



## 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 <sup>(1)</sup>	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 <sup>(2)</sup>	nm	890 ± 90
Dispersion parameter at 1550 nm (nominal) <sup>(3)</sup>	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

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

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

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

nLIGHT continually improves its products to provide outstanding quality and reliability. The information contained herein is subject to change without notice. nLIGHT, Inc. shall not be liable for technical or editorial errors or omissions contained herein. Warranties are set forth in express warranty statements accompanying products. Nothing herein should be constituting an additional warranty. For details, please contact your nLIGHT sales representative.