

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

Core Absorption @ 980 nm (dB/m)	≥ 7.0
Core Absorption @ 1530 nm – Nominal (dB/m)	12 ± 2
Numerical Aperture – Core	0.22
Background Loss @ 1200 nm (dB/km)	< 10.0
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)	245 ± 10
Core/Cladding Concentricity Error (µm)	< 0.5
Coating Diameter (µm)	245 ± 10
Proof Test (kpsi)	≥ 100

ISO 9001:2015 certified quality system | RoHS and REACH compliant.
All specifications are subject to change without notice. Reference: 100-10-0606.R1