810010137/DB | B-036-LN-8F-M12NS/15G



Fiber OSP cable, LightScope ZWP® Blown Micro Single Jacket All-Dielectric Outdoor Stranded Loose Tube Arid-Core® Construction Cable, 36 fiber, Singlemode G.652.D, Gel-filled, Meters jacket marking, Black jacket color

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North

America

 Portfolio
 CommScope®

 Product Type
 Fiber OSP cable

Product Series B-LN

General Specifications

Cable Type Stranded loose tube

Construction Type Non-armored

Subunit Type Gel-filled

Filler, quantity 2

Jacket Color Black
Jacket Marking Meters

Jacket Marking Method Laser

Jacket Marking Text COMMSCOPE OPTICAL CABLE G657A1 SM 36F (SERIAL NUMBER) [MM

/YYYY] [M]

Subunit, quantity 3

Fibers per Subunit, quantity 12

Total Fiber Count 36

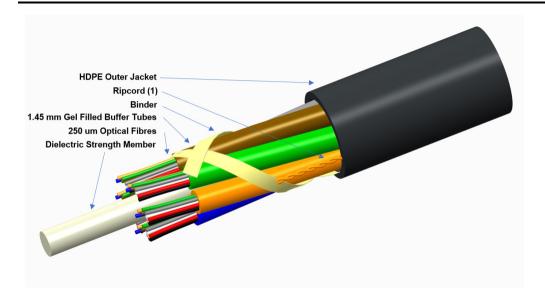
Dimensions

Buffer Tube/Subunit Diameter1.45 mm | 0.057 inDiameter Over Jacket5.1 mm | 0.201 in

Representative Image

COMMSCOPE°

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Material Specifications

Jacket Material High density polyethylene (HDPE)

Mechanical Specifications

Minimum Bend Radius, loaded 77 mm | 3.031 in Minimum Bend Radius, unloaded 51 mm | 2.008 in Tensile Load, long term, maximum 97 N | 21.806 lbf

Tensile Load, short term, maximum 324 N | 72.838 lbf

10 N/mm | 57.101 lb/in Compression

IEC 60794-1-21 E3 **Compression Test Method**

Flex 25 cycles

Flex Test Method IEC 60794-1 E6

Impact 0.3 N-m | 2.655 in lb

Impact Test Method IEC 60794-1-21 E4

See long and short term tensile loads

IEC 60794-1-21 E1

10 cycles

Twist Test Method IEC 60794-1-21 E7

Vertical Rise, maximum 492 m | 1,614.173 ft

Optical Specifications

Strain

Twist

Strain Test Method

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Fiber Type G.652.D | G.652.D

Environmental Specifications

Installation temperature $-30 \,^{\circ}\text{C to} + 70 \,^{\circ}\text{C (-22 \,^{\circ}\text{F to}} + 158 \,^{\circ}\text{F)}$ Operating Temperature $-30 \,^{\circ}\text{C to} + 70 \,^{\circ}\text{C (-22 \,^{\circ}\text{F to}} + 158 \,^{\circ}\text{F)}$ Storage Temperature $-30 \,^{\circ}\text{C to} + 75 \,^{\circ}\text{C (-22 \,^{\circ}\text{F to}} + 167 \,^{\circ}\text{F)}$

Cable Qualification StandardsIEC 60794-5-10Environmental SpaceAir-blown, microduct

Jacket UV Resistance UV stabilized

Water Penetration 24 h

Water Penetration Test Method IEC 60794-1 F4

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 60794-1-21 E14

-30 °C to +85 °C (-22 °F to +185 °F)

Heat Age Test Method IEC 60794-1-22 F9

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

Low High Bend Test Method IEC 60794-1-21 E11

Temperature Cycle $-30 \,^{\circ}\text{C to} + 70 \,^{\circ}\text{C} \left(-22 \,^{\circ}\text{F to} + 158 \,^{\circ}\text{F}\right)$

Temperature Cycle Test Method IEC 60794-1-22 F1

Packaging and Weights

Cable weight 22 kg/km | 14.783 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



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Included Products

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

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable



CS-8F-TB

Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber

Product Classification

 Portfolio
 CommScope®

 Product Type
 Optical fiber

General Specifications

Cladding Diameter 125 µm **Cladding Diameter Tolerance** $\pm 0.7 \, \mu m$ 0.7 % **Cladding Non-Circularity, maximum Coating Diameter (Colored)** 249 um **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

Tight Buffer Diameter 900 μm Tight Buffer Diameter Tolerance $\pm 40 \ \mu m$

Dimensions

Fiber Curl, minimum 4 m | 13.123 ft

Mechanical Specifications

 Macrobending, 20 mm Ø mandrel, 1 turn
 0.75 dB @ 1,550 nm | 1.50 dB @ 1,625 nm

 Macrobending, 30 mm Ø mandrel, 10 turns
 0.25 dB @ 1,550 nm | 1.00 dB @ 1,625 nm

 Macrobending, 50 mm Ø mandrel, 100 turns
 0.03 dB @ 1,550 nm | 0.05 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, maximum 1260 nm

COMMSCOPE®

CS-8F-TB

Point Defects, maximum 0.1 dB

Zero Dispersion Slope, maximum 0.09 ps/[km-nm-nm]

Zero Dispersion Wavelength, maximum1324 nmZero Dispersion Wavelength, minimum1300 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 @ 1,490 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, maximum0.06 ps/sqrt(km)Standards ComplianceITU-T G.657.A1

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

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

