

EDF-L 1500

Erbium-doped single-clad fiber



As various applications require efficient energy conversion over the wavelength band, the EDF-L 1500 single-clad fiber has been designed to provide constant performances over the C-band. Its high absorption also limits nonlinear effects, making this product a great solution for the design of ASE sources for telecom applications.

Features & Benefits

- High absorption
- Low background losses
- High doping concentration – provides highly efficient energy transfer
- Low splice loss
- Compatible with industry-standard SMF-28™ fiber

Applications

- Erbium-Doped Fiber Amplifiers (EDFA)
- ASE sources
- Telecom

Specifications

Optical

Core Absorption @ 980 nm (dB/m)	12
Core Absorption @ 1530 nm – Nominal (dB/m)	21 ± 3
Numerical Aperture – Core	0.25
Cutoff Wavelength (nm)	900 ± 50
Background Loss @ 1200 nm (dB/km)	< 10
Mode Field Diameter (µm)	5.9 ± 0.6

Geometrical & Mechanical

Core Diameter – Nominal (µm)	6.3
Cladding Diameter (µm)	125.0 ± 0.5
Core/Cladding Concentricity Error (µm)	< 0.5
Cladding Geometry	Octagonal
Coating Diameter (µm)	245 ± 10
Proof Test (kpsi)	≥ 150

ISO 9001:2015 certified quality system | RoHS and REACH compliant.
All specifications are subject to change without notice. Reference: 100-10-0132.R2