810010367/DB | 0-144-LN-8F-M12NS/20G/BK



Fiber OSP cable, LightScope ZWP® Mini Single Jacket All-Dielectric, Singlemode G.657.Al, 144 fiber Arid Core construction, Gel-filled, stranded loose tube, Meters jacket marking, Black jacket color

Product Classification

Regional Availability EMEA

 Portfolio
 CommScope®

 Product Type
 Fiber OSP cable

Product Series O-LN

General Specifications

Cable TypeStranded loose tube

Construction Type Non-armored

Subunit Type Gel-filled

Jacket Color Black
Jacket Marking Meters

Jacket Marking Method Inkjet

Jacket Marking Text COMMSCOPE GB OPTICAL CABLE TYPE G657A2 SM 144 FIBER [SERIAL NUMBER] [MM

/YYYY] [METRE MARK]

Subunit, quantity 12
Fibers per Subunit, quantity 12
Total Fiber Count 144

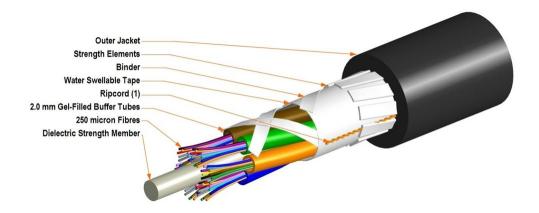
Dimensions

Buffer Tube/Subunit Diameter2 mm | 0.079 inDiameter Over Jacket13.3 mm | 0.524 in

Representative Image



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Material Specifications

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, loaded200 mm | 7.874 inMinimum Bend Radius, unloaded133 mm | 5.236 inTensile Load, long term, maximum800 N | 179.847 lbfTensile Load, short term, maximum2700 N | 606.984 lbfCompression22 N/mm | 125.623 lb/in

Compression Test Method IEC 60794-1 E3

Flex 25 cycles

Flex Test Method IEC 60794-1 E6

Impact 4.41 N-m | 39.032 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 10 cycles

Twist Test Method IEC 60794-1 E7

Vertical Rise, maximum 594 m | 1,948.819 ft

Optical Specifications

Fiber Type G.657.A1

Environmental Specifications



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ANSI/ICEA S-87-640 | EN 187105 | IEC 60794-1-2

Installation temperature -30 °C to +70 °C (-22 °F to +158 °F) -40 °C to +70 °C (-40 °F to +158 °F) **Operating Temperature Storage Temperature**

-40 °C to +75 °C (-40 °F to +167 °F)

Environmental Space Aerial, lashed | Buried

Jacket UV Resistance UV stabilized

Water Penetration 24 h

Cable Qualification Standards

Water Penetration Test Method IFC 60794-1 F5

Environmental Test Specifications

Cable Freeze -2 °C | 28.4 °F Cable Freeze Test Method IEC 60794-1 F15 Drip 70 °C | 158 °F **Drip Test Method** IEC 60794-1 E14

Heat Age -40 °C to +85 °C (-40 °F to +185 °F)

Heat Age Test Method IEC 60794-1 F9

Low High Bend -30 °C to +60 °C (-22 °F to +140 °F)

Low High Bend Test Method IEC 60794-1 E11

Temperature Cycle -40 °C to +70 °C (-40 °F to +158 °F)

Temperature Cycle Test Method IEC 60794-1 F1

Packaging and Weights

Cable weight 138 kg/km | 92.732 lb/kft

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant **UK-ROHS** Compliant



Included Products

CS-8F-TB Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode

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Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable