

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

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

Applications

- Erbium - doped fiber amplifiers (EDFA)
- Telecom

Specifications

Optical

| | |
|----------------------------------|-----------|
| Background Loss @1200 nm (dB/km) | 5 ± 5 |
| Core Absorption @ 1530 nm (dB/m) | 8 ± 1 |
| Core Absorption @ 980 nm (dB/m) | >= 6 |
| Cutoff Wavelength (nm) | 900 ± 50 |
| MFD @ 1550nm (µm) | 6.5 ± 0.5 |

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 |
|--------------------------|------------|