## 810010141/DB | C-002-DN-8G-M02BK/15G/V6/D



Product Classification

Fiber Drop Cable, Façade, Duct and Aerial, FTTH, 4 fibers, Singlemode, G. 657.A2, Gel-filled, Meters jacket marking, White jacket, 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   Drop   Tight buffer
Construction Type	Non-armored
Subunit Type	Gel-filled
Inner Jacket Color	White
Jacket Color	Black
Jacket Marking	Meters
Jacket Marking Method	Inkjet
Jacket Marking Text	COMMSCOPE GB F.O. CABLE 810009825 /DB G657A2 SM 2 FIBER CLASS D [SERIAL NUMBER] [MM /YY] [METRE MARK]
Subunit, quantity	1
Fibers per Subunit, quantity	2
Total Fiber Count	2
Dimensions	
Cable Length	1,999.793 m   6561 ft
Buffer Tube/Subunit Diameter	1.5 mm   0.059 in
Diameter Over Jacket	4.5 mm   0.177 in

#### Representative Image

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# 810010141/DB | C-002-DN-8G-M02BK/15G/V6/D

Low Smoke Zero-Halogen Jacket Water Blocking E-Glass Ripcord Aramid Yarn 1.5mm Gel Filled Tube Optical Fiber



Low Smoke Zero Halogen (LSZH)

#### Material Specifications

**Jacket Material** 

#### Mechanical Specifications

Minimum Bend Radius, loaded 75 mm | 2.953 in Tensile Load, long term, maximum 300 N | 67.443 lbf 1000 N | 224.809 lbf Tensile Load, short term, maximum Compression 10 N/mm | 57.101 lb/in IEC 60794-1 E3 **Compression Test Method** 2 N-m | 17.701 in lb Impact Impact Test Method IEC 60794-1 E4 Strain See long and short term tensile loads Strain Test Method IEC 60794-1 E1 Twist 5 cycles Twist Test Method IEC 60794-1 E7 **Optical Specifications** Fiber Type G.657.A2

#### **Environmental Specifications**

Installation temperature	0 °C to +60 °C (-32 °F to +140 °F)
Operating Temperature	-25 °C to +70 °C (-13 °F to +158 °F)

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# 810010141/DB | C-002-DN-8G-M02BK/15G/V6/D

Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Cable Qualification Standards	IEC 60794-1-2
EN50575 CPR Cable EuroClass Fire Perfe	ormance Dca
EN50575 CPR Cable EuroClass Smoke R	lating s1a
EN50575 CPR Cable EuroClass Droplets	Rating d1
EN50575 CPR Cable EuroClass Acidity R	lating a1
Environmental Space	Drop   Ducted   Façade   Indoor/Outdoor   UV resistant for outdoor and Low Smoke Zero Halogen
Jacket UV Resistance	UV stabilized
Water Penetration	24 h
Water Penetration Test Method	IEC 60794-1 F5
Environmental Test Specifications	
Temperature Cycle	-25 °C to +70 °C (-13 °F to +158 °F)
Temperature Cycle Test Method	IEC 60794-1-22 F1
Packaging and Weights	
Cable weight	26 kg/km   17.471 lb/kft
Included Products	
CS-8G-TB –	Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657.A2, B2)

#### \* Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable

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## CS-8G-TB

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-TB

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	0.50 dB/km @ 1,310 nm   0.50 dB/km @ 1,385 nm   0.50 dB/km @ 1,550 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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