



## Features

- **Direct Nanoparticle Deposition:** Industry leading fiber deposition process
- **rea/NA:** 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

## Applications

- 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® Yb1200-25/250DC        | LIEKKI® Yb1200-25/250DC-PM     |
|--|-------|--------------------------------|--------------------------------|
| <b>Optical</b>                               |       | <b>Units</b>                   |                                |
| Peak Cladding Absorption at 976 nm (nominal) | dB/m  | (9.9)                          | (9.9)                          |
| Cladding Absorption at 920 nm                | dB/m  | 2.3 ± 0.3                      | 2.3 ± 0.3                      |
| Core Numerical Aperture (rea/NA)             |       | 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 | -                              | 1.6                            |
| <b>Geometrical and mechanical</b>            |       |                                |                                |
| Core Diameter                                | µm    | 25.0 ± 1.5                     | 25.0 ± 1.5                     |
| Core Concentricity Error, ≤                  | µm    | 1.0                            | 1.0                            |
| Cladding Diameter (flat-to-flat)             | µm    | 250 ± 5                        | 250 ± 6                        |
| 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                            |