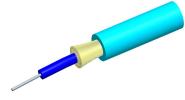
760146167 | P-001-SP-8W-F16AQ



Fiber indoor cable, TeraSPEED® 1.6 mm Plenum, 1 fiber, Singlemode G. 652.D and G.657.A1, Feet jacket marking, Aqua jacket color

Product Classification

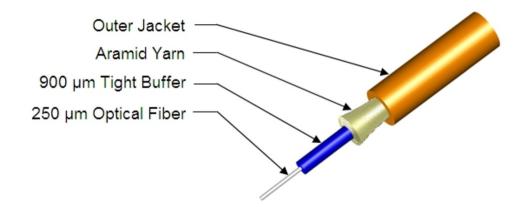
| Regional Availability | Asia Australia/New Zealand Latin America Middle East/Africa North America |
|------------------------|--|
| Portfolio | CommScope® |
| Product Type | Fiber indoor cable |
| Product Series | P-SP |
| General Specifications | |
| Cable Type | Cordage |
| Construction Type | Non-armored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

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Mechanical Specifications

| Minimum Bend Radius, loaded | 38 mm 1.496 in |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, unloaded | 15 mm 0.591 in |
| Tensile Load, long term, maximum | 29 N 6.519 lbf |
| Tensile Load, short term, maximum | 98 N 22.031 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 | |

Fiber Type

G.652.D and G.657.A1, TeraSPEED®

Environmental Specifications

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| Installation temperature | 0 °C to +70 °C (+32 °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 | Plenum | |
| Flame Test Listing | NEC OFNP (ETL) and c(ETL) | |
| Flame Test Method | NFPA 130 NFPA 262 | |

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) | |
| Temperature Cycle Test Method | FOTP-3 IEC 60794-1 F1 | |
| | | |

Packaging and Weights

Cable weight

3 kg/km | 2.016 lb/kft

Included Products

CS-8W-TB - TeraSPEED® Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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TeraSPEED®

TeraSPEED® Singlemode Fiber

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 | |
| Coating 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 Tensile Stress | 100,000 psi (0.69 GPa) | |
| 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 | |
| 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 | |

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CS-8W-TB

| 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 |
| Temperature Humidity Cycling, maximum | 0.05 dB/km |
| Water Immersion, maximum | 0.05 dB/km @ 23 °C |

Regulatory Compliance/Certifications

Classification

ISO 9001:2015

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

* Footnotes

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CS-8W-TB

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