

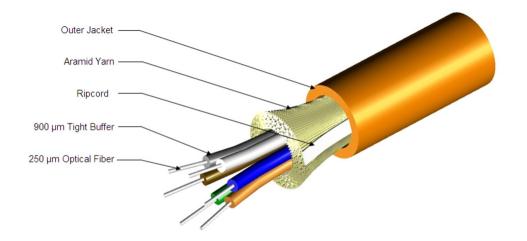
Fiber indoor cable, TeraSPEED® Low Smoke Zero Halogen Riser Distribution, 12 fiber single-unit, Gel-free, Singlemode + Multimode OM3, Feet jacket marking, Aqua jacket color, Dca flame rating

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 | Aqua |
| Jacket Marking | Feet |
| Composite Fiber Count | 4 + 8 |
| Total Fiber Count | 12 |
| Dimensions | |
| Diameter Over Jacket | 6.07 mm 0.239 in |
| Representative Image | |

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Mechanical Specifications

| Minimum Bend Radius, loaded | 91 mm 3.583 in |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, unloaded | 61 mm 2.402 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 | |
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Fiber Type

Composite MM/SM | G.652.D and G.657.A1, TeraSPEED® | 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

34 kg/km | 22.847 lb/kft

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CENELEC | EN 50575 compliant, Declaration of Performance (DoP) available |
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |
| | |



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| CS-5L-TB | - | LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber |
|----------|---|--|
| CS-8W-TB | - | TeraSPEED® Singlemode Fiber |

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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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 | ±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 |

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CS-5L-TB

| Coating Strip Force, minimum | 1.3 N 0.292 lbf |
|-------------------------------------|---------------------|
| Dynamic Fatigue Parameter, minimum | 18 |
| Optical Specifications | |
| Numerical Aperture | 0.2 |
| 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 \mid 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

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Temperature Dependence, maximumTemperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)Temperature Humidity Cycling, maximumTemperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F)

up to 95% relative humidity

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TeraSPEED® Singlemode Fiber

TeraSPEED®

Product Classification

| Portfolio | CommScope® |
|---|---|
| Product Type | Optical fiber |
| General Specifications | |
| Cladding Diameter | 125 µm |
| Cladding Diameter Tolerance | ±0.7 µm |
| Cladding Non-Circularity, maximum | 0.7 % |
| Coating Diameter (Colored) | 249 µm |
| Dating Diameter (Uncolored) 242 µm | |
| Coating Diameter Tolerance (Colored)±13 μm | |
| Coating Diameter Tolerance (Uncolored)±5 µm | |
| Coating/Cladding Concentricity Error, maximum 12 µm | |
| Core Diameter | 8.3 µm |
| Core/Clad Offset, maximum | 0.5 µm |
| Proof Test | 689.476 N/mm² 100000 psi |
| Tight Buffer Diameter | 900 µm |
| Tight Buffer Diameter Tolerance | ±40 μm |
| Dimensions | |
| Fiber Curl, minimum | 4 m 13.123 ft |
| Mechanical Specifications | |
| Macrobending, 20 mm Ø mandrel, 1 turn | 0.75 dB @ 1,550 nm 1.50 dB @ 1,625 nm |
| Macrobending, 30 mm Ø mandrel, 10 turns | 0.25 dB @ 1,550 nm 1.00 dB @ 1,625 nm |

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| Macrobending, 60 mm Ø mandrel, 100 turns | 0.05 dB @ 1,550 nm 0.05 dB @ 1,625 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 | 20 |
| Optical Specifications | |
| Cabled Cutoff Wavelength, maximum | 1260 nm |
| Point Defects, maximum | 0.1 dB |
| Zero Dispersion Slope, maximum | 0.092 ps/[km-nm-nm] |
| Zero Dispersion Wavelength, maximum | 1324 nm |
| Zero Dispersion Wavelength, minimum | 1300 nm |
| Optical Specifications, Wavelength Specific | |
| Attenuation, maximum | 0.50 dB/km @ 1,310 nm 0.50 dB/km @ 1,385 nm 0.50 dB/km @ 1,490 nm 0.50 dB/km @ 1,550 nm 0.50 dB/km @ 1,575 nm 0.70 dB/km @ 1,270 nm |
| Backscatter Coefficient | -79.6 dB @ 1,310 nm -82.1 dB @ 1,550 nm |
| Dispersion, maximum | 18 ps(nm-km) at 1550 nm 3.5 ps(nm-km) from 1285 nm to 1330 nm at 1310 nm |
| Index of Refraction | 1.467 @ 1,310 nm 1.467 @ 1,385 nm 1.468 @ 1,550 nm |
| Mode Field Diameter | 10.4 μm @ 1,550 nm 9.2 μm @ 1,310 nm 9.6 μm @ 1,385 nm |
| Mode Field Diameter Tolerance | ±0.4 μm @ 1310 nm ±0.5 μm @ 1550 nm ±0.6 μm @ 1385 nm |
| Polarization Mode Dispersion Link Design Value, maximum | 0.04 ps/sqrt(km) |
| Standards Compliance | ITU-T G.652.D ITU-T G.657.A1 TIA-492CAAB (OS1a) |
| | |
| Environmental Specifications | |
| Heat Aging, maximum | 0.05 dB/km @ 85 °C |
| Temperature Dependence, maximum | 0.05 dB/km |

0.05 dB/km

0.05 dB/km @ 23 °C

Temperature Humidity Cycling, maximum Water Immersion, maximum

Regulatory Compliance/Certifications

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CS-8W-TB

Agency

ISO 9001:2015

Classification

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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