



Features

- **Direct Nanoparticle Deposition:** Industry leading fiber deposition process
- **New LIEKKI® fiber design for ultrafast, medium power amplifiers:**
Fiber designed for robust, near diffraction limited beam quality
High pump absorption for short application lengths
Tightened PM fiber cladding geometries for better connectivity
- **Reliability:**
Improved composition for long term reliability in power and beam quality
Coating proven to operate up to 150°C and in extreme humidity
- **Compatibility:** nLIGHT passive fibers matched for minimal splice loss.

Applications

- Medium power cladding pumped fiber amplifiers
- Ultrafast lasers for marking and material processing
- IR sources for frequency doubling

Typical Fiber Specifications

Fiber		LIEKKI® Yb800-20/125DC-PM
Optical	Units	
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(21.9)
Cladding Absorption at 920 nm	dB/m	5.1 ± 0.75
Mode Field Diameter at 1060 nm ⁽¹⁾	µm	15.0 ± 1.0
Core Numerical Aperture		0.063 ± 0.004
Cladding Numerical Aperture, ≥		0.48
Core background loss at 1200 nm, ≤	dB/km	25
Birefringence, ≥	1E-04	0.8
Geometrical and mechanical		
Core Diameter (nominal)	µm	20.0 ± 1.5
Core Concentricity Error, ≤	µm	1.0
Cladding Diameter	µm	125 ± 1.0
Cladding Geometry		Round, PANDA
Coating Diameter		245 ± 15
Coating Material		Dual coated low index acrylate
Proof Test, ≥	kpsi	100

⁽¹⁾ Near-field Mode Field Diameter

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.