



Features

- **Direct Nanoparticle Deposition:** Industry leading fiber deposition process
- **New LIEKKI® fiber design for superior performance:**
 Excellent efficiency in $\geq 3\text{kW}$ CW fiber amplifiers
 Efficient TMI suppression at 976nm pumping for powers $\geq 3\text{kW}$
 Near diffraction limited beam quality with large MFD
 Enhanced long-term power stability
- **Reliability:** Coating proven to operate up to 150°C and in extreme humidity
- **Compatibility:** nLIGHT passive fibers matched for minimal splice loss.
- **Support:** Detailed application material available on request.

Applications

- 3 kW-class CW fiber lasers and amplifiers
- Advanced and Directed energy applications
- Industrial applications with requirement for near-diffraction limited beam quality

Specifications for Selected Fiber Parameters

Fiber		LIEKKI® Yb800-22/400DC (HP)
Optical	Units	
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(1.8)
Cladding Absorption at 920 nm	dB/m	0.43 ± 0.05
Mode Field Diameter at 1060 nm ⁽¹⁾	µm	18.0 ± 1.0
Cladding Numerical Aperture, ≥		0.48
Core background loss at 1200 nm, ≤	dB/km	10
Geometrical and mechanical		
Core Diameter (nominal)	µm	[22.5]
Core Concentricity Error, ≤	µm	1.2
Cladding Diameter (flat-to-flat)	µm	400 ± 10
Cladding Geometry		Octagonal
Coating Diameter		500 ± 15
Coating Material		Dual coated low index acrylate
Proof Test, ≥	kpsi	100

⁽¹⁾ Near-field Mode Field Diameter

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