)
EN50575 CPR Cable EuroClass Fire Performance	Eca
Environmental Space	Universal Low Smoke Zero Halogen (ULSZH)
Packaging and Weights	
Cable weight	40 kg/km   26.879 lb/kft

#### Included Products

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

#### \* Footnotes

/E

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

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

#### 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)	±5 μm
Coating/Cladding Concentricity Error, maximum	12 µm
Core/Clad Offset, maximum	0.5 μm
Proof Test	689.476 N/mm²   100000 psi
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

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

Dynamic Fatigue Parameter, minimum	20
Optical Specifications	
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	0.21 dB/km @ 1,550 nm    0.24 dB/km @ 1625 nm    0.25 dB/km @ 1,490 nm    0.35 dB/km @ 1,310 nm    0.35 dB/km @ 1,385 nm
Dispersion, maximum	18 ps(nm-km) at 1550 nm ( 2.2 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   1.468 @ 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	0.06 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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