

# ER8-6

## Erbium-doped single-clad fiber



This Er-doped single-clad fiber features a high absorption and high quantum efficiency that make this product the ideal solution for the design of optical telecom amplifiers. Erbium-doped single-clad fibers come in various doping concentrations, with different optical and geometrical characteristics to fit the diverse requirements and applications.

### Features & Benefits

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- Low background losses
- High doping concentration – provides highly efficient signal transfer
- Low splice loss

### Applications

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- Erbium-doped fiber amplifiers (EDFA)
- Telecom

### Specifications

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#### Optical

Core Absorption @ 980 nm (dB/m)	≥ 6.0
Core Absorption @ 1535 nm - Nominal (dB/m)	8 ± 1
Numerical Aperture - Core	0.22
Background Loss @ 1200 nm (dB/km)	< 10
Cutoff wavelength (nm)	900 ± 50
Mode Field Diameter @ 1550 nm (µm)	6.5 ± 0.5

#### Geometrical & Mechanical

Core Diameter (µm)	4 ± 0.5
Cladding Diameter (µm)	125 ± 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: 101-10-0628.R1