# 760120261 | R-012-LZ-8W-F12BK/25D



Fiber Indoor/Outdoor cable, Riser Rated, Singlemode G.652.D and G.657. A1, Gel-Free, 12 fiber, Stranded Loose Tube with Aluminum Interlocking Armor containing a Riser Rated Outer Jacket, Black jacket color, Feet cable marking

### Product Classification

| Regional Availability        | Asia   Australia/New Zealand   Latin America   Middle East<br>/Africa   North America |
|------------------------------|---|
| Portfolio                    | CommScope®  |
| Product Type                 | Fiber indoor/outdoor cable  |
| Product Series               | R-LZ  |
| General Specifications       |   |
| Armor Type                   | Interlocking aluminum   |
| Cable Type                   | Stranded loose tube   |
| Construction Type            | Armored   |
| Subunit Type                 | Gel-free  |
| Filler, quantity             | 4   |
| Jacket Color                 | Black   |
| Jacket Marking               | Feet  |
| Subunit, quantity            | 1   |
| Fibers per Subunit, quantity | 12  |
| Total Fiber Count            | 12  |
| Dimensions                   |   |
| Buffer Tube/Subunit Diameter | 2.5 mm   0.098 in   |
| Diameter Over Armor          | 18.4 mm   0.724 in  |
| Diameter Over Jacket         | 20.5 mm   0.807 in  |
|                              |   |

### Representative Image

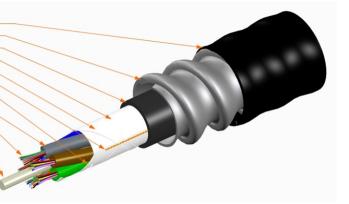
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## Mechanical Specifications

| Minimum Bend Radius, loaded       | 409 mm   16.102 in                           |
|-----------------------------------|--|
| Minimum Bend Radius, unloaded     | 286 mm   11.26 in                            |
| Tensile Load, long term, maximum  | 400 N   89.924 lbf                           |
| Tensile Load, short term, maximum | 1335 N   300.12 lbf                          |
| Compression                       | 85 N/mm   485.363 lb/in                      |
| Compression Test Method           | FOTP-41   IEC 60794-1 E3                     |
| Flex                              | 25 cycles                                    |
| Flex Test Method                  | FOTP-104   IEC 60794-1 E6                    |
| Impact                            | 35 N-m   309.776 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            | 125 m   410.105 ft                           |
| Optical Specifications            |  |
| Fiber Type                        | G.652.D and G.657.A1, TeraSPEED®   OS2   OS2 |
|                                   |  |
|                                   |  |

#### **Environmental Specifications**

| Installation temperature | -10 °C to +60 °C (+14 °F to +140 °F) |
|--------------------------|--------------------------------------|
| Operating Temperature    | -40 °C to +70 °C (-40 °F to +158 °F) |

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| Storage Temperature           | -40 °C to +75 °C (-40 °F to +167 °F)               |
|-------------------------------|--|
| Cable Qualification Standards | ANSI/ICEA S-104-696   EN 187105   Telcordia GR-409 |
| Environmental Space           | Riser  |
| Flame Test Listing            | NEC OFCR (ETL) and c(ETL)                          |
| Flame Test Method             | UL 1666  |
| Jacket UV Resistance          | UV stabilized                                      |
| Water Penetration             | 24 h   |
| Water Penetration 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            |
| 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     | FOTP-37   IEC 60794-1 E11            |
| Temperature Cycle             | -40 °C to +70 °C (-40 °F to +158 °F) |
| Temperature Cycle Test Method | FOTP-3   IEC 60794-1 F1              |

## Packaging and Weights

**Cable weight** 

320 kg/km | 215.03 lb/kft

## Regulatory Compliance/Certifications

Classification

#### Agency

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

### Included Products

CS-8W-IOLT - TeraSPEED® OS2 Singlemode Fiber

### \* Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable

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