



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:**
High pump absorption with low photodarkening loss
Designed for high beam quality applications
- **Reliability:** Coating proven to operate up to 150°C and in extreme humidity
- **Compatibility:** nLIGHT passive fibers matched for minimal splice loss

Applications

- Medium power cladding pumped fiber lasers and pre-amplifiers
- Pulsed and CW applications in industrial, medical and scientific markets
- IR sources for frequency doubling

Typical Fiber Specifications

Fiber		LIEKKI® Yb1200-12/125DC	LIEKKI® Yb1200-12/125DC-PM
Optical		Units	
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(11.2)	(11.2)
Cladding Absorption at 920 nm	dB/m	2.6 ± 0.4	2.6 ± 0.4
Core Numerical Aperture (rea/NA)		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	-	1.6
Geometrical and mechanical			
Core Diameter	µm	12.5 ± 1.0	12.5 ± 1.0
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