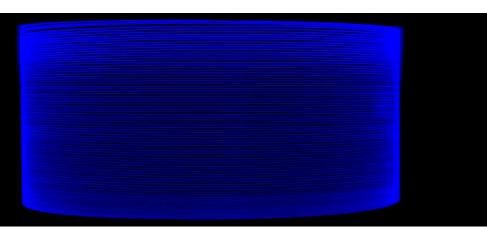


Yb800-22/400DC (HP)

Large Mode Area Double Cladding Ytterbium Doped Fiber



Features

- Direct Nanoparticle Deposition: Industry leading fiber deposition process
- New LIEKKI[®] fiber design for superior performance:
 Excellent efficiency in ≥3kW CW fiber amplifiers
 Efficient TMI suppression at 976nm pumping for powers ≥3kW
 Near diffraction limited beam quality with large MFD
 Enhanced long-term power stability
- 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.

Specifications for Selected Fiber Parameters

Fiber		LIEKKI [®] Yb800-22/400DC (HP)
Optical	Units	
Peak Cladding Absorption at 976 nm (nominal)	dB/m	(1.8)
Cladding Absorption at 920 nm	dB/m	0.43 ± 0.05
Mode Field Diameter at 1060 nm (1)	μm	18.0 ± 1.0
Cladding Numerical Aperture, ≥		0.48
Core background loss at 1200 nm, ≤	dB/km	10
Geometrical and mechanical		
Core Diameter (nominal)	μm	[22.5]
Core Concentricity Error, ≤	μm	1.2
Cladding Diameter (flat-to-flat)	μm	400 ± 10
Cladding Geometry		Octagonal
Coating Diameter		500 ± 15
Coating Diameter Coating Material		500 ± 15 Dual coated low index acrylate

⁽¹⁾ Near-field Mode Field Diameter

Applications

- 3 kW-class CW fiber lasers and amplifiers
- Advanced and Directed energy applications
- Industrial applications with requirement for near-diffraction limited beam quality

nLIGHT continually improves its products to provide outstanding quality and reliability. The information contained herein is subject to change without notice. nLIGHT, Inc. shall not be liable for technical or editorial errors or omissions contained herein. Warranties are set forth in express warranty statements accompanying products. Nothing herein should be constituting an additional warranty. For details, please contact your nLIGHT sales representative.