



Fiber indoor/outdoor cable, LightScope® ZWP, gel-filled, loose tube, 24 fiber, Singlemode G.652.D and G.657.A1, Meters jacket marking, Yellow jacket color, Eca flame rating

#### OBSOLETE

This product was discontinued on: March 31, 2023

#### Product Classification

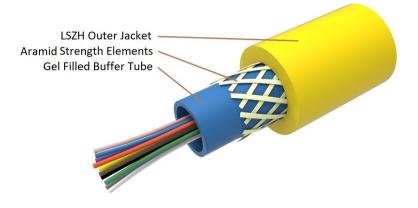
Regional Availability	Asia   Australia/New Zealand   EMEA	
Portfolio	CommScope®	
Product Type	Fiber indoor/outdoor cable	
Product Series	C-CN	
General Specifications		
Cable Type	Loose tube	
Construction Type	Non-armored	
Subunit Type	Gel-filled	
Jacket Color	Yellow	
Jacket Marking	Meters	
Subunit, quantity	1	
Fibers per Subunit, quantity	24	
Total Fiber Count	24	
Dimensions		
Cable Length	2000 m   6,561.68 ft	
Buffer Tube/Subunit Diameter	4 mm   0.157 in	
Diameter Over Jacket	8 mm   0.315 in	

### Representative Image

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## Mechanical Specifications

Minimum Bend Radius, loaded	110 mm   4.331 in
Minimum Bend Radius, unloaded	60 mm   2.362 in
Tensile Load, long term, maximum	1000 N   224.809 lbf
Tensile Load, short term, maximum	1300 N   292.252 lbf
Compression	30 N/mm   171.304 lb/in
Compression Test Method	IEC 60794-1-2 E3
Impact	20 N-m   177.015 in lb
Impact Test Method	IEC 60794-1 E4

### **Optical Specifications**

Fiber Type

OS2

### Optical Specifications, Wavelength Specific

Standards Compliance

IEC 60794-1 | TIA-492CAAB (OS2)

#### **Environmental Specifications**

Installation temperature	-5 °C to +50 °C (+23 °F to +122 °F)
Operating Temperature	-30 °C to +70 °C (-22 °F to +158 °F)

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# 810009863/DB | C-024-CN-8W-M24YL/40G/AY

Storage Temperature	-30 °C to +70 °C (-22 °F to +158 °F)
EN50575 CPR Cable EuroClass Fire Performance	Еса
EN50575 CPR Cable EuroClass Smoke Rating	s2
EN50575 CPR Cable EuroClass Droplets Rating	d2
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Universal Low Smoke Zero Halogen (ULSZH)
Water Penetration	24 h
Water Penetration Test Method	IEC 60794-1 F5
Environmental Test Specifications	
Temperature Cycle	-30 °C to +70 °C (-22 °F to +158 °F)
Temperature Cycle Test Method	IEC 60794-1-2 F1
Packaging and Weights	
Cable weight	74 kg/km   49.726 lb/kft
Included Products	
CS-8W-250-EMEA – LightScope® ZWP Singlemode Fibe 8W-250um	ſ

### \* Footnotes

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**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<sup>®</sup> 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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