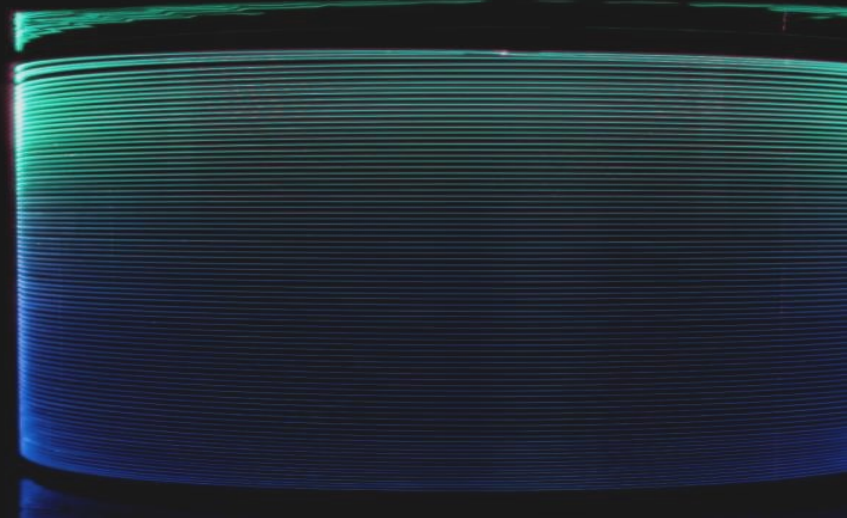


LIEKKI® Yb700-25/250 fibers are medium doped fibers with large core-to-cladding ratio. The fibers feature high pump absorption at an extremely high photodarkening resistivity for enabling short application lengths and long-term reliability. Together with the excellent beam quality, these fibers present the ideal choice for CW or pulsed amplifier designs.

LIEKKI® Yb700-25/250 fibers are available as double-clad (Yb700-25/250DC) and double-clad polarization maintaining (Yb700-25/250DC-PM) fibers.



Features

- Industry leading fiber deposition process — Direct Nanoparticle Deposition
- Large, low-NA core for excellent beam quality
- Very high photodarkening resistivity for long-term reliability
- High pump absorption for compact designs and low nonlinearities
- 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

- High peak and average power pulsed amplifiers with excellent beam quality
- CW amplification
- IR source for frequency doubling
- Materials processing
- LIDAR
- Range finding

Typical Fiber Specifications

Fiber		LIEKKI® Yb700-25/250DC	LIEKKI® Yb700-25/250DC-PM
Optical	Units		
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(6.5)	(6.9)
Cladding Absorption at 920 nm	dB/m	1.5 ± 0.2	1.6 ± 0.2
Core Numerical Aperture		0.070 ± 0.005	0.070 ± 0.005
Cladding Numerical Aperture, ≥		0.48	0.48
Core background loss at 1200 nm, ≤	dB/km	25	25
Birefringence, ≥	1E-04	-	1.4
Geometrical and mechanical			
Core Diameter	µm	25.0 ± 1.5	25.0 ± 1.5
Core Concentricity Error, ≤	µm	1.5	1.5
Cladding Diameter (flat-to-flat)	µm	250 ± 10	250 ± 10
Cladding Geometry		Octagonal	Round, PANDA
Coating Diameter		350 ± 15	350 ± 15
Coating Material		Dual coated low index acrylate	Dual coated low index acrylate
Proof Test, ≥	kpsi	100	100