# 810009835/DB | 0-012-CA-8W-M12BK/GY/HD



Fiber OSP cable, 12-fiber, OS2, HDPE, loose tube, 12 fiber, gel-filled, Singlemode G.652.D and G.657.A1, 1000 m, Meters jacket marking, Black jacket color

#### Product Classification

Regional Availability	Australia/New Zealand   EMEA
Portfolio	CommScope®
Product Type	Fiber OSP cable
Product Series	O-CA
General Specifications	
Armor Type	Corrugated steel
Cable Type	Loose tube
Subunit Type	Gel-filled
Filler, quantity	1
Jacket Color	Black
Jacket Marking	Meters
Jacket Marking Method	Inkjet
Jacket Marking Text	COMMSCOPE GB SYSTEM F.O. CABLE 810009835/DB CSA GEL LOOSE TUBE 12X9 /125 OS2 HDPE (Serial NUMBER) (METRE MARK)
Fibers per Subunit, quantity	12
Total Fiber Count	12
Dimensions	
Cable Length	1000 m   3,280.84 ft
Diameter Over Jacket	10 mm   0.394 in
Material Specifications	
Jacket Material	High density polyethylene (HDPE)
Mechanical Specifications	
Minimum Bend Radius, loaded	150 mm   5.906 in

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Minimum Bend Radius, unloaded	100 mm   3.937 in
Tensile Load, long term, maximum	1250 N   281.011 lbf
Flex	25 cycles

#### **Optical Specifications**

Fiber Type

G.652.D and G.657.A1

#### Optical Specifications, Wavelength Specific

Attenuation, maximum	0.35 dB/km @ 1,300 nm   0.35 dB/km @ 1,550 nm   0.45 dB/km @ 1,310 nm
Standards Compliance	IEC 60794-1   TIA-492CAAB (OS2)

#### **Environmental Specifications**

Installation temperature	-5 °C to +50 °C (+23 °F to +122 °F)
Operating Temperature	-20 °C to +70 °C (-4 °F to +158 °F)
Storage Temperature	-20 °C to +70 °C (-4 °F to +158 °F)

#### Packaging and Weights

Cable weight 10	04 kg/km	69.885 lb/kft
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#### 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

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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