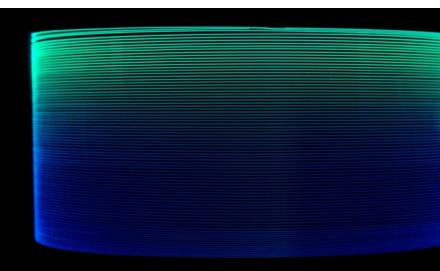


LIEKKI[®] Yb1200-14/250DC fiber is a highly doped fiber with low photodarkening loss suitable for both medium and high power fiber laser applications. The fiber design is optimized to offer a large mode field diameter while still easily enabling single-mode operation to meet highest beam quality demands. The larger core compared to LIEKKI[®] Yb1200-12/250DC fiber extends the application range for compact fiber laser resonators up to 1 kW CW output powers.



Features

- Industry leading fiber deposition process Direct Nanoparticle Deposition
- realNA most accurate fiber core NA to enable superior predictability of fiber performance and minimal splice loss
- Large, low-NA core for low nonlinearity and high beam quality applications
- Combining high pump absorption with low photodarkening loss
- · Low intrinsic loss for highest efficiency
- Acrylate coating enables fiber applications in extreme environmental conditions: Proven to operate up to 120°C and in extreme humidity.
- Matching beam delivery and passive fibers available for minimal splice loss

Applications

- Medium to high power CW lasers up to 1 kW
- Industrial, medical and scientific applications

Typical Fiber Specifications

Fiber		LIEKKI [®] Yb1200-14/250DC	
Optical	Units		
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(3.25)	
Cladding Absorption at 920 nm	dB/m	0.75 ± 0.1	
Mode Field Diameter (1) (nominal)	μm	(13.5)	
Core Numerical Aperture (realNA)		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)	μ m	250 ± 5	
Cladding Geometry		Octagonal	
Coating Diameter		350 ± 15	
Coating Material		Dual coated low index acrylate	
Proof Test, ≥	kpsi	100	

⁽¹⁾ Far-field Mode Field Diameter at 1060nm

