2-1716217-4 | C-008-L2-8W-M08BK/40G/GY/FS /B



Fiber Indoor/Outdoor cable, TeraSPEED®, 120 min Fire Survival, Low Smoke Zero Halogen (LSZH), Gel-Filled, Central Loose Tube, Singlemode G.652.D & OS2, Meters jacket marking, Black jacket color. Provides Rodent Resistance.

Product Classification

Regional Availability	Asia Australia/New Zealand EMEA
Portfolio	CommScope®
Product Type	Fiber indoor/outdoor cable
Product Series	C-L2
General Specifications	
Armor Type	Corrugated steel
Cable Type	Central loose tube
Construction Type	Armored
Subunit Type	Gel-filled
Jacket Color	Black
Jacket Marking	Meters
Jacket Marking Method	Inkjet
Jacket Marking Text	COMMSCOPE GB F O CABLE X-1716217-4 INT/EXT FIRE SURVIVAL 8 X 9 /125 OS2 [Serial NUMBER] [METRE MARK]
Subunit, quantity	1
Fibers per Subunit, quantity	8
Total Fiber Count	8
Dimensions	
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

330 mm 12.992 in
255 mm 10.039 in
400 N 89.924 lbf
1400 N 314.733 lbf
30 N/mm 171.304 lb/in
IEC 60794-1 E3
10 N-m 88.507 in lb
IEC 60794-1 E4
See long and short term tensile loads
IEC 60794-1 E1
5 cycles
IEC 60794-1 E7
G.652.D OS2

Environmental Specifications

Operating Temperature

-20 °C to +70 °C (-4 °F to +158 °F)

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Storage Temperature	-33 °C to +40 °C (-27.4 °F to +104 °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	EN 50399 IEC 60331-25 (120) Fire resistance: 120 minutes at 750 °C (no fiber break) 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	

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

/B

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 250um

* Footnotes

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2-1716217-4 | C-008-L2-8W-M08BK/40G/GY/FS /B

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/mm ² 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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CS-8W-250-EMEA | 250um

20	
1250 nm	
0.05 dB	
0.092 ps/[km-nm-nm]	
1324 nm	
1300 nm	
Optical Specifications, Wavelength Specific	
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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