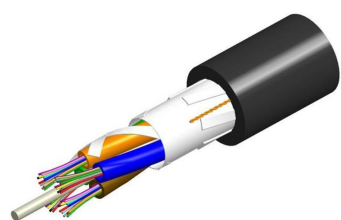


# 760112433 | R-024-LN-8W-F12BK/25D/LTS



Fiber indoor/outdoor cable, TeraSPEED® Light Duty, Single Jacket, Riser Rated, 24 fiber, Singlemode G.652.D and G.657.A1, Gel-Free, All-Dielectric Outdoor Stranded Loose Tube, Black jacket color, Feet cable marking

## Product Classification

|                       |  |
|-----------------------|--|
| Regional Availability | Asia   Australia/New Zealand   Latin America   Middle East /Africa   North America |
| Portfolio             | CommScope®   |
| Product Type          | Fiber indoor/outdoor cable   |
| Product Series        | R-LN   |

## General Specifications

|                              |                     |
|------------------------------|---------------------|
| Cable Type                   | Stranded loose tube |
| Construction Type            | Non-armored         |
| Subunit Type                 | Gel-free            |
| Filler, quantity             | 2                   |
| Jacket Color                 | Black               |
| Jacket Marking               | Feet                |
| Subunit, quantity            | 2                   |
| Fibers per Subunit, quantity | 12                  |
| Total Fiber Count            | 24                  |

## Dimensions

|                              |                    |
|------------------------------|--------------------|
| Buffer Tube/Subunit Diameter | 2.5 mm   0.098 in  |
| Diameter Over Jacket         | 10.4 mm   0.409 in |

## Representative Image



Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 157 mm   6.181 in                     |
| Minimum Bend Radius, unloaded     | 104 mm   4.094 in                     |
| Tensile Load, long term, maximum  | 400 N   89.924 lbf                    |
| Tensile Load, short term, maximum | 1335 N   300.12 lbf                   |
| Compression                       | 22 N/mm   125.623 lb/in               |
| Compression Test Method           | FOTP-41   IEC 60794-1 E3              |
| Flex                              | 25 cycles                             |
| Flex Test Method                  | FOTP-104   IEC 60794-1 E6             |
| Impact                            | 2.94 N-m   26.021 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            | 436 m   1,430.446 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) |

|                               |                                      |
|-------------------------------|--------------------------------------|
| Storage Temperature           | -40 °C to +75 °C (-40 °F to +167 °F) |
| Cable Qualification Standards | ANSI/ICEA S-104-696   EN 187105      |
| Environmental Space           | Riser                                |
| Flame Test Listing            | NEC OFNR (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 | 94 kg/km   63.165 lb/kft |
|--------------|--------------------------|

### Regulatory Compliance/Certifications

| Agency        | Classification   |
|---------------|--|
| 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