# 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

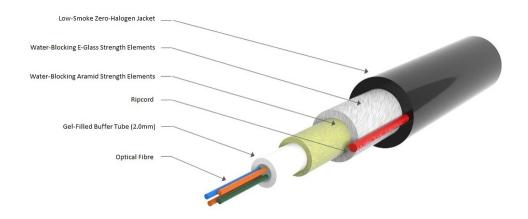
Representative Image

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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 Perfe	mance Dca	
EN50575 CPR Cable EuroClass Smoke R	ing s1a	
EN50575 CPR Cable EuroClass Droplets	ting d0	
EN50575 CPR Cable EuroClass Acidity R	ing al	
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 -	nhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (I .657.A2, B2)	ITU-T
* Faataataa		

#### \* 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 Test	689.476 N/mm²   100000 psi
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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