



ER12-6

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. It is also an excellent alternative to the ER8-6 fiber, as its higher absorption would benefit the efficiency required by some telecom applications.

Features & Benefits

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

Applications

- Erbium-doped fiber amplifiers (EDFA)
- Telecom

Specifications

Optical

Background Loss @1200 nm (dB/km)	≤ 10
Core Absorption @ 1530 nm (dB/m)	12 ± 2
Core Absorption @ 980 nm (dB/m)	≥ 7
Cutoff Wavelength (nm)	900 ± 50
MFD @ 1550nm (μm)	6.5 ± 0.5
Numerical Aperture - Core	Typ. 0.22

Geometrical & Mechanical

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

Environmental

Storage Temperature (°C)	-40 to +85
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