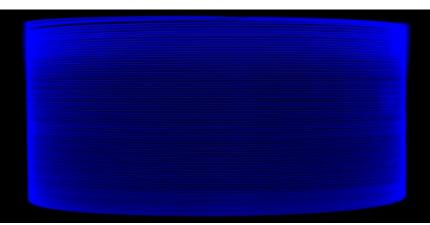


## Yb1200-30/250DC(-PM)

Large Mode Area Double Cladding Ytterbium Doped Fiber



## Features Applications

- Direct Nanoparticle Deposition: Industry leading fiber deposition process
- realNA: most accurate fiber core NA to enable superior predictability of fiber performance and minimal splice loss
- Performance targeted for short-pulsed applications:
  High pump absorption and large, low-NA core enable short application lengths with low nonlinearities and high beam qualities
- Reliability: Coating proven to operate up to 150°C and in extreme humidity
- Compatibility: nLIGHT passive fibers matched for minimal splice loss

- High peak and average power pulsed amplifiers
- Industrial and scientific applications, e.g., materials processing, LIDAR
- IR sources for frequency doubling

## **Typical Fiber Specifications**

| Fiber  |       | LIEKKI <sup>®</sup> Yb1200-30/250DC | LIEKKI® Yb1200-30/250DC-PM     |
|--|-------|-------------------------------------|--------------------------------|
| Optical                                      | Units |                                     |                                |
| Peak Cladding Absorption at 976 nm (nominal) | dB/m  | (14.2)                              | (14.6)                         |
| Cladding Absorption at 920 nm                | dB/m  | 3.3 ± 0.6                           | 3.4 ± 0.6                      |
| Core Numerical Aperture (realNA)             |       | 0.070 ± 0.005                       | 0.062 ± 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    | 30.0 ± 2.0                          | 30.0 ± 2.0                     |
| Core Concentricity Error, ≤                  | μm    | 1.2                                 | 1.2                            |
| Cladding Diameter (flat-to-flat)             | μm    | 250 ± 5                             | 250 ± 5                        |
| Cladding Geometry                            |       | Octagonal                           | Round, PANDA                   |
| Coating Diameter                             |       | 350 ± 15                            | 350 ± 15                       |
| Coating Material                             |       | Dual coated low index acrylate      | Dual coated low index acrylate |
| Proof Test, ≥                                | kpsi  | 100                                 | 100                            |

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