

ER35-7

Erbium-doped single-clad fiber



This Er-doped single-clad fiber features a high absorption, which is ideal for the design of multi-stage erbium amplifiers with minimal nonlinear effects. Its high quantum efficiency helps minimize the pump power requirements, making this fiber the recommended choice for fiber lasers in a broad range of applications.

Features & Benefits

- High absorption
- Low background losses
- High doping concentration – provides highly efficient energy transfer, minimizing pump power requirements
- Low splice loss

Applications

- Pre-amp stage of erbium-doped fiber lasers & amplifiers
- Sensing & spectroscopy
- Scientific

Related Products

- [ER35-7-PM](#)
Polarization-maintaining version

Specifications

Optical

Core Absorption @ 1530 nm – Nominal (dB/m)	35 ± 5
Numerical Aperture – Core	0.22
Background Loss @ 1200 nm (dB/km)	< 20.0
Cutoff Wavelength (nm)	1450 ± 50
Mode Field Diameter @ 1550 nm (µm)	6.5 ± 0.5

Geometrical & Mechanical

Core Diameter (µm)	5.5
Cladding Diameter (µm)	125 ± 2
Core/Cladding Concentricity Error (µm)	< 1.0
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: 101-10-0716.R1