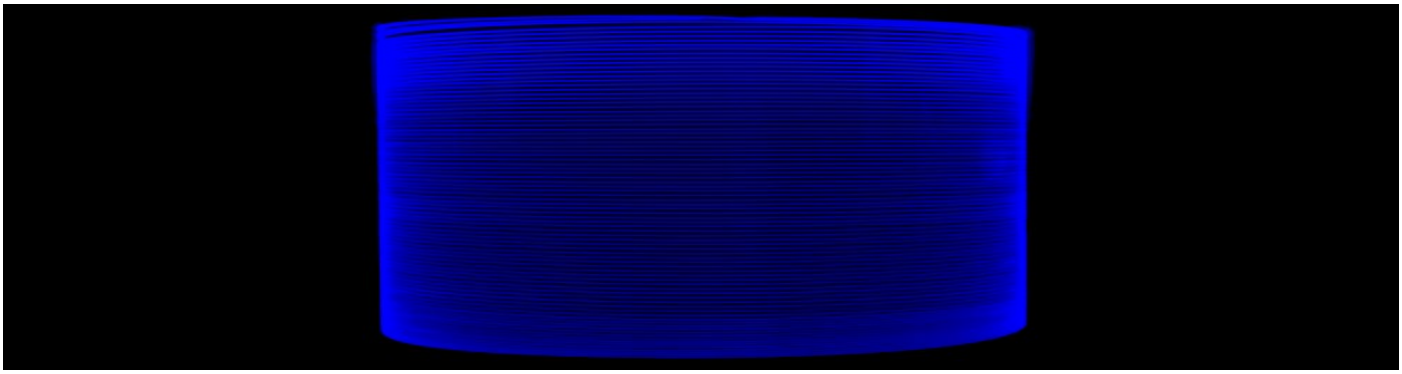
LIEKKI®

Passive-25/250 (Yb900) Fibers

Large Mode Area Passive Fiber



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**:
  Featuring improved beam quality
  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-25/250-PM (Yb900)	Passive-25/250DC-PM (Yb900)
Optical	**Units**		
Mode Field Diameter at 1060nm [1]	µm	19.0 ± 1.5	
Cladding Numerical Aperture, ≥		-	0.48
Core Background Loss at 1200 nm, ≤	dB/km	5.0	
Geometrical and mechanical			
Birefringence, ≥	1E-04	-	1.6
Core Diameter (nominal)	µm	[25]	
Core Concentricity Error, ≤	µm	1.0	
Cladding Diameter	µm	250 ± 5	
Cladding Geometry		Round, Panda	
Coating Diameter		350 ± 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

Yb900-25/250DC-PM

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