

Fiber OSP cable, LightScope® ZWP Blown Micro Single Jacket All-Dielectric, 12 fiber, Stranded Loose Tube Arid-Core™ Construction, Singlemode G.652.D, Gel-filled, Meters jacket marking, Black jacket color

Product Classification

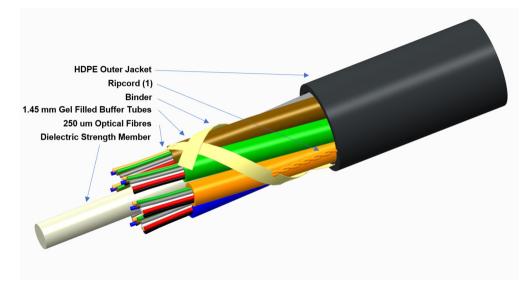
| Regional Availability | Asia Australia/New Zealand EMEA Latin America |
|------------------------------|---|
| Portfolio | CommScope® |
| Product Type | Fiber OSP cable |
| Product Series | B-LN |
| General Specifications | |
| Cable Type | Stranded loose tube |
| Construction Type | Non-armored |
| Subunit Type | Gel-filled |
| Filler, quantity | 4 |
| Jacket Color | Black |
| Jacket Marking | Meters |
| Jacket Marking Method | Laser |
| Jacket Marking Text | COMMSCOPE OPTICAL CABLE G657A1 SM 12F (SERIAL NUMBER) [MM /YYYY] [M] |
| Subunit, quantity | 1 |
| Fibers per Subunit, quantity | 12 |
| Total Fiber Count | 12 |
| Dimensions | |
| Buffer Tube/Subunit Diameter | 1.45 mm 0.057 in |
| Diameter Over Jacket | 5.1 mm 0.201 in |
| | |

Representative Image

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High density polyethylene (HDPE)



Material Specifications

Jacket Material

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 Compression 10 N/mm | 57.101 lb/in **Compression Test Method** IEC 60794-1-21 E3 Flex 25 cycles Flex Test Method IEC 60794-1 E6 Impact 0.3 N-m | 2.655 in lb IEC 60794-1-21 E4 Impact Test Method Strain See long and short term tensile loads **Strain Test Method** IEC 60794-1-21 E1 Twist 10 cycles Twist Test Method IEC 60794-1-21 E7 Vertical Rise, maximum 492 m | 1,614.173 ft

Optical Specifications

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Fiber Type

G.652.D | G.652.D

Environmental Specifications

| Installation temperature | -30 °C to +70 °C (-22 °F to +158 °F) |
|-------------------------------|--------------------------------------|
| Operating Temperature | -30 °C to +70 °C (-22 °F to +158 °F) |
| Storage Temperature | -30 °C to +75 °C (-22 °F to +167 °F) |
| Cable Qualification Standards | IEC 60794-5-10 |
| Environmental Space | Air-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 |
| Heat Age | -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 °C to +70 °C (-22 °F to +158 °F) |
| 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-250-EMEA – LightScope® ZWP Singlemode Fiber 8F-250um

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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