## 760243202 | C-001-DN-8G-M01BK/15G/V6/D



Fiber Drop Cable, Façade, Duct and Aerial, FTTH, 1 fiber, Singlemode, G. 657.A2, Gel-filled, Meters jacket marking, Black jacket color, Dca Flame Rating

#### **Product Classification**

Regional Availability

Asia | Australia/New Zealand | EMEA | North America

Portfolio CommScope®

Product Type Fiber indoor/outdoor cable

**Product Series** C-DN

General Specifications

 Cable Type
 Central loose tube
 | Drop

 Construction Type
 Breakout
 | 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 [YYYY] 1F.O. 10.D-7 A2 EXT CLASS Dca-s1, d0, a1

[SERIAL NUMBER] [MM/YY] [METRES] M

Subunit, quantity 1

Fibers per Subunit, quantity 1

Total Fiber Count 1

**Dimensions** 

**Cable Length** 1,999.793 m | 6561 ft

Buffer Tube/Subunit Diameter1.5 mm | 0.059 inDiameter Over Jacket4.5 mm | 0.177 in

Material Specifications

Jacket Material Low Smoke Zero Halogen (LSZH)



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#### Mechanical Specifications

Minimum Bend Radius, loaded75 mm | 2.953 inTensile Load, long term, maximum300 N | 67.443 lbfTensile Load, short term, maximum1000 N | 224.809 lbfCompression10 N/mm | 57.101 lb/in

Compression Test Method IEC 60794-1 E3

**Impact** 2 N-m | 17.701 in lb

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, TeraSPEED®

#### **Environmental Specifications**

Installation temperature  $0 \, ^{\circ}\text{C} \, \text{to} + 60 \, ^{\circ}\text{C} \, (-32 \, ^{\circ}\text{F} \, \text{to} + 140 \, ^{\circ}\text{F})$ Operating Temperature  $-25 \, ^{\circ}\text{C} \, \text{to} + 70 \, ^{\circ}\text{C} \, (-13 \, ^{\circ}\text{F} \, \text{to} + 158 \, ^{\circ}\text{F})$ Storage Temperature  $-40 \, ^{\circ}\text{C} \, \text{to} + 70 \, ^{\circ}\text{C} \, (-40 \, ^{\circ}\text{F} \, \text{to} + 158 \, ^{\circ}\text{F})$ 

Cable Qualification Standards IEC 60794-1-2

EN50575 CPR Cable EuroClass Fire PerformanceDcaEN50575 CPR Cable EuroClass Smoke Ratings1EN50575 CPR Cable EuroClass Droplets Ratingd0EN50575 CPR Cable EuroClass Acidity Ratinga1

Environmental SpaceOutdoorJacket UV ResistanceUV stabilized

Water Penetration 24 h

Water Penetration Test Method IEC 60794-1 F5

**Environmental Test Specifications** 

**Temperature Cycle**  $-25 \,^{\circ}\text{C} \text{ to } +70 \,^{\circ}\text{C} \, (-13 \,^{\circ}\text{F to } +158 \,^{\circ}\text{F})$ 

**Temperature Cycle Test Method** IEC 60794-1-22 F1

COMMSC PE°

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### 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



## 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 ±0.7 µm **Cladding Diameter Tolerance** 0.7 % Cladding Non-Circularity, maximum **Coating Diameter (Colored)**  $249 \, \mu m$ **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, maximum8.9 N | 2.001 lbfCoating Strip Force, minimum1.3 N | 0.292 lbf

Dynamic Fatigue Parameter, minimum 20

**Optical Specifications** 

Cabled Cutoff Wavelength, maximum1260 nmPoint Defects, maximum0.1 dB

COMMSCOPE®

### CS-8G-TB

**Zero Dispersion Slope, maximum** 0.092 ps/[km-nm-nm]

Zero Dispersion Wavelength, maximum1324 nmZero Dispersion Wavelength, minimum1302 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

 $\textbf{Mode Field Diameter} \hspace{1.5cm} 8.6~\mu m \ @ 1,310~nm \hspace{0.2cm} | \hspace{0.2cm} 9.8~\mu m \ @ 1,550~nm$ 

**Mode Field Diameter Tolerance**  $\pm 0.4 \,\mu\text{m}$  @ 1310 nm |  $\pm 0.5 \,\mu\text{m}$  @ 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

