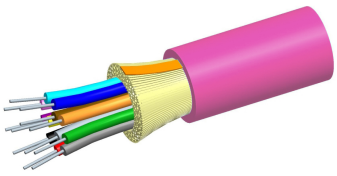
# 760239653 | N-006-DS-5L-FSURS/D



Fiber indoor cable, LazrSPEED® Low Smoke Zero Halogen Riser Distribution, 6 fiber single-unit, Multimode OM3, Feet jacket marking, Rose jacket color, Dca flame rating

## Product Classification

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

## General Specifications

| | |
|---|---|
| **Cable Type** | Distribution |
| **Construction Type** | Non-armored |
| **Subunit Type** | Gel-free |
| **Jacket Color** | Rose |
| **Jacket Marking** | Feet |
| **Total Fiber Count** | 6 |

## Dimensions

| | |
|---|---|
| **Diameter Over Jacket** | 5.07 mm \| 0.2 in |

## Representative Image



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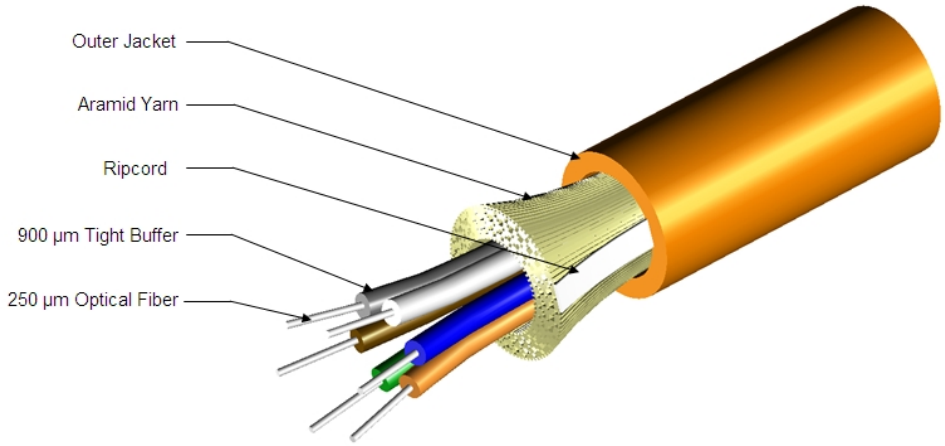
# 760239653 | N-006-DS-5L-FSURS/D




## Mechanical Specifications

| | |
|---|---|
| **Minimum Bend Radius, loaded** | 76 mm \| 2.992 in |
| **Minimum Bend Radius, unloaded** | 51 mm \| 2.008 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** | 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** | OM3, LazrSPEED® 300 \| OM3, LazrSPEED® 300 |

## Environmental Specifications



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| | |
|---|---|
| **Installation temperature** | -10 °C to +60 °C (+14 °F to +140 °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 |
| **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 |

## 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** | -10 °C to +60 °C (+14 °F to +140 °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** | 24 kg/km \| 16.127 lb/kft |

## Regulatory Compliance/Certifications

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



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



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# CS-5L-TB

## 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, 37.5 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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| | |
|---|---|
| **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

| 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) up to 95% relative humidity |



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