



## Features

- **Direct Nanoparticle Deposition:** Industry leading fiber deposition process
- **Performance:**  
Short application length for reduced nonlinear effects  
Low polarization mode dispersion, typical value <25 fs/m  
Suitable for both 980nm and 1480nm pumping
- **Reliability:** Telecom grade dual layer UV-cured acrylate coating
- **Compatibility:**  
Telecom-like geometry with good spliceability to standard SM fibers  
Telcordia GR-1312-CORE Generic Requirements qualified

## Applications

- C- and L-band amplifiers
- ASE sources
- Pre-amplifier for high power LIDAR

## Typical Fiber Specifications

Fiber		LIEKKI® Er40-4/125
Optical	Units	
Mode Field Diameter at 1550 nm <sup>(1)</sup>	μm	6.5 ± 0.5
Peak Core Absorption at 1530 nm	dB/m	40.0 ± 4.0
Core Numerical Aperture (nominal)		0.2
Cut-off wavelength <sup>(2)</sup>	nm	890 ± 90
Geometrical and mechanical		
Core Concentricity Error, ≤	μm	0.7
Core Ellipticity Error, ≤	%	4.0
Cladding Diameter	μm	125 ± 2
Cladding Geometry		Round
Coating Diameter		245 ± 15
Coating Material		Dual coated high index acrylate
Proof Test, ≥	kpsi	100

<sup>(1)</sup> Near-field Mode Field Diameter

<sup>(2)</sup> Calculated value