



### Features

- **Direct Nanoparticle Deposition:** Industry leading fiber deposition process
- **Performance:**  
Very high Erbium doping for short application length and low nonlinearities  
Suitable for both 980nm and 1480nm pumping  
Polarization maintaining version available
- **Reliability:** Telecom grade dual layer UV-cured acrylate coating
- **Compatibility:** Telecom-like geometry with good spliceability to standard SM fibers

### Applications

- Ultrashort (fs) pulsed amplifiers and lasers
- Applications requiring low non-linearity

### Typical Fiber Specifications

Fiber		LIEKKI® Er110-4/125	LIEKKI® Er110-4/125-PM
<b>Optical</b>		<b>Units</b>	
Mode Field Diameter at 1550 nm <sup>(1)</sup>	µm	6.5 ± 0.5	6.5 ± 1.0
Peak Core Absorption at 1530 nm	dB/m	110.0 ± 10.0	110.0 ± 10.0
Core Numerical Aperture (nominal)		0.2	0.2
Cut-off wavelength <sup>(2)</sup>	nm	890 ± 90	890 ± 90
Birefringence, ≥	1E-04	-	1.0
<b>Geometrical and mechanical</b>			
Core Concentricity Error, ≤	µm	0.7	0.7
Core Ellipticity Error, ≤	%	5.0	5.0
Cladding Diameter	µm	125 ± 2	125 ± 2
Cladding Geometry		Round	Round, PANDA
Coating Diameter		245 ± 15	245 ± 15
Coating Material		Dual coated high index acrylate	Dual coated high index acrylate
Proof Test, ≥	kpsi	100	100

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

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