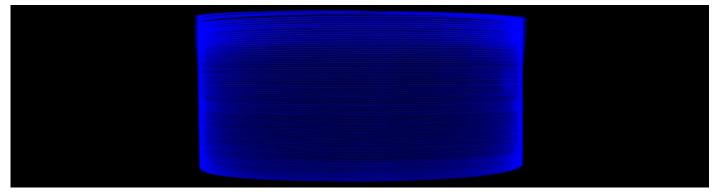
LIEKKI[®]

Large Mode Area Passive-20/125 Fibers



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 $150^\circ\mathrm{C}$ 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-20/125(-PM)		Passive-20/125DC(-PM)	
Optical	Units				
Core Numerical Aperture		0.080 ± 0.005			
Cladding Numerical Aperture, ≥		- 0.48			18
Core Background Loss at 1200 n	15				
Geometrical and mechan	ical				
Birefringence, ≥	1E-04	- 0.8			
Core Diameter	μm	20.0 ± 1.5			
Core Concentricity Error, ≤	μm	1.0			
Cladding Diameter	μm	125.0 ± 2	125.0 ± 1	125.0 ± 2	125.0 ± 1
Cladding Geometry		Round	Round, Panda	Round	Round, Panda
Coating Diameter		245 ± 15			
Coating Material		Dual coated high index acrylate	Dual coated low index acrylate	Dual coated high index acrylate	Dual coated low index acrylate
Proof Test, ≥	kpsi	100			

Matched Yb-doped LIEKKI[®] Fiber

Yb700-20/125DC

Yb1200-20/125DC

Yb1200-20/125DC-PM

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