



Features

- **Direct Nanoparticle Deposition:** Industry leading fiber deposition process
- **New LIEKKI® fiber design for short-pulsed, medium power amplifiers:** Fiber design enables easy and robust operation with near diffraction limited beam quality and minimized reduction of mode area in bent fiber
High pump absorption enables short application lengths while preserving long-term power stability
Tight core NA and geometry tolerances
- **Reliability:** Coating proven to operate up to 150°C and in extreme humidity
- **Compatibility:** nLIGHT passive fibers matched for minimal splice loss.

Applications

- Medium to high peak and average power short-pulsed amplifiers
- Industrial and scientific applications, e.g., materials processing, LIDAR
- IR sources for frequency doubling

Typical Fiber Specifications

Fiber		LIEKKI® Yb900-25/250DC-PM
Optical	Units	
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(9.9)
Cladding Absorption at 920 nm	dB/m	2.3 ± 0.5
Mode Field Diameter at 1060 nm ⁽¹⁾	µm	19.0 ± 1.5
Core Numerical Aperture (<i>real</i> NA)		0.059 ± 0.004
Cladding Numerical Aperture, ≥		0.48
Core background loss at 1200 nm, ≤	dB/km	25
Birefringence, ≥	1E-04	1.6
Geometrical and mechanical		
Core Diameter	µm	25.0 ± 1.5
Core Concentricity Error, ≤	µm	1.0
Cladding Diameter	µm	250 ± 3
Cladding Geometry		Round, PANDA
Coating Diameter		350 ± 15
Coating Material		Dual coated low index acrylate
Proof Test, ≥	kpsi	100

⁽¹⁾ Near-field Mode Field Diameter in bent fiber

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