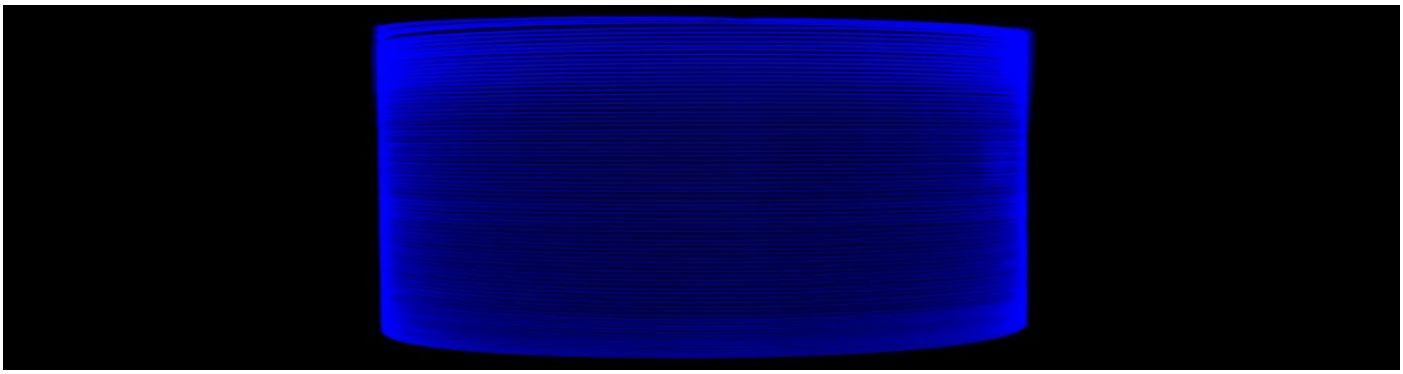
LIEKKI®

Large Mode Area Passive-12/125 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˚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-12/125(-PM)		Passive-12/125DC(-PM)	
Optical	**Units**				
Core Numerical Aperture		0.080 ± 0.005			
Cladding Numerical Aperture, ≥		-		0.48	
Core Background Loss at 1200 nm, ≤	dB/km	5.0			
Geometrical and mechanical					
Birefringence, ≥	1E-04	-	1.6	-	1.6
Core Diameter	µm	12.5 ± 1			
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	
Proof Test, ≥	kpsi	100			

Matched Yb-doped LIEKKI® Fiber

Yb1200-12/125DC	Yb1200-12/125DC-PM

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