



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 (SMF-28)

Applications

- Short pulsed amplifiers and lasers
- Medium power, low nonlinearity applications
- Pre-amplifier for LIDAR

Typical Fiber Specifications

Fiber		LIEKKI® Er80-8/125	LIEKKI® Er80-8/125-PM
Optical		Units	
Mode Field Diameter at 1550 nm ⁽¹⁾	µm	9.5 ± 0.8	9.5 ± 0.8
Peak Core Absorption at 1530 nm	dB/m	80.0 ± 8.0	80.0 ± 16.0
Core Numerical Aperture (nominal)		0.13	0.13
Cut-off wavelength ⁽²⁾	nm	1250 ± 150	1250 ± 150
Birefringence, ≥	1E-04	-	1.0
Geometrical and mechanical			
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

⁽¹⁾ Near-field Mode Field Diameter

⁽²⁾ Calculated value