

Fiber Indoor/Outdoor cable, TeraSPEED®, 120 min Fire Survival, Low Smoke Zero Halogen (LSZH), 24 fiber, Gel-Filled, Central Loose Tube, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color. Provides Rodent Resistance.

#### Product Classification

PortolioCommScope@Product TypeFiber indoor/outdoor cableProduct SeriesC-L2General SpecificationsCorrugated steelArmor TypeCorrugated steelCable TypeCentral loose tubeConstruction TypeGel-filedJaket ColorBlackJacket Marking MethodInkjetJacket Marking TextComMSCOPE GB SYSTEM F.O. CABLE X-1716216-4 INT/EXT FIRE SURVIVAL 24 X 9/125 OS2 (Serial NUMBER) (METRE MARK)Fibers per Subunit, quantity1Fibers per Subunit, quantity24Jaffer Tube/Subunit Diameter4mm   0.157 inJamet Type4mm   0.157 in	Regional Availability	Asia   Australia/New Zealand   EMEA
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Subunit, quantity1Fibers per Subunit, quantity24Total Fiber Count24Dimensions4 mm   0.157 in	Jacket Marking Method	Inkjet
Fibers per Subunit, quantity24Total Fiber Count24Dimensions4 mm   0.157 in	Jacket Marking Text	
Total Fiber Count     24       Dimensions     4 mm   0.157 in	Subunit, quantity	1
Dimensions Buffer Tube/Subunit Diameter 4 mm   0.157 in	Fibers per Subunit, quantity	24
Buffer Tube/Subunit Diameter4 mm   0.157 in	Total Fiber Count	24
	Dimensions	
Diameter Over Jacket12.7 mm   0.5 in	Buffer Tube/Subunit Diameter	4 mm   0.157 in
	Diameter Over Jacket	12.7 mm   0.5 in

### Representative Image

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LSZH Outer Jacket Corrugated Steel Armoring Ripcord Internal LSZH Jacket E-Glass Strength Elements Gel-Filled PBT Tube Optical Fibres

### Mechanical Specifications

Minimum Bend Radius, loaded	330 mm   12.992 in
Minimum Bend Radius, unloaded	255 mm   10.039 in
Tensile Load, long term, maximum	400 N   89.924 lbf
Tensile Load, short term, maximum	1400 N   314.733 lbf
Compression	30 N/mm   171.304 lb/in
Compression Test Method	IEC 60794-1 E3
Impact	10 N-m   88.507 in lb
Impact Test Method	IEC 60794-1 E4
Strain	See long and short term tensile loads
Strain Test Method	IEC 60794-1 E1
Twist	5 cycles
Twist Test Method	IEC 60794-1 E7
Optical Specifications	
Fiber Type	G.652.D and G.657.A1, TeraSPEED®   OS2

#### **Environmental Specifications**

**Operating Temperature** 

-20 °C to +70 °C (-4 °F to +158 °F)

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Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Cable Qualification Standards	EN 187105   IEC 60794-1-2
EN50575 CPR Cable EuroClass Fire Performance	B2ca
EN50575 CPR Cable EuroClass Smoke Rating	s1b
EN50575 CPR Cable EuroClass Droplets Rating	d0
EN50575 CPR Cable EuroClass Acidity Rating	al
Environmental Space	Aerial, lashed   Buried   Low Smoke Zero Halogen (LSZH)
Flame Test Listing	EN 50399   IEC 60332-1-2
Flame Test Method	IEC 60331-25 (120) Fire resistance: 120 minutes at 750 °C (no fiber break)   IEC 60332-1   IEC 60754-2   IEC 61034-2
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 E11

Low High Bend Test Method	IEC 60794-1 E11
Temperature Cycle	-20 °C to +70 °C (-4 °F to +158 °F)
Temperature Cycle Test Method	IEC 60794-1 F1

#### Packaging and Weights

**Cable weight** 

216 kg/km | 145.145 lb/kft

### Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



#### Included Products

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

## \* 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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