810010475/DB | D-001-DN-8G-M01BK/AY-0500-UK00



Optical Fiber OSP Drop cable, HDPE jacket, ST buffer, Singlemode, G.657. A2, 1 fiber, meter marked, black jacket color. Box Packaged in 500m lengths.

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America

Portfolio CommScope®

Product Type Fiber drop cable

Product Series D-DN

General Specifications

Cable Type Drop

Construction Type Non-armored

Jacket Color Black
Jacket Marking Meters

Fibers per Subunit, quantity 1

Total Fiber Count 1

Buffer Type Semi-tight

Buffer Strip 500 mm | 19.685 in

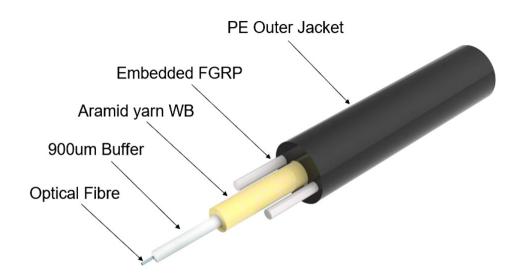
Dimensions

Cable Length500 m | 1,640.42 ftBuffer Tube/Subunit Diameter0.9 mm | 0.035 inDiameter Over Jacket5 mm | 0.197 in

Representative Image



810010475/DB | D-001-DN-8G-M01BK/AY-0500-UK00



Material Specifications

Jacket Material High density polyethylene (HDPE)

Mechanical Specifications

Minimum Bend Radius, loaded60 mm2.362 inMinimum Bend Radius, unloaded30 mm1.181 inTensile Load, long term, maximum400 N89.924 lbf

Fiber Strain, long term, maximum 0.33%

Tensile Load, short term, maximum 800 N | 179.847 lbf

Fiber Strain, short term, maximum 0.66 %

Compression 20 N/mm | 114.203 lb/in

Compression Test Method FOTP-41 | IEC 60794-1 E3

Flex 100 cycles

Flex Test Method FOTP-104 | IEC 60794-1 E6

Impact 10 N-m | 88.507 in lb

 Impact Test Method
 FOTP-25 | IEC 60794-1 E4

 Strain Test Method
 FOTP-33 | IEC 60794-1 E1

Twist 10 cycles

Twist Test Method FOTP-85 | IEC 60794-1 E7

COMMSCOPE®

810010475/DB | D-001-DN-8G-M01BK/AY-0500-UK00

Optical Specifications

Fiber Type G.657.A2

Environmental Specifications

Installation temperature

-10 °C to +60 °C (+14 °F to +140 °F)

Operating Temperature

-20 °C to +70 °C (-4 °F to +158 °F)

Storage Temperature

-20 °C to +70 °C (-4 °F to +158 °F)

Cable Qualification Standards

IEC 60794-1-2 | Telcordia GR-20

Environmental Space Aerial, self-support | Buried | Drop | Façade | Underground (duct)

Jacket UV Resistance UV stabilized

Water Penetration 24 h

Water Penetration Test Method FOTP-82 | IEC 60794-1 F5

Environmental Test Specifications

Cable Freeze Test Method FOTP-98 | IEC 60794-1 F15

Heat Age -20 °C to +85 °C (-4 °F to +185 °F)

Heat Age Test Method IEC 60794-1 F9

Low High Bend $-10 \,^{\circ}\text{C} \text{ to } +60 \,^{\circ}\text{C} \text{ (+14 }^{\circ}\text{F to } +140 \,^{\circ}\text{F)}$

Low High Bend Test Method FOTP-37 | IEC 60794-1 E11

Temperature Cycle -20 °C to +60 °C (-4 °F to +140 °F)

Temperature Cycle Test Method FOTP-3 | IEC 60794-1 F1

Packaging and Weights

Cable weight 15 kg/km | 10.08 lb/kft

Included Products

CS-8G-MP – 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-MP

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** 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 $0.5 \, \mu m$

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 1.00 dB @ 1,625 nm

 Macrobending, 20 mm Ø mandrel, 1 turn
 0.10 dB @ 1,550 nm
 1 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-MP

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 0.40 dB/km @ 1,310 nm | 0.40 dB/km @ 1,385

nm | 0.40 dB/km @ 1,550 nm | 0.50 dB/km @ 1,625

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

