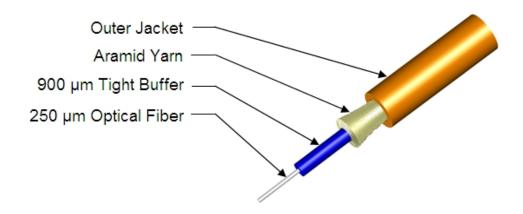
R-001-SP-5L-F16

Fiber indoor cable, LazrSPEED® 1.6 mm Riser Simplex, Multimode OM3, Feet jacket marking

Product Classification

| Regional Availability | Asia Australia/New Zealand Latin America Middle East/Africa North America |
|------------------------|--|
| Portfolio | CommScope® |
| Product Type | Fiber indoor cable |
| Product Series | R-SP |
| General Specifications | |
| Cable Type | Cordage |
| Construction Type | Non-armored |
| Subunit Type | Gel-free |
| Jacket Marking | Feet |
| Total Fiber Count | 1 |
| Dimensions | |
| Diameter Over Jacket | 1.7 mm 0.067 in |

Representative Image



Mechanical Specifications

Minimum Bend Radius, loaded

38 mm | 1.496 in

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| Minimum Bend Radius, unloaded | 15 mm 0.591 in |
|-----------------------------------|---------------------------------------|
| Tensile Load, long term, maximum | 29 N 6.519 lbf |
| Tensile Load, short term, maximum | 7 N 1.574 lbf |
| Compression | 10 N/mm 57.101 lb/in |
| Compression Test Method | FOTP-41 IEC 60794-1 E3 |
| Flex | 300 cycles |
| Flex Test Method | FOTP-104 IEC 60794-1 E6 |
| Impact | 0.74 N-m 6.55 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 | |

Optical Specifications

Fiber Type

OM3, LazrSPEED® 300 | OM3, LazrSPEED® 300

Environmental Specifications

| Installation temperature | -20 °C to +70 °C (-4 °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 | Riser |
| Flame Test Listing | NEC OFNR (ETL) and c(ETL) |
| Flame Test Method | UL 1666 |

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) |

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R-001-SP-5L-F16

Temperature Cycle Test Method

FOTP-3 | IEC 60794-1 F1

Packaging and Weights

Cable weight

3 kg/km | 2.016 lb/kft

Regulatory Compliance/Certifications

Classification

Agency

ISO 9001:2015

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



Included Products

CS-5L-TB

LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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LazrSPEED[®] 300 LazrSPEED[®] 300 OM3 Bend-Insensitive Multimode Fiber

Product Classification

| Portfolio | CommScope® |
|---|----------------------------|
| Product Type | Optical fiber |
| General Specifications | |
| Cladding Diameter | 125 µm |
| Cladding Diameter Tolerance | ±0.8 μm |
| Cladding Non-Circularity, maximum | 1 % |
| Coating Diameter (Colored) | 254 µm |
| Coating Diameter (Uncolored) | 245 µm |
| Coating Diameter Tolerance (Colored) | ±7 μm |
| Coating Diameter Tolerance (Uncolored) | ±10 μm |
| Coating/Cladding Concentricity Error, maximum | 12 µm |
| Core Diameter | 50 µm |
| Core Diameter Tolerance | ±2.5 μm |
| Core/Clad Offset, maximum | 1.5 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 | 8.9 N 2.001 lbf |
| Coating Strip Force, minimum | 1.3 N 0.292 lbf |
| Dynamic Fatigue Parameter, minimum | 18 |
| Optical Specifications | |
| Numerical Aperture | 0.2 |

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CS-5L-TB

| Numerical Aperture Tolerance | ±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 | 1,020 m @ 850 nm 600 m @ 1,300 nm |
|------------------------------|--|
| 10 Gbps Ethernet Distance | 300 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 | 2,000 MHz-km @ 850 nm 500 MHz-km @ 1,300 nm |
| Bandwidth, OFL, minimum | 1,500 MHz-km @ 850 nm 500 MHz-km @ 1,300 nm |
| Differential Mode Delay | 0.70 ps/m @ 850 nm 0.88 ps/m @ 1,300 nm |
| Differential Mode Delay Note | Superior to TIA-492AAAC and IEC 60793-2-10 at 850 nm |
| Index of Refraction | 1.479 @ 1,300 nm 1.483 @ 850 nm |
| Standards Compliance | TIA-492AAAC (OM3) |

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

Classification

Agency

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



ISO 9001:2015

* Footnotes

| Temperature | Dependence, | maximum |
|-------------|--------------|--------------|
| Temperature | Humidity Cyc | ling maximum |

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

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

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