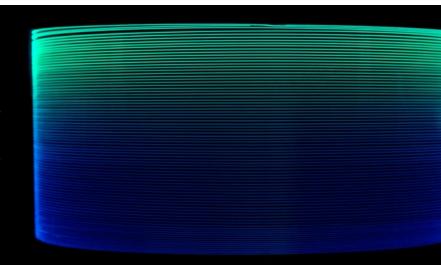


LIEKKI[®] Yb1200-10/125 fibers are very highly doped large mode area fibers for medium power fiber laser and amplifier applications. The combination of high cladding absorption, low photodarkening loss and high beam quality makes them ideal for compact fiber based power amplifiers.

LIEKKI[®] Yb1200-10/125 fibers are available as double-clad (Yb1200-10/125DC) and double-clad polarization maintaining (Yb1200-10/125DC-PM) fibers.



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
- Acrylate coating enables fiber applications in extreme environmental conditions: Proven to operate up to 120°C and in extreme humidity.
- Matching passive fibers available with optimized design for minimal splice loss

Applications

- Medium power amplifiers and lasers
- Pulsed and CW applications
- IR source for frequency doubling
- Industrial, medical and scientific applications

Typical Fiber Specifications

| Fiber | | LIEKKI [®] Yb1200-10/125DC | LIEKKI [®] Yb1200-10/125DC-PM |
|--|------------|-------------------------------------|--|
| Optical | Units | | |
| Peak Cladding Absorption at 976 nm (nominal) | dB/m | (7.4) | (7.4) |
| Cladding Absorption at 920 nm | dB/m | 1.7 ± 0.3 | 1.7 ± 0.3 |
| Mode Field Diameter (1) (nominal) | μm | (11.1) | (11.1) |
| Core Numerical Aperture (realNA) | | 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 | - | 1.4 |
| Geometrical and mechanical | | | |
| Core Diameter | μm | 10.0 ± 1.0 | 10.0 ± 1.0 |
| Core Concentricity Error, ≤ | μm | 1.0 | 1.0 |
| Cladding Diameter (flat-to-flat) | μ m | 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 |

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



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