# 760249439   |   Z-144-CZ-RB-F12BK/8W/99F

Fiber Indoor/outdoor Cable, Interlocking Armored, Low Smoke Zero Halogen (LSZH), Riser-Rated, 144 fiber, Gel-Free, Central Tube Ribbon, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color

## Product Classification

| | |
|---|---|
| **Regional Availability** | Asia   |   Australia/New Zealand   |   EMEA   |   Latin America   |   North America |
| **Portfolio** | CommScope® |
| **Product Type** | Fiber indoor/outdoor cable |
| **Product Series** | Z-CZ |

## General Specifications

| | |
|---|---|
| **Armor Type** | Interlocking aluminum |
| **Cable Type** | Ribbon central tube |
| **Construction Type** | Armored |
| **Subunit Type** | Gel-free |
| **Fibers per Ribbon, quantity** | 12 |
| **Jacket Color** | Black |
| **Jacket Marking** | Feet |
| **Total Fiber Count** | 144 |

## Dimensions

| | |
|---|---|
| **Buffer Tube/Subunit Diameter** | 7.9 mm   |   0.311 in |
| **Diameter Over Jacket** | 24.3 mm   |   0.957 in |

## Representative Image

COMMSCOPE®

Flame Retardant Outer Jacket
Interlocking Aluminum Armor
Flame Retardant Outer Jacket
Water-Blocking Tape
Ripcord
Strength Rods
All-Dry Central Tube
Water-Blocking Tape
Ribbon Stack
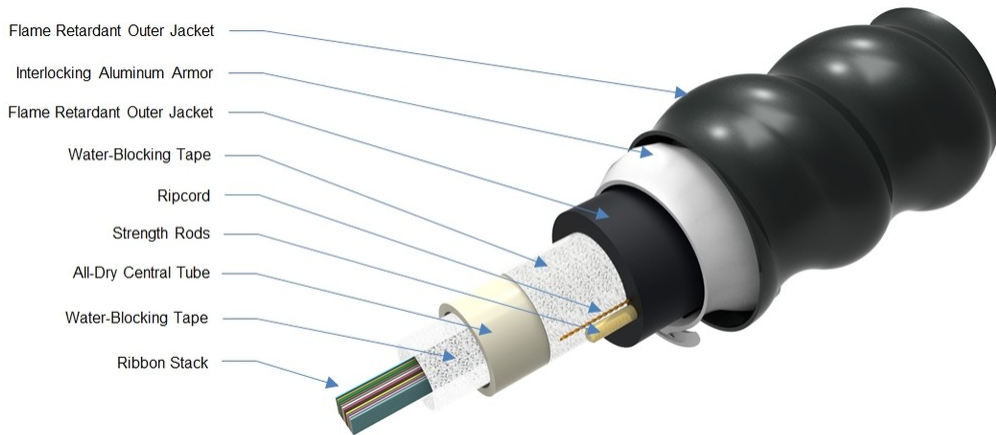
## Mechanical Specifications

| | |
|---|---|
| **Minimum Bend Radius, loaded** | 365 mm  \|  14.37 in |
| **Minimum Bend Radius, unloaded** | 243 mm  \|  9.567 in |
| **Tensile Load, long term, maximum** | 800 N  \|  179.847 lbf |
| **Tensile Load, short term, maximum** | 2700 N  \|  606.984 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 |

## Optical Specifications

| | |
|---|---|
| **Fiber Type** | G.652.D and G.657.A1, TeraSPEED® |

## Environmental Specifications

| | |
|---|---|
| **Installation temperature** | -30 °C to +60 °C (-22 °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-20-CORE Issue 4 | Telcordia GR-409 |
| **Environmental Space** | Aerial, lashed | Buried | Low Smoke Zero Halogen (LSZH) | Riser |
| **Flame Test Listing** | NEC OFCR-ST1 (ETL) and c(ETL) |
| **Flame Test Method** | CSA FT4 | IEEE 1202 | UL 1666 | UL 1685 |
| **Jacket UV Resistance** | UV stabilized |
| **Water Penentration** | 24 h |
| **Water Penentration 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** | -20 °C to +60 °C (-4 °F to +140 °F) |
| **Low High Bend Test Method** | FOTP-37 | IEC 60794-1 E11 |
| **Temperature Cycle** | -20 °C to +70 °C (-4 °F to +158 °F) |
| **Temperature Cycle Test Method** | FOTP-3 | IEC 60794-1 F1 |

## Packaging and Weights

| | |
|---|---|
| **Cable weight** | 459 kg/km | 308.434 lb/kft |

## Included Products

CS-8W-RB-I/O  –  TeraSPEED® Singlemode Fiber Flat Ribbon

## * Footnotes

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

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