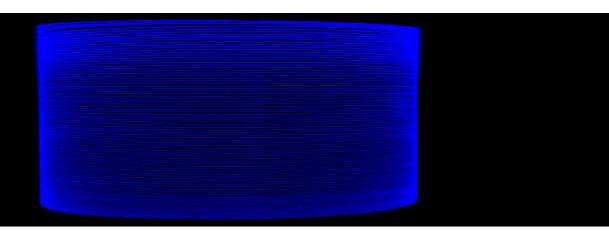


Yb800-20/400DC (HP)

Large Mode Area Double Cladding Ytterbium Doped Fiber



Features

- Direct Nanoparticle Deposition: Industry leading fiber deposition process
- New LIEKKI[®] fiber design for superior performance:
 Excellent efficiency in ≥3kW CW fiber amplifiers
 TMI limit ≥3kW (976nm pumped)
 Near diffraction limited beam quality
 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.

Typical Fiber Specifications

Fiber		LIEKKI® Yb800-20/400DC (HP)
Optical	Units	
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(1.7)
Cladding Absorption at 920 nm	dB/m	0.40 ± 0.05
Mode Field Diameter at 1060 nm (1)	μm	17.0 ± 1.0
Core Numerical Aperture (realNA)		0.060 ± 0.004
Cladding Numerical Aperture, ≥		0.48
Core background loss at 1200 nm, ≤	dB/km	13
Geometrical and mechanical		
Core Diameter	μm	20.0 ± 1.5
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

Applications

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

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