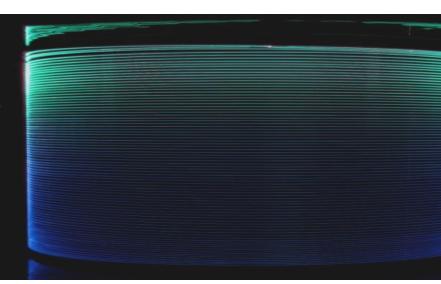


LIEKKI<sup>®</sup> Yb1200-6/125 fibers are very highly doped single mode fibers for low power fiber laser and amplifier applications. The fibers offer excellent single-mode beam quality for 1 μm applications and combine high pump absorption with low photodarkening loss. They are ideal fibers for low-cost marking lasers and pumping sources.

LIEKKI<sup>®</sup> Yb1200-6/125 fibers are available as double cladding (Yb1200-6/125DC) and double cladding polarization maintaining (Yb1200-6/125DC-PM) fibers.



## **Features**

- Industry leading fiber deposition process Direct Nanoparticle Deposition
- Excellent single mode beam quality for 1 μm applications
- · Combining high pump absorption with low photodarkening loss
- · Low intrinsic loss for highest efficiency
- Matching nLIGHT passive fibers available
- Acrylate coating enables fiber applications in extreme environmental conditions: Proven to operate up to 120°C and in extreme humidity.

## **Applications**

- Low power lasers and amplifiers
- Pulsed and CW applications
- · Laser marking
- High brightness pump sources
- IR sources for frequency doubling

## **Typical Fiber Specifications**

Fiber		LIEKKI <sup>®</sup> Yb1200-6/125DC	LIEKKI® Yb1200-6/125DC-PM
Optical	Units		
Mode Field Diameter at 1060 nm <sup>(1)</sup>	μm	7.0 ± 0.5	7.0 ± 0.5
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(2.4)	(2.4)
Cladding Absorption at 920 nm	dB/m	$0.55 \pm 0.1$	0.55 ± 0.1
Core Numerical Aperture (nominal)		0.12	0.12
Cut-off wavelength (2)	nm	860 ± 70	860 ± 70
Cladding Numerical Aperture, ≥		0.48	0.48
Core background loss at 1200 nm, ≤	dB/km	15	25
Birefringence, ≥	1E-04	-	2.0
Geometrical and mechanical			
Core Concentricity Error, ≤	μ <b>m</b>	1.0	1.0
Cladding Diameter (flat-to-flat)	μ <b>m</b>	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

<sup>(1)</sup> Far-field Mode Field Diameter



<sup>(2)</sup> Calculated value

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