

CS-8A-LT

Type 8A Optical Fiber Dispersion-Shifted, Matched-Clad Large Effective Area Singlemode Fiber for ; ITU-T G.654.E

Product Classification

Portfolio	CommScope®
Product Type	Optical fiber

General Specifications

Cladding Diameter	125 µm
Cladding Diameter Tolerance	±1.0 µm
Cladding Non-Circularity, maximum	1 %
Coating Diameter (Colored)	249 µm
Coating Diameter (Uncolored)	240 µm
Coating Diameter Tolerance (Colored)	±15 µm
Coating Diameter Tolerance (Uncolored)	±5 µm
Coating/Cladding Concentricity Error, maximum	12 µm
Core/Clad Offset, maximum	0.6 µm
Proof Tensile Stress	100,000 psi (0.69 GPa)

Dimensions

Fiber Curl, minimum	4 m 13.123 ft
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Mechanical Specifications

Macrobending, 60 mm Ø mandrel, 100 turns	0.03 dB @ 1,550 nm 0.10 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	1530 nm
Dispersion Slope	0.070 ps/[km-nm-nm] @ 1,550 nm
Point Defects, maximum	0.1 dB

Optical Specifications, Wavelength Specific

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Attenuation, maximum	0.23 dB/km @ 1,550 nm 0.25 dB/km @ 1,625 nm
Attenuation, typical	0.21 dB/m @ 1,550 nm
Index of Refraction	1.465 @ 1,550 nm 1.465 @ 1,625 nm
Mode Field Diameter	11.6 μm @ 1,550 nm 12.6 μm @ 1,625 nm
Mode Field Diameter Tolerance	±0.4 μm @ 1550 nm ±0.6 μm @ 1625 nm
Polarization Mode Dispersion Link Design Value, maximum	0.1 ps/sqrt(km)

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system