

860646624/DB | O-144-LN-8W-M12BK/20G



Fiber OSP cable, LightScope ZWP® Mini Single Jacket, All-Dielectric, 144 fiber, Gel-Filled, Stranded Loose Tube, Singlemode G.652.D and G.657.A1, 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 Type | Stranded 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 OS2 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 Diameter | 2 mm 0.079 in |
| Diameter Over Jacket | 13.5 mm 0.531 in |

Representative Image



Material Specifications

Jacket Material PE

Mechanical Specifications

| | |
|--|---------------------------------------|
| Minimum Bend Radius, loaded | 200 mm 7.874 in |
| Minimum Bend Radius, unloaded | 133 mm 5.236 in |
| Tensile Load, long term, maximum | 800 N 179.847 lbf |
| Tensile Load, short term, maximum | 2700 N 606.984 lbf |
| Compression | 22 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.652.D and G.657.A1 | G.652.D and G.657.A1

Environmental Specifications

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| | |
|--------------------------------------|--|
| Installation temperature | -10 °C to +50 °C (+14 °F to +122 °F) |
| Operating Temperature | -40 °C to +70 °C (-40 °F to +158 °F) |
| Storage Temperature | -40 °C to +75 °C (-40 °F to +167 °F) |
| Cable Qualification Standards | ANSI/ICEA S-87-640 EN 187105 IEC 60794-1-2 |
| Environmental Space | Aerial, lashed Buried |
| Jacket UV Resistance | UV stabilized |
| Water Penetration | 24 h |
| Water Penetration Test Method | IEC 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 |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |



Included Products

860646624/DB | O-144-LN-8W-M12BK/20G

DB-8W-LT – LightScope ZWP® Singlemode
Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable