760244231 | C-012-DN-8G-M12BK/20G/D



Fiber indoor/outdoor cable, LightScope® ZWP Gel-filled loose tube, 12 fiber, Singlemode G.657.A2, 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	COMMSCOPE GB OPTICAL CABLE 760244231 12F ITU-T G657A2 LSZH [Serial NUMBER] [METRE MARK]
Subunit, quantity	1
Fibers per Subunit, quantity	12
Total Fiber Count	12
Dimensions	
Buffer Tube/Subunit Diameter	2 mm 0.079 in
Diameter Over Jacket	5.05 mm 0.199 in

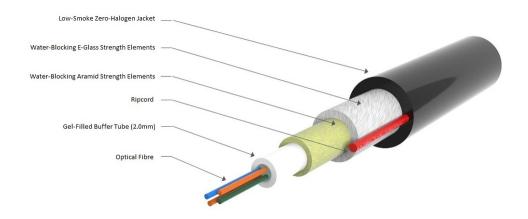
Representative Image

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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.A2

Optical Specifications, Wavelength Specific

Attenuation, maximum

0.35 dB/km @ 1,300 nm

Environmental Specifications

Installation temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	0 °C to +70 °C (+32 °F to +158 °F)

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Cable Qualification Standards	IEC 60794-1-2
EN50575 CPR Cable EuroClass Fire Perfo	mance Dca
EN50575 CPR Cable EuroClass Smoke Ra	ting s1a
EN50575 CPR Cable EuroClass Droplets	ating 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 Specifi	ations
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-8G-LT -	Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657.A2, B2)
* Contrator	

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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CS-8G-LT

Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G. 657.A2, B2)

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 Tensile Stress	100,000 psi (0.69 GPa)
Dimensions	
Fiber Curl, minimum	4 m 13.123 ft
Mechanical Specifications	
Macrobending, 15 mm Ø mandrel, 1 turn	0.50 dB @ 1,550 nm 1.00 dB @ 1,625 nm
Macrobending, 20 mm Ø mandrel, 1 turn	0.10 dB @ 1,550 nm 0.20 dB @ 1,625 nm
Macrobending, 30 mm Ø mandrel, 10 turns	0.03 dB @ 1,550 nm 0.10 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

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CS-8G-LT

Zero Dispersion Slope, maximum	0.092 ps/[km-nm-nm]
Zero Dispersion Wavelength, maximum	1324 nm
Zero Dispersion Wavelength, minimum	1302 nm
Optical Specifications, Wavelength Specific	
Attenuation, maximum	0.25 dB/km @ 1,550 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.A2 ITU-T G.657.B2

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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