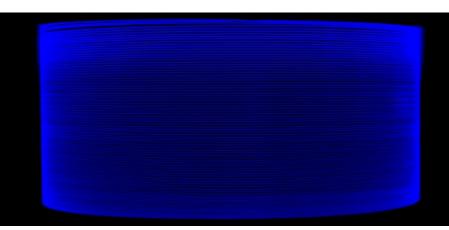


## **High Power Beam Delivery Fibers**



## **Features Applications**

Performance:

All-glass, low-OH silica core with F-doped annulus for multi-kW operation (for fibers with core diameter ≥ 50 µm)

Equal outer diameter ensures easy cabling independent of core size Low internal losses for high efficiency and low heating.

Acrylate coating provides flexible removal of cladding light power, e.g. for stripping of back-reflected light from the cladding. Customized versions available on request

Reliability: Acrylate coating enables fiber applications in extreme environmental conditions: Proven to operate up to 150°C and in extreme humidity.

Laser beam delivery for multikW power levels

## **Typical Fiber Specifications**

Fiber		LIEKKI <sup>®</sup> Passive- 14/360DC	LIEKKI <sup>®</sup> Passive- 50/360DC	LIEKKI <sup>®</sup> Passive- 100/360DC	LIEKKI <sup>®</sup> Passive- 200/360DC	LIEKKI <sup>®</sup> Passive- 300/360DC	
Optical	Units						
Core Numerical Aperture (nominal)		0.070 ± 0.05	0.23 ± 0.01				
Cladding Numerical Aperture, ≥		0.48					
Core background loss at 1200 nm, ≤	dB/km	5.0	5.0 (low-OH)	5.0 (low-OH)	- (low-OH)	- (low-OH)	
Geometrical and mechanical							
Core Diameter	μm	14 ± 1	50 ± 2.5	100 ± 4.0	204 ± 4.0	300 ± 5.0	
Core Concentricity Error, ≤	μm	1.5	2.5	5.0	5.0	5.0	
Inner Cladding diameter (nominal)	μm	-	70	120	235	360	
Cladding Diameter	μm	360 ± 10					
Cladding Geometry		Round					
Coating Diameter		510 ± 25					
Coating Material		Dual coated low index acrylate					
Proof Test, ≥	kpsi	85	85 100				

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