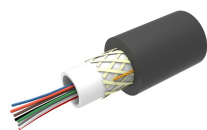


# 810009821/DB | C-008-CN-8W-M08BK/32G/AY /D



Fiber indoor/outdoor cable, LightScope® ZWP , Gel-Filled loose tube, 8 fiber, Singlemode G.652.D and G.657.A1, Meters jacket marking, Black jacket color, Dca flame rating

## 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	Central loose tube
Subunit Type	Gel-filled
Jacket Color	Black
Jacket Marking	Meters
Jacket Marking Method	Inkjet
Jacket Marking Text	COMMScope GB F.O. CABLE 810009821/DB INT/EXT GLT 8X9 /125 OS2 EN50575 CLASS D [Serial NUMBER] [METRE MARK]
Subunit, quantity	1
Fibers per Subunit, quantity	8
Total Fiber Count	8

## Dimensions

Cable Length	2000 m   6,561.68 ft
Buffer Tube/Subunit Diameter	3.2 mm   0.126 in
Diameter Over Jacket	7 mm   0.276 in

## Material Specifications

Jacket Material	Low Smoke Zero Halogen (LSZH)
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## Mechanical Specifications

Minimum Bend Radius, loaded	129.5 mm   5.098 in
Minimum Bend Radius, unloaded	80 mm   3.15 in

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## /D

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<b>Tensile Load, long term, maximum</b>	650 N   146.126 lbf
<b>Tensile Load, short term, maximum</b>	1250 N   281.011 lbf
<b>Cable Crush Resistance, maximum</b>	12 N/mm   68.522 lb/in
<b>Compression Test Method</b>	IEC 60794-1-2 E3
<b>Impact</b>	5 N-m   44.254 in lb
<b>Impact Test Method</b>	IEC 60794-1 E4
<b>Twist</b>	10 cycles
<b>Twist Test Method</b>	IEC 60794-1 E7

### Optical Specifications

<b>Fiber Type</b>	G.652.D and G.657.A1
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### Environmental Specifications

<b>Installation temperature</b>	-25 °C to +70 °C (-13 °F to +158 °F)
<b>Operating Temperature</b>	-25 °C to +70 °C (-13 °F to +158 °F)
<b>Storage Temperature</b>	-25 °C to +70 °C (-13 °F to +158 °F)
<b>EN50575 CPR Cable EuroClass Fire Performance</b>	Dca
<b>EN50575 CPR Cable EuroClass Smoke Rating</b>	s2
<b>EN50575 CPR Cable EuroClass Droplets Rating</b>	d2
<b>EN50575 CPR Cable EuroClass Acidity Rating</b>	a2
<b>Environmental Space</b>	Universal Low Smoke Zero Halogen (ULSZH)
<b>Water Penetration</b>	336 h
<b>Water Penetration Test Method</b>	IEC 60794-1 F5

### Environmental Test Specifications

<b>Temperature Cycle</b>	-25 °C to +70 °C (-13 °F to +158 °F)
<b>Temperature Cycle Test Method</b>	IEC 60794-1-2 F1

### Packaging and Weights

<b>Cable weight</b>	50 kg/km   33.598 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