810010189/DB | C-001-DN-8F-M01BK/20G-P001



Fiber indoor/outdoor cable, LightScope ZWP® Gel-filled loose tube, 1 fiber, Singlemode G.657.A1, 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-DN
General Specifications	
Cable Type	Central loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Jacket Color	Black
Jacket Marking	Meters
Jacket Marking Method	Inkjet
Jacket Marking Text	OPTICAL CABLE COMMSCOPE ADSS-NOTKtcdD 1J7A1 (1x1)OF 1,5kN {Serial Number} MM/YYYY 1234 M
Subunit, quantity	1
Fibers per Subunit, quantity	1
Total Fiber Count	1
Dimensions	
Buffer Tube/Subunit Diameter	2 mm 0.079 in
Diameter Over Jacket	5.05 mm 0.199 in

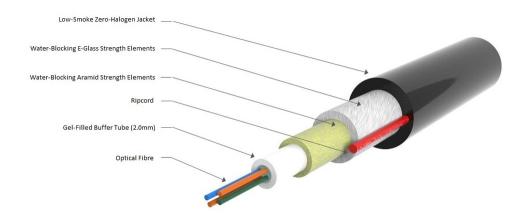
Representative Image

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Mechanical Specifications

Minimum Bend Radius, loaded	25 mm 0.984 in
Minimum Bend Radius, unloaded	25 mm 0.984 in
Tensile Load, long term, maximum	400 N 89.924 lbf
Tensile Load, short term, maximum	1500 N 337.214 lbf
Cable Crush Resistance, maximum	15 N/mm 85.652 lb/in
Compression	15 N/mm 85.652 lb/in
Compression Test Method	IEC 60794-1-2 E3
Impact	3 N-m 26.552 in lb
Impact Test Method	IEC 60794-1 E4
Twist	5 cycles
Twist Test Method	IEC 60794-1 E7

Optical Specifications

Fiber Type

G.657.A1

Optical Specifications, Wavelength Specific

Attenuation, maximum

0.35 dB/km @ 1,300 nm

Environmental Specifications

Installation temperature	-10 °C to +70 °C (+14 °F to +158 °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)

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Cable Qualification Standards	IEC 60794-1-2	
EN50575 CPR Cable EuroClass Fire Perform	rmance Dca	
EN50575 CPR Cable EuroClass Smoke Ra	ting s1a	
EN50575 CPR Cable EuroClass Droplets R	d0	
EN50575 CPR Cable EuroClass Acidity Ra	ting a1	
Environmental Space	Drop Universal Low Smoke Zero Halogen (ULSZH)	
Flame Test Listing	IEC 60332-1-2	
Flame Test Method	EN 50399 IEC 60754-2 IEC 61034-2	
Water Penetration	24 h	
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	34 kg/km 22.847 lb/kft	
Included Products		
CS-8F-LT – Low Mad Fiber	crobending, Zero Water 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 \mid 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

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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