# 760101535　|　Z-024-DS-CM-FSUBK/8W012/5L012 /D

Fiber Indoor/Outdoor cable, TeraSPEED® Low Smoke Zero Halogen Riser Distribution, 24 fiber single-unit, Gel-free, Singlemode + Multimode OM3, Feet jacket marking, Black jacket color, Dca flame rating

## Product Classification

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

## General Specifications

| | |
|---|---|
| **Cable Type** | Distribution |
| **Construction Type** | Non-armored |
| **Jacket Color** | Black |
| **Jacket Marking** | Feet |
| **Composite Fiber Count** | 12 + 12 |
| **Total Fiber Count** | 24 |

## Dimensions

| | |
|---|---|
| **Diameter Over Jacket** | 8.7 mm　|　0.343 in |

## Representative Image

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Outer Jacket
Ripcord
Water Blocking System
Aramid Yarn
900 µm Tight Buffer
250 µm Optical Fiber
Central Strength Member
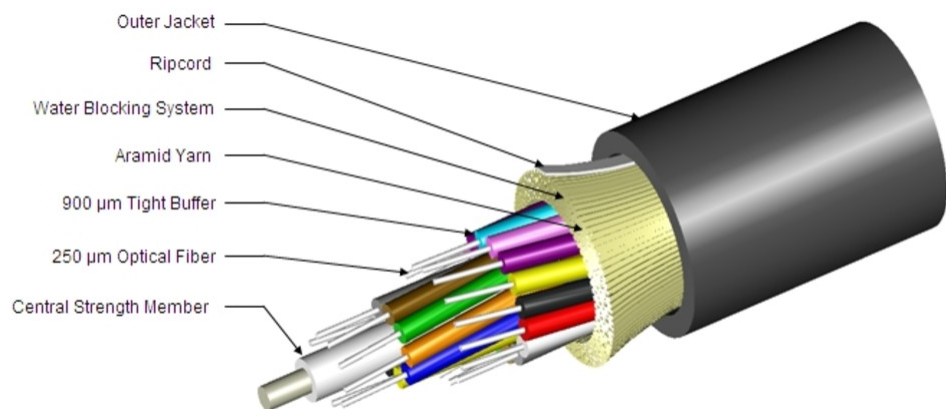
## Mechanical Specifications

| | |
|---|---|
| **Minimum Bend Radius, loaded** | 130 mm  \|  5.118 in |
| **Minimum Bend Radius, unloaded** | 87 mm  \|  3.425 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** | 100 cycles |
| **Flex Test Method** | FOTP-104  \|  IEC 60794-1 E6 |
| **Impact** | 5.88 N-m  \|  52.042 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** | 500 m  \|  1,640.42 ft |

## Optical Specifications

| | |
|---|---|
| **Fiber Type** | Composite MM/SM  \|  G.652.D and G.657.A1, TeraSPEED®  \|  OM3, LazrSPEED® 300 |

## Environmental Specifications

| | |
|---|---|
| **Installation temperature** | -30 °C to +60 °C (-22 °F to +140 °F) |

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| | |
|---|---|
| **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 | Telcordia GR-20 (water penetration) | Telcordia GR-409 |
| **EN50575 CPR Cable EuroClass Fire Performance** | Dca |
| **EN50575 CPR Cable EuroClass Smoke Rating** | s1a |
| **EN50575 CPR Cable EuroClass Droplets Rating** | d1 |
| **EN50575 CPR Cable EuroClass Acidity Rating** | a2 |
| **Environmental Space** | Low Smoke Zero Halogen (LSZH) | Riser |
| **Flame Test Listing** | NEC OFNR-ST1 (ETL) and c(ETL) |
| **Flame Test Method** | IEC 60332-3 | IEC 60754-2 | IEC 61034-2 | UL 1666 | UL 1685 |
| **Jacket UV Resistance** | UV stabilized |
| **Water Penetration** | 24 h |
| **Water Penetration Test Method** | FOTP-82 | IEC 60794-1 F5 |

## Environmental Test Specifications

| | |
|---|---|
| **Cable Freeze Test Method** | 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** | -40 °C to +70 °C (-40 °F to +158 °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** | 67 kg/km | 45.022 lb/kft |

## Regulatory Compliance/Certifications

| Agency | Classification |
|---|---|
| CENELEC | EN 50575 compliant, Declaration of Performance (DoP) available |
| 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 |

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## Included Products

| | | |
|---|---|---|
| CS-5L-TB | – | LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber |
| CS-8W-TB | – | TeraSPEED® Singlemode Fiber |

## * Footnotes

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

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