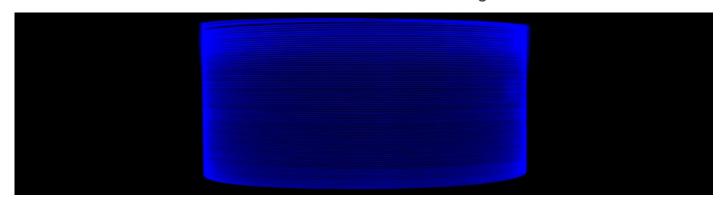


## Passive-6/125 Fibers

Large Mode Area Passive Fiber



**Applications 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

# Fiber-based components

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

## **Typical Fiber Specifications**

LIEKKI <sup>®</sup> Fiber		Passive-6/125	Passive-6/125DC	Passive-6/125DC-PM	
Optical	Units				
Mode Field Diameter at 1060nm (	) µm	7.0 ± 0.5			
Core Numerical Aperture (nomina	1)	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		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			

<sup>(1)</sup> 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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