



Features

- **Direct Nanoparticle Deposition:** Industry leading fiber deposition process
- **Performance:**
High Erbium doping for short application length and low nonlinearities
Unique fiber design for high normal dispersion
Suitable for both 980nm and 1480nm pumping
- **Reliability:** Telecom grade dual layer UV-cured acrylate coating

Applications

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

Typical Fiber Specifications

Fiber		LIEKKI® Er80-4/125-HD-PM
Optical	Units	
Mode Field Diameter at 1550 nm ⁽¹⁾	µm	6.5 ± 1.0
Peak Core Absorption at 1530 nm	dB/m	80.0 ± 20.0
Core Numerical Aperture (nominal)		0.2
Cut-off wavelength ⁽²⁾	nm	890 ± 90
Dispersion parameter at 1550 nm (nominal) ⁽³⁾	ps/(nm*km)	-22
Birefringence, ≥	1E-04	1.0
Geometrical and mechanical		
Core Concentricity Error, ≤	µm	0.7
Core Ellipticity Error, ≤	%	5.0
Cladding Diameter	µm	125 ± 3
Cladding Geometry		Round, PANDA
Coating Diameter		245 ± 15
Coating Material		Dual coated high index acrylate
Proof Test, ≥	kpsi	100

⁽¹⁾ Near-field Mode Field Diameter

⁽²⁾ Calculated value

⁽³⁾ Actual dispersion in fiber might vary depending on core diameter, refractive index profile and Erbium ion inversion level.

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