

# P-002-ZC-5M-F25

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Fiber indoor cable, LazrSPEED® 2.5mm Plenum Zipcord, Multimode OM2+, Feet jacket marking

## Product Classification

|                              |   |
|------------------------------|---|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   Latin America   Middle East/Africa   North America |
| <b>Portfolio</b>             | CommScope®  |
| <b>Product Type</b>          | Fiber indoor cable  |
| <b>Product Series</b>        | P-ZC  |

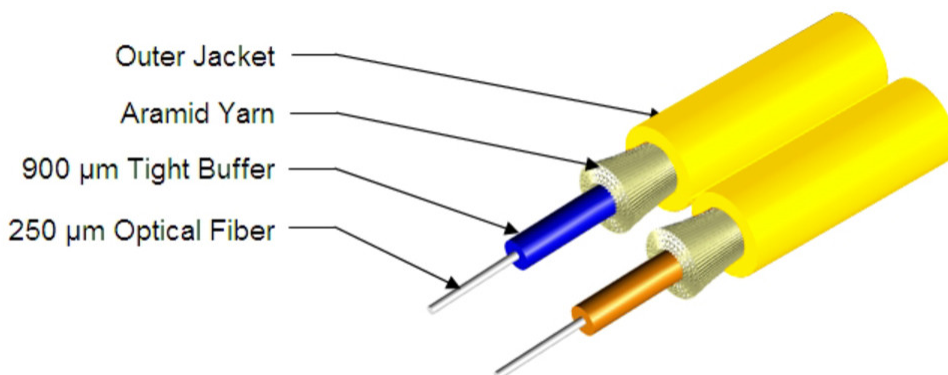
## General Specifications

|                             |             |
|-----------------------------|-------------|
| <b>Cable Type</b>           | Cordage     |
| <b>Construction Type</b>    | Non-armored |
| <b>Fiber Type, quantity</b> | 2           |
| <b>Jacket Marking</b>       | Feet        |
| <b>Subunit Type</b>         | Gel-free    |
| <b>Total Fiber Count</b>    | 2           |

## Dimensions

|                           |                   |
|---------------------------|-------------------|
| <b>Height Over Jacket</b> | 2.5 mm   0.098 in |
| <b>Width Over Jacket</b>  | 5.1 mm   0.201 in |

## Representative Image



## Mechanical Specifications

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|  |                                       |
|--|---------------------------------------|
| <b>Minimum Bend Radius, loaded</b>       | 38 mm   1.496 in                      |
| <b>Minimum Bend Radius, unloaded</b>     | 20 mm   0.787 in                      |
| <b>Tensile Load, long term, maximum</b>  | 120 N   26.977 lbf                    |
| <b>Tensile Load, short term, maximum</b> | 400 N   89.924 lbf                    |
| <b>Compression</b>                       | 10 N/mm   57.101 lb/in                |
| <b>Compression Test Method</b>           | FOTP-41   IEC 60794-1 E3              |
| <b>Flex</b>                              | 300 cycles                            |
| <b>Flex Test Method</b>                  | FOTP-104   IEC 60794-1 E6             |
| <b>Impact</b>                            | 0.74 N-m   6.55 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>            | 500 m   1,640.42 ft                   |

## Optical Specifications

|                   |   |
|-------------------|---|
| <b>Fiber Type</b> | OM2+, LazrSPEED® 150   OM2+, LazrSPEED® 150 |
|-------------------|---|

## Environmental Specifications

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| <b>Installation temperature</b>      | 0 °C to +70 °C (+32 °F to +158 °F)    |
| <b>Operating Temperature</b>         | -20 °C to +70 °C (-4 °F to +158 °F)   |
| <b>Storage Temperature</b>           | -40 °C to +70 °C (-40 °F to +158 °F)  |
| <b>Cable Qualification Standards</b> | ANSI/ICEA S-83-596   Telcordia GR-409 |
| <b>Environmental Space</b>           | Plenum                                |
| <b>Flame Test Listing</b>            | NEC OFNP (ETL) and c(ETL)             |
| <b>Flame Test Method</b>             | NFPA 262                              |

## Environmental Test Specifications

|                                  |                                     |
|----------------------------------|-------------------------------------|
| <b>Heat Age</b>                  | -20 °C to +85 °C (-4 °F to +185 °F) |
| <b>Heat Age Test Method</b>      | IEC 60794-1 F9                      |
| <b>Low High Bend</b>             | -20 °C to +70 °C (-4 °F to +158 °F) |
| <b>Low High Bend Test Method</b> | FOTP-37   IEC 60794-1 E11           |

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**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** 15 kg/km | 10.08 lb/kft

## Regulatory Compliance/Certifications

### Agency

ISO 9001:2015

### Classification

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



## Included Products

CS-5M-TB – LazrSPEED® 150 OM2+ Bend-Insensitive Multimode Fiber

## \* Footnotes

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

# CS-5M-TB

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## LazrSPEED® 150 OM2+ Bend-Insensitive Multimode Fiber

### LazrSPEED® 150

#### Product Classification

|                     |               |
|---------------------|---------------|
| <b>Portfolio</b>    | CommScope®    |
| <b>Product Type</b> | Optical fiber |

#### General Specifications

|  |  |
|--|--|
| <b>Cladding Diameter</b>                             | 125 µm                                 |
| <b>Cladding Diameter Tolerance</b>                   | ±0.8 µm                                |
| <b>Cladding Non-Circularity, maximum</b>             | 1 %                                    |
| <b>Coating Diameter (Colored)</b>                    | 254 µm                                 |
| <b>Coating Diameter (Uncolored)</b>                  | 245 µm                                 |
| <b>Coating Diameter Tolerance (Colored)</b>          | ±7 µm                                  |
| <b>Coating Diameter Tolerance (Uncolored)</b>        | ±10 µm                                 |
| <b>Coating/Cladding Concentricity Error, maximum</b> | 12 µm                                  |
| <b>Core Diameter</b>                                 | 50 µm                                  |
| <b>Core Diameter Tolerance</b>                       | ±2.5 µm                                |
| <b>Core/Clad Offset, maximum</b>                     | 1.5 µm                                 |
| <b>Proof Test</b>                                    | 689.476 N/mm <sup>2</sup>   100000 psi |
| <b>Tight Buffer Diameter</b>                         | 900 µm                                 |
| <b>Tight Buffer Diameter Tolerance</b>               | ±40 µm                                 |

#### Mechanical Specifications

|   |                                       |
|---|---------------------------------------|
| <b>Macrobending, 15 mm mandrel, 2 turns</b> | 0.20 dB @ 850 nm   0.50 dB @ 1,300 nm |
| <b>Macrobending, 30 mm mandrel, 2 turns</b> | 0.10 dB @ 850 nm   0.30 dB @ 1,300 nm |
| <b>Coating Strip Force, maximum</b>         | 8.9 N   2.001 lbf                     |
| <b>Coating Strip Force, minimum</b>         | 1.3 N   0.292 lbf                     |

# CS-5M-TB

**Dynamic Fatigue Parameter, minimum** 18

## Optical Specifications

**Numerical Aperture** 0.2  
**Numerical Aperture Tolerance**  $\pm 0.015$   
**Point Defects, maximum** 0.15 dB  
**Zero Dispersion Slope, maximum** 0.105 ps/[km-nm-nm]  
**Zero Dispersion Wavelength, maximum** 1316 nm  
**Zero Dispersion Wavelength, minimum** 1297 nm

## Optical Specifications, Wavelength Specific

**1 Gbps Ethernet Distance** 600 m @ 1,300 nm | 800 m @ 850 nm  
**10 Gbps Ethernet Distance** 150 m @ 850 nm  
**Attenuation, maximum** 1.00 dB/km @ 1,300 nm | 3.00 dB/km @ 850 nm  
**Backscatter Coefficient** -68.0 dB @ 850 nm | -75.7 dB @ 1,300 nm  
**Bandwidth, Laser, minimum** 500 MHz-km @ 1,300 nm | 950 MHz-km @ 850 nm  
**Bandwidth, OFL, minimum** 500 MHz-km @ 1,300 nm | 700 MHz-km @ 850 nm  
**Differential Mode Delay** 0.70 ps/m @ 850 nm | 0.88 ps/m @ 1,300 nm  
**Index of Refraction** 1.479 @ 1,300 nm | 1.483 @ 850 nm  
**Standards Compliance** TIA-492AAAB (OM2+)

## Environmental Specifications

**Heat Aging, maximum** 0.20 dB/km @ 85 °C  
**Temperature Dependence, maximum** 0.1 dB/km  
**Temperature Humidity Cycling, maximum** 0.2 dB/km  
**Water Immersion, maximum** 0.20 dB/km @ 23 °C

## Regulatory Compliance/Certifications

**Agency** ISO 9001:2015  
**Classification** Designed, manufactured and/or distributed under this quality management system



## \* Footnotes

# CS-5M-TB

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**Temperature Dependence, maximum**

Temperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)

**Temperature Humidity Cycling, maximum**

Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F) up to 95% relative humidity