760251960 | C-024-LN-8Z-M06BK/18G/093



Fiber indoor/outdoor cable, Loose Tube Gel-filled, 24 fiber, Singlemode G. 652.D and G.657.A1, Meters jacket marking, Black jacket color

Product Classification

Regional Availability	Asia Australia/New Zealand
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
Jacket Color	Black
Jacket Marking	Meters
Fibers per Subunit, quantity	6
Total Fiber Count	24
Dimensions	
Buffer Tube/Subunit Diameter	1.8 mm 0.071 in
Diameter Over Jacket	10 mm 0.394 in

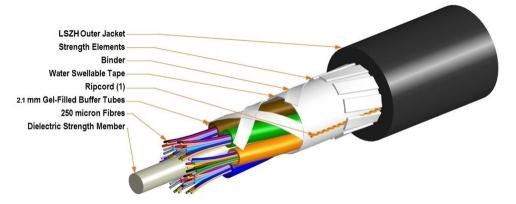
Representative Image

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Mechanical Specifications

Minimum Bend Radius, loaded	200 mm 7.874 in
Minimum Bend Radius, unloaded	100 mm 3.937 in
Tensile Load, long term, maximum	890 N 200.08 lbf
Tensile Load, short term, maximum	2700 N 606.984 lbf
Compression	10 N/mm 57.101 lb/in
Compression Test Method	IEC 60794-1-2 E3
Strain	See long and short term tensile loads
Strain Test Method	IEC 60794-1-21 E1

Optical Specifications

Fiber Type

G.652.D and G.657.A1 | OS2

Optical Specifications, Wavelength Specific

Attenuation, maximum

0.30 dB/km @ 1,550 nm | 0.40 dB/km @ 1,310 nm

Environmental Specifications

Installation temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Environmental Space	Buried Ducted Indoor/Outdoor Low Smoke Zero Halogen (LSZH)
Flame Test Method	IEC 60332-1
Water Penetration	24 h
Water Penetration Test Method	IEC 60794-1 F5C

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Environmental Test Specifications

Temperature Cycle

-40 °C to +70 °C (-40 °F to +158 °F)

Temperature Cycle Test Method

IEC 60794-1-2 F1

Packaging and Weights

Cable weight

107 kg/km | 71.901 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-8Z-LT

 Low Water Peak, Dispersion-Unshifted Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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Low Water Peak, Dispersion-Unshifted 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	1 %	
Coating Diameter (Colored)	250 µm	
Coating Diameter (Uncolored)	245 µm	
Coating Diameter Tolerance (Colored)	±15 μm	
Coating Diameter Tolerance (Uncolored)	±10 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, 32 mm Ø mandrel, 1 turn	0.50 dB @ 1,550 nm	
Macrobending, 50 mm Ø mandrel, 100 turns	0.05 dB @ 1,550 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	18	
Optical Specifications		
Cabled Cutoff Wavelength, maximum	1260 nm	
Point Defects, maximum	0.1 dB	
Zero Dispersion Slope, maximum	0.092 ps/[km-nm-nm]	
Zero Dispersion Wavelength, maximum	1324 nm	

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CS-8Z-LT

1300 nm Zero Dispersion Wavelength, minimum Optical Specifications, Wavelength Specific Attenuation, maximum 0.25 dB/km @ 1,550 nm | 0.35 dB/km @ 1,310 nm | 0.35 dB/km @ 1,385 nm Index of Refraction 1.467 @ 1,310 nm | 1.468 @ 1,550 nm **Mode Field Diameter** 10.4 µm @ 1,550 nm | 9.2 µm @ 1,310 nm | 9.6 µm @ 1,385 nm **Mode Field Diameter Tolerance** ±0.4 µm @ 1310 nm | ±0.5 µm @ 1550 nm | ±0.6 µm @ 1385 nm Polarization Mode Dispersion Link Design Value, maximum 0.08 ps/sqrt(km) **Standards Compliance** ITU-T G.652.D | ITU-T G.657.A1 | TIA-492CAAB (OS2) **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

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

* 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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