760251961 | C-036-LN-8Z-M12BK/21G/093



Fiber indoor/outdoor cable, Loose Tube Gel-filled, 36 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
Filler, quantity	3
Jacket Color	Black
Jacket Marking	Meters
Subunit, quantity	3
Fibers per Subunit, quantity	12
Total Fiber Count	36
Dimensions	
Buffer Tube/Subunit Diameter	2.1 mm 0.083 in
Diameter Over Jacket	10.7 mm 0.421 in

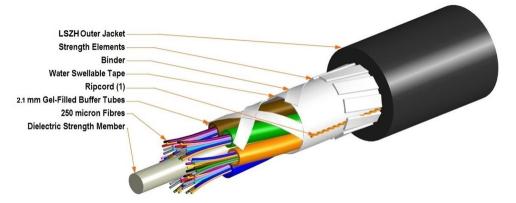
Representative Image

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Mechanical Specifications

Minimum Bend Radius, loaded	214 mm 8.425 in
Minimum Bend Radius, unloaded	107 mm 4.213 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

0.3 dB/km @ 1,625 nm | 0.30 dB/km @ 1,550 nm | 0.4 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 F5B

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Environmental Test Specifications

Temperature C	ycle
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-40 °C to +70 °C (-40 °F to +158 °F)

Temperature Cycle Test Method

IEC 60794-1-2 F1

Packaging and Weights

Cable weight

117 kg/km | 78.62 lb/kft

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 Tensile Stress** 100,000 psi (0.69 GPa) Dimensions 4 m | 13.123 ft Fiber Curl, minimum 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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