

Fiber indoor cable, LazrSPEED® Plenum Distribution Cable, 2 fiber single-unit, Multimode OM5, Feet jacket marking, Lime green jacket color

## Product Classification

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

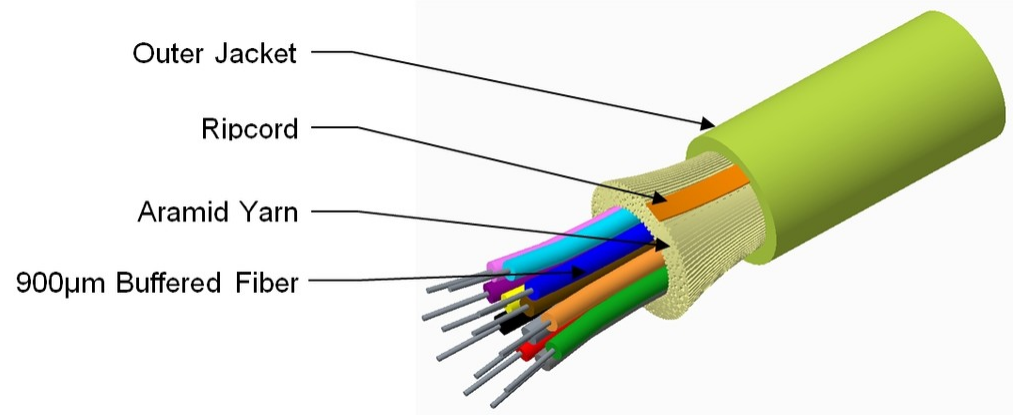
## General Specifications

|                   |              |
|-------------------|--------------|
| Cable Type        | Distribution |
| Construction Type | Non-armored  |
| Subunit Type      | Gel-free     |
| Jacket Color      | Lime green   |
| Jacket Marking    | Feet         |
| Total Fiber Count | 2            |

## Dimensions

|                      |                    |
|----------------------|--------------------|
| Diameter Over Jacket | 3.76 mm   0.148 in |
|----------------------|--------------------|

## Representative Image



## Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 56 mm   2.205 in                      |
| Minimum Bend Radius, unloaded     | 38 mm   1.496 in                      |
| Tensile Load, long term, maximum  | 200 N   44.962 lbf                    |
| Tensile Load, short term, maximum | 667 N   149.948 lbf                   |
| Compression                       | 10 N/mm   57.101 lb/in                |
| Compression Test Method           | FOTP-41   IEC 60794-1 E3              |
| Flex                              | 100 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            | 500 m   1,640.42 ft                   |

## Optical Specifications

|            |   |
|------------|---|
| Fiber Type | OM5, LazrSPEED® wideband   OM5, LazrSPEED® wideband |
|------------|---|

## Environmental Specifications

|                          |                                     |
|--------------------------|-------------------------------------|
| Installation temperature | 0 °C to +70 °C (+32 °F to +158 °F)  |
| Operating Temperature    | -20 °C to +70 °C (-4 °F to +158 °F) |

|                               |                                       |
|-------------------------------|---------------------------------------|
| Storage Temperature           | -40 °C to +70 °C (-40 °F to +158 °F)  |
| Cable Qualification Standards | ANSI/ICEA S-83-596   Telcordia GR-409 |
| Environmental Space           | Plenum                                |
| Flame Test Listing            | NEC OFNP (ETL) and c(ETL)             |
| Flame Test Method             | NFPA 130   NFPA 262                   |

Environmental Test Specifications

|                               |                                     |
|-------------------------------|-------------------------------------|
| Heat Age                      | -20 °C to +85 °C (-4 °F to +185 °F) |
| Heat Age Test Method          | IEC 60794-1 F9                      |
| Low High Bend                 | -20 °C to +70 °C (-4 °F to +158 °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 | 13 kg/km   8.736 lb/kft |
|--------------|-------------------------|

Regulatory Compliance/Certifications

| Agency        | Classification   |
|---------------|--|
| CHINA-ROHS    | Below maximum concentration value  |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |



Included Products

- CS-5G-TB
- LazrSPEED® OM5 WideBand Multimode Fiber

\* Footnotes

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

LazrSPEED®

LazrSPEED® OM5 WideBand Multimode Fiber

Product Classification

|              |               |
|--------------|---------------|
| Portfolio    | CommScope®    |
| Product Type | Optical fiber |

General Specifications

|   |                            |
|---|----------------------------|
| Cladding Diameter                             | 125 µm                     |
| Cladding Diameter Tolerance                   | ±5 µm                      |
| Cladding Non-Circularity, maximum             | 0.7 %                      |
| Coating Diameter (Colored)                    | 254 µm                     |
| Coating Diameter (Uncolored)                  | 242 µm                     |
| Coating Diameter Tolerance (Colored)          | ±7 µm                      |
| Coating Diameter Tolerance (Uncolored)        | ±5 µm                      |
| Coating/Cladding Concentricity Error, maximum | 12 µm                      |
| Core Diameter                                 | 50 µm                      |
| Core Diameter Tolerance                       | ±2.5 µm                    |
| Core/Clad Offset, maximum                     | 1 µm                       |
| Proof Test                                    | 689.476 N/mm²   100000 psi |
| Tight Buffer Diameter                         | 900 µm                     |
| Tight Buffer Diameter Tolerance               | ±40 µm                     |

Mechanical Specifications

|  |                                       |
|--|---------------------------------------|
| Macrobending, 15 mm Ø mandrel, 2 turns   | 0.20 dB @ 850 nm   0.50 dB @ 1,300 nm |
| Macrobending, 30 mm Ø mandrel, 2 turns   | 0.10 dB @ 850 nm   0.30 dB @ 1,300 nm |
| Macrobending, 75 mm Ø mandrel, 100 turns | 0.50 dB @ 1,300 nm   0.50 dB @ 850 nm |
| Coating Strip Force, maximum             | 4.5 N   1.012 lbf                     |
| Coating Strip Force, minimum             | 0.9 N   0.202 lbf                     |
| Dynamic Fatigue Parameter, minimum       | 18                                    |

# CS-5G-TB

## Optical Specifications

|                                      |   |
|--------------------------------------|---|
| Numerical Aperture                   | 0.2   |
| Numerical Aperture Tolerance         | ±0.010  |
| Point Defects, maximum               | 0.15 dB   |
| Zero Dispersion Slope, maximum (OM5) | $-412/(840(1-(\lambda_0/840)^4))$ ps/[km-nm-nm] |
| Zero Dispersion Wavelength, maximum  | 1328 nm   |
| Zero Dispersion Wavelength, minimum  | 1297 nm   |

## Optical Specifications, Wavelength Specific

|                           |  |
|---------------------------|--|
| 1 Gbps Ethernet Distance  | 1,110 m @ 850 nm   600 m @ 1,300 nm  |
| 10 Gbps Ethernet Distance | 550 m @ 850 nm   |
| Attenuation, maximum      | 1.00 dB/km @ 1,300 nm   2.20 dB/km @ 953 nm   3.00 dB/km @ 850 nm  |
| Bandwidth, Laser, minimum | 2,600 MHz-km @ 953 nm   4,700 MHz-km @ 850 nm   500 MHz-km @ 1,300 nm  |
| Bandwidth, OFL, minimum   | 1,950 MHz-km @ 953 nm   3,500 MHz-km @ 850 nm   500 MHz-km @ 1,300 nm  |
| Index of Refraction       | 1.478 @ 1,300 nm   1.483 @ 850 nm  |
| Standards Compliance      | ANSI/TIA-492AAAF (OM5)   ANSI/TIA-568.3 (OM5)   IEC 60793-2-10, A1 (OM5)   ISO/IEC 11801-1 cabled optical fiber performance category OM5 |

## Environmental Specifications

|                                       |                    |
|---------------------------------------|--------------------|
| Heat Aging, maximum                   | 0.10 dB/km @ 85 °C |
| Temperature Dependence, maximum       | 0.1 dB/km          |
| Temperature Humidity Cycling, maximum | 0.1 dB/km          |
| Water Immersion, maximum              | 0.10 dB/km @ 23 °C |

## Regulatory Compliance/Certifications

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

## \* Footnotes

|                                       |   |
|---------------------------------------|---|
| 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) |

# CS-5G-TB

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up to 95% relative humidity