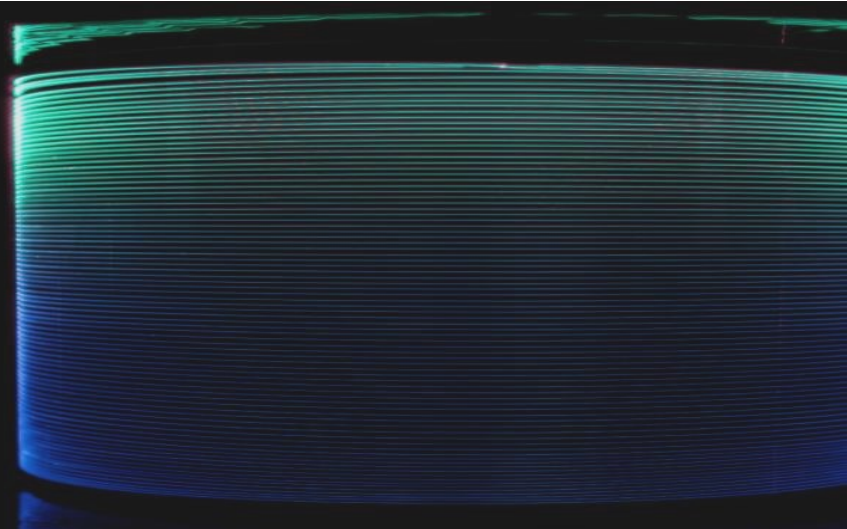


LIEKKI® Yb1200-20/125 fibers are very highly doped fibers with low photodarkening loss ideally suited for compact, medium average power pulsed amplifier applications where large mode area and short fiber length are critical for suppression of nonlinear effects. The high-efficiency, low-NA core provides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