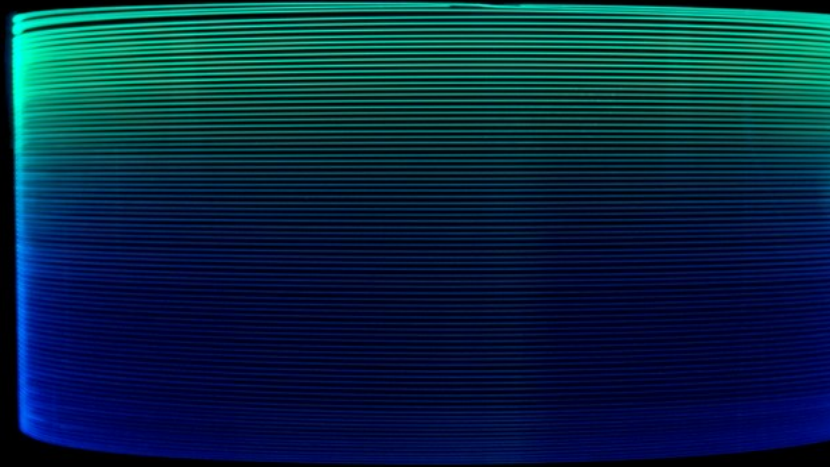


LIEKKI® Yb1200-12/250DC fiber is a highly doped fiber with low photodarkening loss for medium power fiber laser and amplifier applications. The fiber is designed to easily enable single-mode operation and meet highest beam quality demands. Combining a large, low-NA core and high absorption make this fiber ideal for compact fiber laser resonators with up to 800 W CW output power.



Features

- Industry leading fiber deposition process — Direct Nanoparticle Deposition
- *rea/NA* — 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
- Combining high pump absorption with low photodarkening loss
- Low intrinsic loss for highest efficiency
- 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 power lasers and amplifiers
- CW lasers up to 800 W
- Industrial, medical and scientific applications

Typical Fiber Specifications

Fiber		LIEKKI® Yb1200-12/250DC
Optical	Units	
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(2.6)
Cladding Absorption at 920 nm	dB/m	0.6 ± 0.1
Mode Field Diameter ⁽¹⁾ (nominal)	μm	(11.9)
Core Numerical Aperture (<i>rea/NA</i>)		0.080 ± 0.005
Cladding Numerical Aperture, ≥		0.48
Core background loss at 1200 nm, ≤	dB/km	15
Geometrical and mechanical		
Core Diameter	μm	12.5 ± 1.0
Core Concentricity Error, ≤	μm	1.0
Cladding Diameter (flat-to-flat)	μm	250 ± 5
Cladding Geometry		Octagonal
Coating Diameter		350 ± 15
Coating Material		Dual coated low index acrylate
Proof Test, ≥	kpsi	100

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