SCF-ER28-8/125-14-L

L-band erbium-doped single-clad fiber

Designed for high-performance L-band amplification, this fiber provides excellent gain efficiency, outstanding gain flatness across the 1565–1620 nm wavelength range, low noise characteristics, and superior signal quality. Its single-mode core ensures low dispersion and excellent beam quality, making it an ideal solution for telecommunications networks, optical amplifiers, and advanced photonic applications.

Features & Benefits

- Optimized for L-band operation.
- Match standard telecom fibers.
- Uniforme gain profile.
- Reduces ASE, improving signal quality and OSNR.

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Applications

- L-band optical amplifiers (EDFAs)
- Long-haul and ultra-long-haul transmission
- Optical repeaters and inline amplifiers
- High-performance optical communication systems

Specifications

Optical

Background Loss @1200 nm (dB/km)	<= 20
Core Absorption @ 1535 nm (dB/m)	27 ± 2
Core Absorption @ 980 nm (dB/m)	>= 8
Cutoff Wavelength (nm)	1300 ± 150
MFD @ 1550nm (µm)	9.5 ± 1
Numerical Aperture - Core	Typ. 0.13

Geometrical & Mechanical

Cladding diameter (µm)	125 ± 1
Coating Diameter (µm)	245 ± 10
Core Diameter (µm)	8 ± 1
Core/Cladding Concentricity Error (µm)	<= 1
Proof Test (kpsi)	>= 100