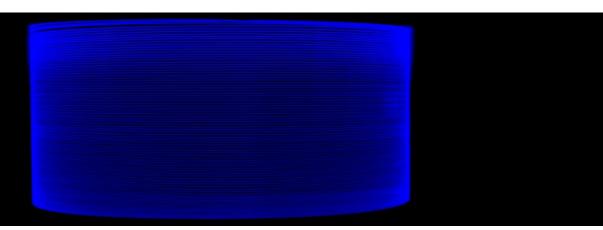


Yb900-25/250DC-PM

Large Mode Area Double Cladding Ytterbium Doped Fiber



Features

- Direct Nanoparticle Deposition: Industry leading fiber deposition process
- New LIEKKI® fiber design for short-pulsed, medium power amplifiers: Fiber design enables easy and robust operation with near diffraction limited beam quality and minimized reduction of mode area in bent fiber High pump absorption enables short application lengths while preserving long-term power stability
 - Tight core NA and geometry tolerances
- **Reliability**: Coating proven to operate up to 150°C and in extreme humidity
- Compatibility: nLIGHT passive fibers matched for minimal splice loss.

Typical Fiber Specifications

| Fiber | | LIEKKI [®] Yb900-25/250DC-PM |
|--|-------|---------------------------------------|
| Optical | Units | |
| Peak Cladding Absorption at 976 nm (nominal) | dB/m | (9.9) |
| Cladding Absorption at 920 nm | dB/m | 2.3 ± 0.5 |
| Mode Field Diameter at 1060 nm (1) | μm | 19.0 ± 1.5 |
| Core Numerical Aperture (realNA) | | 0.059 ± 0.004 |
| Cladding Numerical Aperture, ≥ | | 0.48 |
| Core background loss at 1200 nm, ≤ | dB/km | 25 |
| Birefringence, ≥ | 1E-04 | 1.6 |
| Geometrical and mechanical | | |
| Core Diameter | μm | 25.0 ± 1.5 |
| Core Concentricity Error, ≤ | μm | 1.0 |
| Cladding Diameter | μm | 250 ± 3 |
| Cladding Geometry | | Round, PANDA |
| Coating Diameter | | 350 ± 15 |
| Coating Material | | Dual coated low index acrylate |
| Proof Test, ≥ | kpsi | 100 |

⁽¹⁾ Near-field Mode Field Diameter in bent fiber

Applications

- Medium to high peak and average power short-pulsed amplifi-
- Industrial and scientific applications, e.g., materials processing, LIDAR
- IR sources for frequency doubling

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