



Indoor/Outdoor Low Smoke Zero Halogen, LazrSPEED® Central Loose Tube Fiber Optic Cable, 8-fiber, Multimode OM3, Gel-free black. Provides Rodent Resistance.

Product Classification

|                       |                                     |
|-----------------------|-------------------------------------|
| Regional Availability | Asia   Australia/New Zealand   EMEA |
| Portfolio             | CommScope®                          |
| Product Type          | Fiber indoor/outdoor cable          |
| Product Series        | C-CN                                |

General Specifications

|                              |   |
|------------------------------|---|
| Cable Type                   | Loose tube  |
| Subunit Type                 | Gel-free  |
| Filler, quantity             | 1   |
| Jacket Color                 | Black   |
| Jacket Marking               | Meters  |
| Jacket Marking Method        | Inkjet  |
| Jacket Marking Text          | COMMScope GB OPTICAL CABLE 760254784 INT/EXT RODENT RESISTANT DLT 8 X 50/125UM OM3 EN50575 CLASS D (Serial NUMBER) (METRE MARK) |
| Fibers per Subunit, quantity | 8   |
| Total Fiber Count            | 8   |

Dimensions

|                      |                      |
|----------------------|----------------------|
| Cable Length         | 2000 m   6,561.68 ft |
| Diameter Over Jacket | 6.4 mm   0.252 in    |

Mechanical Specifications

|                                   |                      |
|-----------------------------------|----------------------|
| Minimum Bend Radius, loaded       | 139.7 mm   5.5 in    |
| Minimum Bend Radius, unloaded     | 129.5 mm   5.098 in  |
| Tensile Load, long term, maximum  | 650 N   146.126 lbf  |
| Tensile Load, short term, maximum | 1250 N   281.011 lbf |

Optical Specifications

Fiber TypeOM3

Optical Specifications, Wavelength Specific

Attenuation, maximum1.00 dB/km @ 1,300 nm | 3.50 dB/km @ 850 nm

Standards ComplianceIEC 60794-1 | TIA-492AAAC (OM3)

Environmental Specifications

Installation temperature-5 °C to +50 °C (+23 °F to +122 °F)

Operating Temperature-10 °C to +70 °C (+14 °F to +158 °F)

Storage Temperature-10 °C to +70 °C (+14 °F to +158 °F)

EN50575 CPR Cable EuroClass Fire PerformanceDca

EN50575 CPR Cable EuroClass Smoke Ratings2

EN50575 CPR Cable EuroClass Droplets Ratingd2

EN50575 CPR Cable EuroClass Acidity Ratinga1

Environmental SpaceLow Smoke Zero Halogen (LSZH)

Packaging and Weights

Cable weight47 kg/km | 31.583 lb/kft

Included Products

CS-5L-LT – LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber

\* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

## LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber

### LazrSPEED® 300

#### Product Classification

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

#### General Specifications

|   |                        |
|---|------------------------|
| Cladding Diameter                             | 125 µm                 |
| Cladding Diameter Tolerance                   | ±5 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 Tensile Stress                          | 100,000 psi (0.69 GPa) |

#### 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 |
|--------------------|-----|

# CS-5L-LT

|                                     |                     |
|-------------------------------------|---------------------|
| 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  |
| Differential Mode Delay Note | Superior to ANSI/TIA TIA-492AAAF and IEC 60793-2-10 at 850 nm |
| Index of Refraction          | 1.479 @ 1,300 nm   1.483 @ 850 nm                             |
| Standards Compliance         | ANSI/TIA-492AAAF (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 |