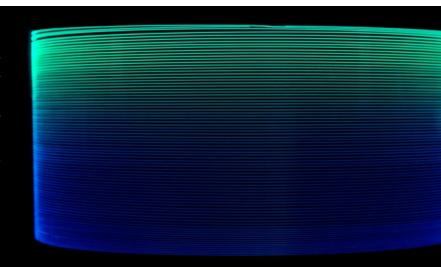


LIEKKI® Yb1200-20/125 fibers are very highly doped fibers with low photodarkening loss ideally suited for compact, medium average power pulsed amplifier applications where large mode area and short fiber length are critical for suppression of nonlinear effects. The highefficiency, low-NA core provides high beam quality.

LIEKKI $^{\$}$ Yb1200-20/125 fibers are available as double-clad (Yb1200-20/125DC) and double-clad polarization maintaining (Yb1200-20/125DC-PM) fibers.



Features

- Industry leading fiber deposition process Direct Nanoparticle Deposition
- realNA most accurate fiber core NA to enable superior predictability of fiber performance and minimal splice loss
- Large, low-NA core for low nonlinearity and high beam quality applications
- Very high pump absorption enabling less than 2 m application lengths
- Low photodarkening loss
- Acrylate coating enables fiber applications in extreme environmental conditions: Proven to operate up to 120°C and in extreme humidity.
- Matching passive fibers available for minimal splice loss

Applications

- Medium average power pulsed fiber amplifiers
- Marking and material processing lasers
- IR source for frequency doubling

Typical Fiber Specifications

Fiber		LIEKKI® Yb1200-20/125DC	LIEKKI® Yb1200-20/125DC-PM
Optical	Units		
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(25.8)	(28)
Cladding Absorption at 920 nm	dB/m	6.0 ± 0.9	6.5 ± 1.1
Mode Field Diameter (1) (nominal)	μm	(15.9)	(15.9)
Core Numerical Aperture (realNA)		0.080 ± 0.005	0.080 ± 0.005
Cladding Numerical Aperture, ≥		0.48	0.48
Core background loss at 1200 nm, ≤	dB/km	25	25
Birefringence, ≥	1E-04	_	0.8
Geometrical and mechanical			
Core Diameter	μm	20.0 ± 1.5	20.0 ± 1.5
Core Concentricity Error, ≤	μm	1.0	1.0
Cladding Diameter (flat-to-flat)	μm	125 ± 2	125 ± 2
Cladding Geometry		Octagonal	Round, PANDA
Coating Diameter		245 ± 15	245 ± 15
Coating Material		Dual coated low index acrylate	Dual coated low index acrylate
Proof Test, ≥	kpsi	100	100

⁽¹⁾ Far-field Mode Field Diameter at 1060nm



^{+358 19 357391 •} fibers@nlight.net • www.nlight.net