

Fiber Indoor/Outdoor Cable, 8-fiber, multimode OM4, gel-free, aqua jacket color, Dca Flame Rating, Meters jacket marking, 2000 meters

OBSOLETE

This product was discontinued on: March 31, 2023

Product Classification

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

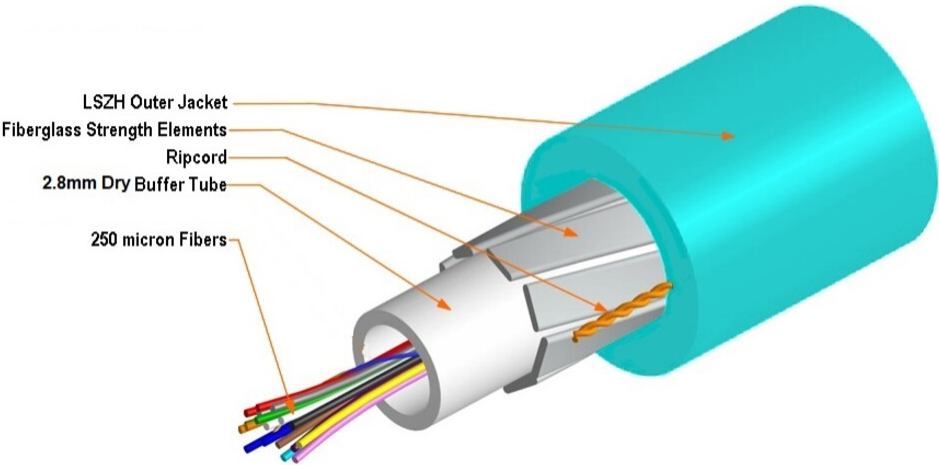
General Specifications

|                              |            |
|------------------------------|------------|
| Cable Type                   | Loose tube |
| Subunit Type                 | Gel-free   |
| Filler, quantity             | 1          |
| Jacket Color                 | Aqua       |
| Jacket Marking               | Meters     |
| 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    |

Representative Image



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 Type | OM4 |
|------------|-----|

Optical Specifications, Wavelength Specific

|                      |   |
|----------------------|---|
| Attenuation, maximum | 1.00 dB/km @ 1,300 nm   3.50 dB/km @ 850 nm |
| Standards Compliance | IEC 60794-1   TIA-492AAAD (OM4)             |

Environmental Specifications

|  |  |
|--|--|
| Installation temperature                     | -5 °C to +50 °C (+23 °F to +122 °F)      |
| Operating Temperature                        | -20 °C to +70 °C (-4 °F to +158 °F)      |
| Storage Temperature                          | -10 °C to +70 °C (+14 °F to +158 °F)     |
| EN50575 CPR Cable EuroClass Fire Performance | Dca                                      |
| EN50575 CPR Cable EuroClass Smoke Rating     | s2                                       |
| EN50575 CPR Cable EuroClass Droplets Rating  | d2                                       |
| EN50575 CPR Cable EuroClass Acidity Rating   | a1                                       |
| Environmental Space                          | Universal Low Smoke Zero Halogen (ULSZH) |

Packaging and Weights

Cable weight47 kg/km | 31.583 lb/kft

Regulatory Compliance/Certifications

| Agency     | Classification   |
|------------|--|
| CHINA-ROHS | Below maximum concentration value  |
| REACH-SVHC | Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS       | Compliant  |
| UK-ROHS    | Compliant  |



Included Products

|          |   |
|----------|---|
| CS-5K-LT | – LazrSPEED® 550 OM4 Bend-Insensitive Multimode Fiber |
|----------|---|

\* Footnotes

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

## LazrSPEED® 550 OM4 Bend-Insensitive Multimode Fiber

### LazrSPEED® 550

#### 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-5K-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     | 1,110 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   3.00 dB/km @ 850 nm                   |
| Backscatter Coefficient      | -68.0 dB @ 850 nm   -75.7 dB @ 1,300 nm                       |
| Bandwidth, Laser, minimum    | 4,700 MHz-km @ 850 nm   500 MHz-km @ 1,300 nm                 |
| Bandwidth, OFL, minimum      | 3,500 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 (OM4)   IEC 60793-2-10, A1 (OM4)             |

## 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 |