CS-8Z-TB-0.40/0.30/093

Low Water Peak, Dispersion-Unshifted 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 | 1 % |
| Coating Diameter (Colored) | 250 μm |
| Coating Diameter (Uncolored) | 245 µm |
| Coating Diameter Tolerance (Colored) | ±10 μm |
| Coating Diameter Tolerance (Uncolored) | ±10 μm |
| Coating/Cladding Concentricity Error, maximum | 12 µm |
| Core/Clad Offset, maximum | 0.5 μm |
| Proof Tensile Stress | 100,000 psi (0.69 GPa) |
| 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 |
| 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 |
| - | |

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| Zero Dispersion Wavelength, minimum | | 1300 nm |
|--|---|--|
| Optical Specifications, Wavelen | gth Specific | |
| Attenuation, maximum | | 0.30 dB/km @ 1,550 nm 0.40 dB/km @ 1,310 nm 0.40 dB/km @ 1,385 nm |
| Index of Refraction | | 1.467 @ 1,310 nm 1.468 @ 1,550 nm 1.468 @ 1,625 nm |
| Mode Field Diameter | | 9.0 μm @ 1,310 nm |
| Mode Field Diameter Tolerance | | ±0.4 μm @ 1310 nm |
| Polarization Mode Dispersion Link Design Value | , maximum | 0.1 ps/sqrt(km) |
| Standards Compliance | | ITU-T G.652.D ITU-T G.657.A1 TIA-492CAAB (OS2) |
| | | |
| 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 |
| * 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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