760249099 | C-096-LN-8F-M12BK/14D/AY/D



Fiber Indoor/Outdoor Cable, Low Smoke Zero Halogen, 96 fiber, Microsheath, Singlemode, G.657.A1, Gel-free, 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 microsheath tube	
Subunit Type	Gel-free	
Jacket Color	Black	
Jacket Marking	Meters	
Jacket Marking Method	Inkjet	
Jacket Marking Text	COMMSCOPE GB F.O. CABLE 760249099 96x9/125 ITU-T G. 657A1 EN50575 CLASS D ULSZH (serial number) (metre mark)	
Subunit, quantity	8	
Fibers per Subunit, quantity	12	
Total Fiber Count	96	
Dimensions		
Cable Length	2000 m 6,561.68 ft	
Diameter Over Jacket	6.8 mm 0.268 in	

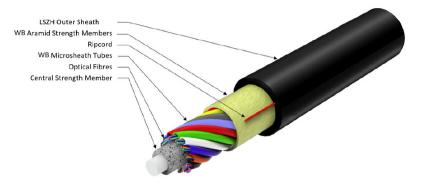
Representative Image

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Mechanical Specifications

100 mm 3.937 in
55 mm 2.165 in
200 N 44.962 lbf
700 N 157.366 lbf
10 N/mm 57.101 lb/in
IEC 60794-1-21 E3
2 N-m 17.701 in lb
IEC 60794-1-21 E4
IEC 60794-1-21 E1

Optical Specifications

Fiber Type

G.657.A1

Optical Specifications, Wavelength Specific

 Attenuation, maximum
 0.25 dB/km @ 1,550 nm | 0.27 dB/km @ 1,490 nm | 0.27 dB/km @ 1,625 nm | 0.36 dB/km @ 1,310 nm

 Standards Compliance
 TIA-492CAAB (OS2)

Environmental Specifications

Operating Temperature

-40 °C to +70 °C (-40 °F to +158 °F)

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EN50575 CPR Cable EuroClass Fire Performance	Dca	
EN50575 CPR Cable EuroClass Smoke Rating	s1a	
EN50575 CPR Cable EuroClass Droplets Rating	d2	
EN50575 CPR Cable EuroClass Acidity Rating	al	
Environmental Space	Universal Low Smoke Zero Halogen (ULSZH)	
Water Penentration Test Method	IEC 60794-1 F5	
Environmental Test Specifications		
Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)	
Temperature Cycle Test Method	IEC 60794-1-22 F1	
Packaging and Weights		
Cable weight	40 kg/km 26.879 lb/kft	
Included Products		
CS-8F-LT – Low Macrobending, Zero V Fiber	Vater Peak, Dispersion-Unshifted Singlemode	

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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Low Macrobending, Zero 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	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, 50 mm Ø mandrel, 100 turns	0.03 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	
Cabled Cutoff Wavelength, maximum	1260 nm
Point Defects, maximum	0.1 dB
Zero Dispersion Slope, maximum	0.09 ps/[km-nm-nm]

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CS-8F-LT

Zero Dispersion Wavelength, maximum Zero Dispersion Wavelength, minimum	1324 nm 1300 nm
Optical Specifications, Wavelength Specific	
Attenuation, maximum	0.25 dB/km @ 1,550 nm 0.27 dB/km @ 1,490 nm 0.27 dB/km @ 1,625 nm 0.33 dB/km @ 1,385 nm 0.36 dB/km @ 1,310 nm
Dispersion, maximum	18 ps(nm-km) at 1550 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	8.6 μm @ 1,310 nm 🕴 9.8 μm @ 1,550 nm
Mode Field Diameter Tolerance	±0.4 μm @ 1310 nm ±0.5 μm @ 1550 nm
Polarization Mode Dispersion Link Design Value, maximum	0.06 ps/sqrt(km)
Standards Compliance	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

Ag	jer	ıc	y

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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