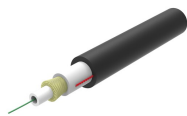


810009825/DB | C-001-DN-8G-M01BK/15G/V6/D



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

Product Classification

|                       |                                     |
|-----------------------|-------------------------------------|
| Regional Availability | Asia   Australia/New Zealand   EMEA |
| Portfolio             | CommScope®                          |
| Product Type          | Fiber indoor/outdoor cable          |
| Product Series        | C-DN                                |

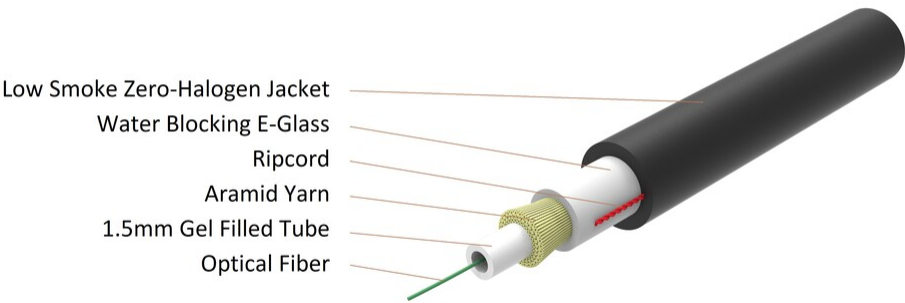
General Specifications

|                              |  |
|------------------------------|--|
| Cable Type                   | Central loose tube   Drop   Tight buffer   |
| Construction Type            | 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 F.O. CABLE 810009825/DB G657A2 SM 1<br>FIBER CLASS D [SERIAL NUMBER] [MM/YY] [METRE MARK] |
| Subunit, quantity            | 1  |
| Fibers per Subunit, quantity | 1  |
| Total Fiber Count            | 1  |

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



Material Specifications

Jacket Material

Low Smoke Zero Halogen (LSZH)

Mechanical Specifications

Minimum Bend Radius, loaded

75 mm | 2.953 in

Tensile Load, long term, maximum

300 N | 67.443 lbf

Tensile Load, short term, maximum

1000 N | 224.809 lbf

Compression

10 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 °C to +60 °C (-32 °F to +140 °F)

Operating Temperature

-25 °C to +70 °C (-13 °F to +158 °F)

810009825/DB | C-001-DN-8G-M01BK/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 Performance | Dca                                  |
| EN50575 CPR Cable EuroClass Smoke Rating     | s1a                                  |
| EN50575 CPR Cable EuroClass Droplets Rating  | d1                                   |
| EN50575 CPR Cable EuroClass Acidity Rating   | a1                                   |
| Environmental Space                          | Outdoor                              |
| 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

# 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  |

# 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 |