



Features

Applications

- **Compatibility:**
realNA — most accurate fiber core NA for minimal splice loss
Glass cladding diameter is designed to “fit-in” octagonal active fibers
Fiber Bragg Gratings can be written into all large mode area passive fibers
- **Reliability:**
Single cladding fibers feature a telecom grade dual layer high-index acrylate coating
Double cladding fiber coating proven to operate up to 150°C and in extreme humidity

- Fiber-based components for fiber lasers (e.g. pump combiners; FBGs)
- Pigtails for fiber lasers and amplifiers
- All-fiber subassemblies

Typical Fiber Specifications

| LIEKKI® Fiber | | Passive-20/125-PM (Yb800) | Passive-20/125DC-PM (Yb800) |
|--|--------------|---------------------------------|--------------------------------|
| Optical | Units | | |
| Mode Field Diameter at 1060nm ⁽¹⁾ | µm | 15.0 ± 1.0 | |
| Cladding Numerical Aperture, ≥ | | - | 0.48 |
| Core Background Loss at 1200 nm, ≤ dB/km | | 15 | |
| Geometrical and mechanical | | | |
| Birefringence, ≥ | 1E-04 | - | 0.8 |
| Core Concentricity Error, ≤ | µm | 1.0 | |
| Cladding Diameter | µm | 125.0 ± 1 | |
| Cladding Geometry | | Round | Round, Panda |
| Coating Diameter | | 245 ± 15 | |
| Coating Material | | Dual coated high index acrylate | Dual coated low index acrylate |
| Proof Test, ≥ | kpsi | 100 | |

⁽¹⁾ Near-field Mode Field Diameter

Matched Yb-doped LIEKKI® Fiber

Yb800-20/125DC-PM

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.