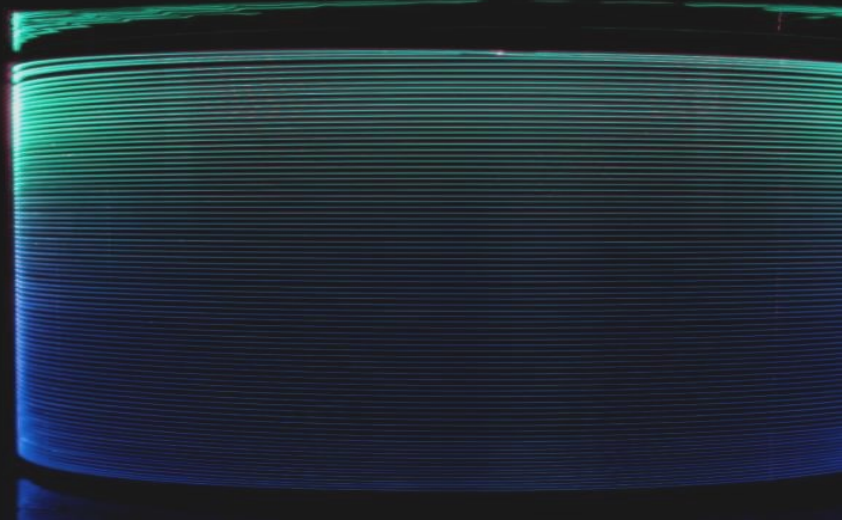


LIEKKI® Yb1200-12/250DC fiber is a very highly doped fiber with low photodarkening loss for medium power fiber laser and amplifier applications. The combination of a large, low-NA core and 250µm diameter cladding makes this fiber ideal for compact medium power fiber laser resonators with high beam quality requirements.



Features

- Industry leading fiber deposition process — Direct Nanoparticle Deposition
- 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
- Proof tested to > 100 kpsi for long-term mechanical reliability
- Acrylate coating enables fiber applications in extreme environmental conditions: Proven to operate up to 120°C and in extreme humidity.
- Matching passive fibers available with optimized design for minimal splice loss

Applications

- Medium power lasers and amplifiers
- Pulsed and CW applications
- 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
Core Numerical Aperture		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