



Features

- **Direct Nanoparticle Deposition:** Industry leading fiber deposition process
- **LIEKKI® fiber design for up to 1.5kW CW fiber lasers:**
Core design enables robust single-mode operation and balances highest beam quality requirements and onset of nonlinear effects
Easy fiber handling thanks to 250 µm cladding diameter
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
- **Support:** Detailed application material available on request.

Applications

- Medium to high power CW fiber lasers for powers up to 1.5kW
- Industrial applications

Typical Fiber Specifications

Fiber		LIEKKI® Yb1200-14/250DC
Optical		Units
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(3.2)
Cladding Absorption at 920 nm	dB/m	0.75 ± 0.1
Core Numerical Aperture (<i>rea</i> /NA)		0.070 ± 0.005
Cladding Numerical Aperture, ≥		0.48
Core background loss at 1200 nm, ≤	dB/km	15
Geometrical and mechanical		
Core Diameter	µm	14.0 ± 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