



Features

- **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

Applications

- 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-6/125 | Passive-6/125DC | Passive-6/125DC-PM |
|--|---------------|---------------------------------|--------------------------------|
| Optical | Units | | |
| Mode Field Diameter at 1060nm ⁽¹⁾ | μm | 7.0 ± 0.5 | |
| Core Numerical Aperture (nominal) | | 0.12 | |
| Cladding Numerical Aperture, ≥ | | - | 0.48 |
| Core Background Loss at 1200 nm, ≤ dB/km | | 5.0 | |
| Geometrical and mechanical | | | |
| Cut-off Wavelength ⁽²⁾ | nm | 880 ± 80 | |
| Birefringence, ≥ | 1E-04 | - | 2.0 |
| Core Concentricity Error, ≤ | μm | 1.0 | |
| Cladding Diameter | μm | 125 ± 2 | |
| 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

⁽²⁾ Calculated value

Matched Yb-doped LIEKKI® Fiber

| Yb300-6/125 | Yb300-6/125-PM | Yb1200-6/125DC | Yb1200-6/125DC-PM |
|-------------|----------------|----------------|-------------------|
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