810009685/DB | 0-072-LN-8W-M12NS/20G/HTS



Fiber OSP cable, LightSCOPE® Mini Single Jacket All-Dielectric, High Tensile Strength, Gel-Filled, Outdoor Stranded Loose Tube, 72 fiber, Singlemode G.652.D and G.657.Al, Meters jacket marking, Black jacket color. Provides Rodent Resistance

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA

 Portfolio
 CommScope®

 Product Type
 Fiber OSP cable

Product Series O-LN

General Specifications

Cable TypeStranded loose tube

Construction Type Non-armored

Filler, quantity 0

Jacket Color Black

Jacket Marking Method Inkjet

Jacket Marking Text COMMSCOPE GB OPTICAL CABLE 810009685/DB OS2 SM 72 MDPE [SERIAL NUMBER]

[METRE MARK]

Gel-filled

Subunit, quantity 6

Fibers per Subunit, quantity 12

Total Fiber Count 72

Dimensions

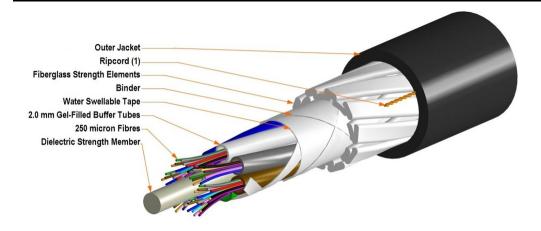
Subunit Type

Buffer Tube/Subunit Diameter2 mm | 0.079 inDiameter Over Jacket11.6 mm | 0.457 in

Representative Image



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Material Specifications

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, loaded174 mm | 6.85 inMinimum Bend Radius, unloaded116 mm | 4.567 inTensile Load, long term, maximum1350 N | 303.492 lbfTensile Load, short term, maximum4500 N | 1,011.641 lbfCompression22 N/mm | 125.623 lb/inCompression Test MethodFOTP-41 | IEC 60794-1 E3

Flex 25 cycles

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

Impact 2.94 N-m | 26.021 in lb

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

Strain See long and short term tensile loads

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

Twist 10 cycles

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

Vertical Rise, maximum 1345 m | 4,412.73 ft

Optical Specifications

Fiber Type G.652.D and G.657.A1 | OS2

Environmental Specifications



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 Installation temperature
 -10 °C to +50 °C (+14 °F to +122 °F)

 Operating Temperature
 -30 °C to +60 °C (-22 °F to +140 °F)

 40 °C to +70 °C (40 °F to +140 °F)

Storage Temperature $-40 \,^{\circ}\text{C to } +70 \,^{\circ}\text{C } (-40 \,^{\circ}\text{F to } +158 \,^{\circ}\text{F})$

Cable Qualification StandardsANSI/ICEA S-87-640 | EN 187105 | IEC 60794-1-2

Jacket UV Resistance UV stabilized

Water Penentration 24 h

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

Environmental Test Specifications

Cable Freeze -2 °C | 28.4 °F

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

Drip 70 °C | 158 °F

Drip Test Method FOTP-81 | IEC 60794-1 E14

Heat Age 0 °C to +85 °C (+32 °F to +185 °F)

Heat Age Test Method IEC 60794-1 F9

Low High Bend $-15 \,^{\circ}\text{C}$ to $+40 \,^{\circ}\text{C}$ ($+5 \,^{\circ}\text{F}$ to $+104 \,^{\circ}\text{F}$)

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

Temperature Cycle $-30 \,^{\circ}\text{C}$ to $+60 \,^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to $+140 \,^{\circ}\text{F}$)

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

Packaging and Weights

Cable weight 111 kg/km | 74.589 lb/kft

Included Products

DB-8W-LT – LightScope ZWP® Singlemode

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

