



# EDF-L 1500

## Erbium-doped single-clad fiber

As various applications require efficient energy conversion over the wavelength band, the EDF-L 1500 singleclad 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

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Background Loss @1200 nm (dB/km)	≤ 10
Core Absorption @ 1530 nm (dB/m)	21 ± 3
Core Absorption @ 980 nm (dB/m)	≥ 12
Cutoff Wavelength (nm)	900 ± 50
MFD @ 1550nm (μm)	5.9 ± 0.6
Numerical Aperture - Core	Typ. 0.250

#### Geometrical & Mechanical

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Cladding diameter (μm)	125 ± 1
Coating Diameter (μm)	245 ± 10
Core/Cladding Concentricity Error (μm)	≤ 0.5
Proof Test (kpsi)	≤ 150

#### Environmental

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Storage Temperature (°C)	-40 to +85
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