



Features

- **Direct Nanoparticle Deposition:** Industry leading fiber deposition process
- **rea/NA:** most accurate fiber core NA to enable superior predictability of fiber performance and minimal splice loss
- **Performance:**
Designed for up to 2kW CW fiber lasers (Yb1200-20/400DC (HP))
Large, low-NA core for high beam quality and low nonlinearity
Low intrinsic and photodarkening losses for highest efficiency and reliability
- **Reliability:** Coating proven to operate up to 150°C and in extreme humidity
- **Compatibility:** nLIGHT passive fibers matched for minimal splice loss

Applications

- High average power fiber lasers and amplifiers
- kW-class single mode CW fiber lasers and amplifiers
- Industrial and scientific applications
- IR sources for frequency doubling

Typical Fiber Specifications

Fiber		LIEKKI® Yb1200-20/400DC (HP)	LIEKKI® Yb1200-20/400DC-PM
Optical		Units	
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(2.4)	(2.6)
Cladding Absorption at 920 nm	dB/m	0.55 ± 0.05	0.6 ± 0.1
Core Numerical Aperture (rea/NA)		0.065 ± 0.003	0.065 ± 0.005
Cladding Numerical Aperture, ≥		0.48	0.48
Core background loss at 1200 nm, ≤	dB/km	12	15
Birefringence, ≥	1E-04	-	1.6
Geometrical and mechanical			
Core Diameter	μm	20.0 ± 1.5	20.0 ± 1.5
Core Concentricity Error, ≤	μm	1.2	1.2
Cladding Diameter (flat-to-flat)	μm	400 ± 10	400 ± 5
Cladding Geometry		Octagonal	Round, PANDA
Coating Diameter		520 ± 15	520 ± 15
Coating Material		Dual coated low index acrylate	Dual coated low index acrylate
Proof Test, ≥	kpsi	100	100