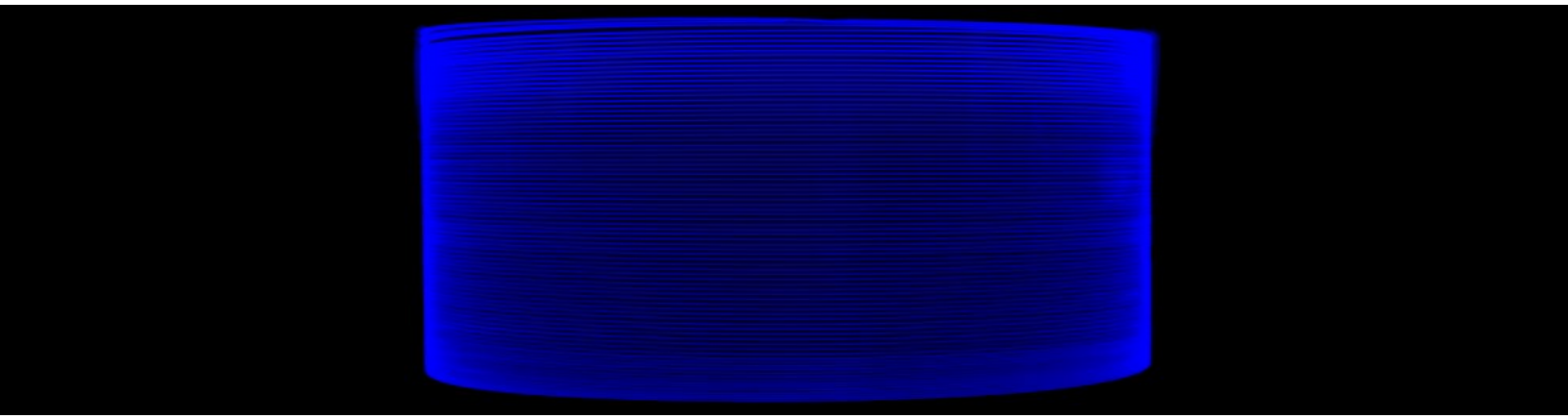
LIEKKI®

Yb800-34/460/530DC

Large Mode Area Triple Cladding Ytterbium Doped Fiber



Features

- **Direct Nanoparticle Deposition**: Industry leading fiber deposition process
- **New LIEKKI® fiber design for high power CW fiber amplifiers**:
  Triple cladding fiber structure for highest reliability
  Very low photodarkening losses for long-term power stability up to 5kW
  Designed for high-efficiency multi-kW CW fiber amplifier laser architecture
- **Reliability**:
  Reduced pump power at coating interface for improved thermal resistance.
  Most experienced high power Yb-doped triple cladding fiber manufacturer
  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

- 2 to 5 kW CW fiber power amplifiers with multimoded beam output
- Industrial applications

Typical Fiber Specifications

Fiber		LIEKKI® Yb800-34/460/530DC
Optical	**Units**	
Peak Inner Cladding Absorption at 976 nm (nominal)	dB/m	(4.3)
Inner Cladding Absorption at 920 nm	dB/m	1.00 ± 0.15
Cladding Absorption at 920 nm (nominal)	dB/m	0.77
Core Numerical Aperture (*real*NA)		0.100 ± 0.010
Inner Cladding Numerical Aperture, ≥		0.200
Cladding Numerical Aperture, ≥		0.48
Core background loss at 1200 nm, ≤	dB/km	15
Geometrical and mechanical		
Core Diameter	µm	34.0 ± 2.5
Inner Cladding Diameter (flat-to-flat)	µm	460 ± 15
Cladding Diameter	µm	530 ± 10
(Inner) Cladding Geometry		(Octagonal) Round
Coating Diameter		650 ± 30
Coating Material		Dual coated low index acrylate
Proof Test, ≥	kpsi	85

+358 19 357391 | fibers@nlight.net | www.nlight.net

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