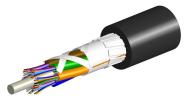
810009760/DB | C-004-LN-8W-M04BK/20G/D



Fiber indoor/outdoor cable, LightScope ZWP®, Mini Single Jacket, All-Dielectric, Low Smoke Zero Halogen (LSZH), Singlemode G.652.D and G. 657.Al, 4 fiber, Gel-Filled, Stranded Loose Tube, Meters jacket marking, Black jacket color, Dca flame rating

Product Classification

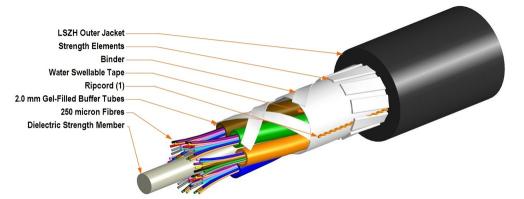
Regional Availability	Asia Australia/New Zealand EMEA
Portfolio	CommScope®
Product Type	Fiber indoor/outdoor cable
Product Series	C-LN
General Specifications	
Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Filler, quantity	5
Jacket Color	Black
Jacket Marking	Meters
Jacket Marking Method	Inkjet
Jacket Marking Text	COMMSCOPE GB OPTICAL CABLE 810009760/DB 4X OS2 SM LSZH EN50575 CLASS D [SERIAL NUMBER] [METRE MARK]
Subunit, quantity	1
Fibers per Subunit, quantity	4
Total Fiber Count	4
Dimensions	
Buffer Tube/Subunit Diameter	2 mm 0.079 in
Diameter Over Jacket	11.1 mm 0.437 in

Representative Image

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810009760/DB | C-004-LN-8W-M04BK/20G/D



Mechanical Specifications

Minimum Bend Radius, loaded	166 mm 6.535 in
Minimum Bend Radius, unloaded	111 mm 4.37 in
Tensile Load, long term, maximum	800 N 179.847 lbf
Tensile Load, short term, maximum	2700 N 606.984 lbf
Compression	22 N/mm 125.623 lb/in
Compression Test Method	IEC 60794-1 E3
Flex	25 cycles
Flex Test Method	IEC 60794-1 E6
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	10 cycles
Twist Test Method	IEC 60794-1 E7
Vertical Rise, maximum	639 m 2,096.457 ft
Optical Specifications	
Fiber Type	G.652.D and G.657.A1, TeraSPEED® OS2

Environmental Specifications

Installation temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)

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810009760/DB | C-004-LN-8W-M04BK/20G/D

Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Cable Qualification Standards	EN 187105 IEC 60794-1-2
EN50575 CPR Cable EuroClass Fire Performance	Dca
EN50575 CPR Cable EuroClass Smoke Rating	s1
EN50575 CPR Cable EuroClass Droplets Rating	d0
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Aerial, lashed Buried Low Smoke Zero Halogen (LSZH)
Flame Test Method	IEC 60332-1-2 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

Cable Freeze	-2 °C 28.4 °F
Cable Freeze Test Method	IEC 60794-1 F15
Drip	70 °C 158 °F
Drip Test Method	IEC 60794-1 E14
Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)
Heat Age Test Method	IEC 60794-1 F9
Low High Bend	-30 °C to +60 °C (-22 °F to +140 °F)
Low High Bend Test Method	IEC 60794-1 E11
Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)
Temperature Cycle Test Method	IEC 60794-1 F1

Packaging and Weights

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

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Included Products

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

* Footnotes

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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COMMSCOPE°

CS-8W-250-EMEA | 250um

20
1250 nm
0.05 dB
0.092 ps/[km-nm-nm]
1324 nm
1300 nm
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
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
1.467 @ 1,310 nm 1.468 @ 1,550 nm
10.4 μm @ 1,550 nm 9.2 μm @ 1,310 nm
±0.4 μm @ 1310 nm ±0.5 μm @ 1550 nm
0.06 ps/sqrt(km)
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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