



Fiber indoor/outdoor cable, TeraSPEED®, Gel-Free, 96 fiber, Singlemode G.652.D and G.657.A1, Inner Low Smoke Zero Halogen (LSZH) Stranded Loose Tube with Aluminum Interlocking Armor and a LSZH Outer Jacket, Black jacket color, Feet cable marking

## Product Classification

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

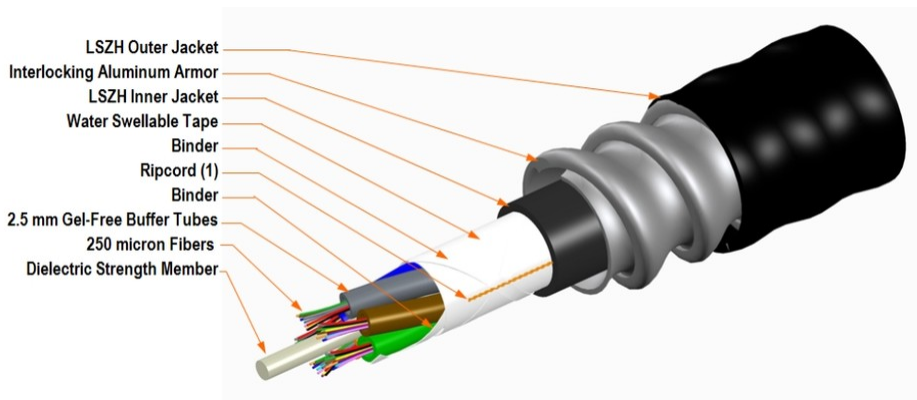
## General Specifications

|                                     |                       |
|-------------------------------------|-----------------------|
| <b>Armor Type</b>                   | Interlocking aluminum |
| <b>Cable Type</b>                   | Stranded loose tube   |
| <b>Construction Type</b>            | Armored               |
| <b>Subunit Type</b>                 | Gel-free              |
| <b>Filler, quantity</b>             | 0                     |
| <b>Jacket Color</b>                 | Black                 |
| <b>Jacket Marking</b>               | Feet                  |
| <b>Subunit, quantity</b>            | 8                     |
| <b>Fibers per Subunit, quantity</b> | 12                    |
| <b>Total Fiber Count</b>            | 96                    |

## Dimensions

|                                     |                    |
|-------------------------------------|--------------------|
| <b>Buffer Tube/Subunit Diameter</b> | 2.5 mm   0.098 in  |
| <b>Diameter Over Armor</b>          | 19.7 mm   0.776 in |
| <b>Diameter Over Jacket</b>         | 21.7 mm   0.854 in |

## Representative Image



## Mechanical Specifications

|  |                                       |
|--|---------------------------------------|
| <b>Minimum Bend Radius, loaded</b>       | 435 mm   17.126 in                    |
| <b>Minimum Bend Radius, unloaded</b>     | 304 mm   11.969 in                    |
| <b>Tensile Load, long term, maximum</b>  | 400 N   89.924 lbf                    |
| <b>Tensile Load, short term, maximum</b> | 1335 N   300.12 lbf                   |
| <b>Compression</b>                       | 85 N/mm   485.363 lb/in               |
| <b>Compression Test Method</b>           | FOTP-41   IEC 60794-1 E3              |
| <b>Flex</b>                              | 25 cycles                             |
| <b>Flex Test Method</b>                  | FOTP-104   IEC 60794-1 E6             |
| <b>Impact</b>                            | 35 N-m   309.776 in lb                |
| <b>Impact Test Method</b>                | FOTP-25   IEC 60794-1 E4              |
| <b>Strain</b>                            | See long and short term tensile loads |
| <b>Strain Test Method</b>                | FOTP-33   IEC 60794-1 E1              |
| <b>Twist</b>                             | 10 cycles                             |
| <b>Twist Test Method</b>                 | FOTP-85   IEC 60794-1 E7              |
| <b>Vertical Rise, maximum</b>            | 117 m   383.858 ft                    |

## Optical Specifications

|                   |  |
|-------------------|--|
| <b>Fiber Type</b> | G.652.D and G.657.A1, TeraSPEED®   OS2   OS2 |
|-------------------|--|

## Environmental Specifications

|                                 |                                      |
|---------------------------------|--------------------------------------|
| <b>Installation temperature</b> | -30 °C to +60 °C (-22 °F to +140 °F) |
| <b>Operating Temperature</b>    | -40 °C to +70 °C (-40 °F to +158 °F) |

# 760239113 | Z-096-LZ-8W-F12BK/25D

|                                      |   |
|--------------------------------------|---|
| <b>Storage Temperature</b>           | -40 °C to +75 °C (-40 °F to +167 °F)                          |
| <b>Cable Qualification Standards</b> | ANSI/ICEA S-104-696   EN 187105   Telcordia GR-409            |
| <b>Environmental Space</b>           | Buried   Low Smoke Zero Halogen (LSZH)                        |
| <b>Flame Test Listing</b>            | NEC OFC-ST1 (ETL) and c(ETL)                                  |
| <b>Flame Test Method</b>             | IEC 60332-3   IEC 60754-2   IEC 61034-2   IEEE 1202   UL 1685 |
| <b>Jacket UV Resistance</b>          | UV stabilized   |
| <b>Water Penetration</b>             | 24 h  |
| <b>Water Penetration Test Method</b> | FOTP-82   IEC 60794-1 F5                                      |

## Environmental Test Specifications

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Cable Freeze</b>                  | -2 °C   28.4 °F                      |
| <b>Cable Freeze Test Method</b>      | FOTP-98   IEC 60794-1 F15            |
| <b>Heat Age</b>                      | -40 °C to +85 °C (-40 °F to +185 °F) |
| <b>Heat Age Test Method</b>          | IEC 60794-1 F9                       |
| <b>Low High Bend</b>                 | -30 °C to +60 °C (-22 °F to +140 °F) |
| <b>Low High Bend Test Method</b>     | FOTP-37   IEC 60794-1 E11            |
| <b>Temperature Cycle</b>             | -40 °C to +70 °C (-40 °F to +158 °F) |
| <b>Temperature Cycle Test Method</b> | FOTP-3   IEC 60794-1 F1              |

## Packaging and Weights

|                     |                            |
|---------------------|----------------------------|
| <b>Cable weight</b> | 351 kg/km   235.861 lb/kft |
|---------------------|----------------------------|

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| 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