



LIEKKI™ Er60-20/125, Er60-40/250, and Er60-65/400 fibers are large mode area erbium doped fibers suitable for medium power amplifiers and lasers. These fibers are ideally suited for compact, eye-safe devices (1.55 - 1.6 μm region). Both 980 nm and 1480 nm pump diodes may be used for pump sources.

LIEKKI™ Er60-xx/xxx fibers are currently only available as double cladding (Er60-20/125DC, Er60-40/250DC, and Er60-65/400DC) fibers.

## Features

- Good beam quality through low numerical aperture core
- Good efficiency
- Suitable for both 980 nm and 1480 nm pumping
- Pump combiner available for the 20/125 geometry

## Applications

- Eye-safe fiber lasers (CW/pulsed) and amplifiers operating in 1.55 - 1.6 μm region
- LIDAR
- Medical
- Sensing

## Typical Device Performance

Package		LIEKKI™ Er60-20/125DC	LIEKKI™ Er60-40/250DC	LIEKKI™ Er60-65/400DC
<b>Optical</b>				
Cladding Absorption at 1530 nm	dB/m	1.5 ± 0.3	1.5 ± 0.3	1.5 ± 0.3
Cladding Absorption at 980 nm	dB/m	(0.5)	(0.5)	(0.5)
Core Numerical Aperature (nominal)	nm	0.09 ± 0.01	0.09 ± 0.01	0.09 ± 0.01
<b>Geometrical and Mechanical</b>				
Core Diameter		20 ± 2	40 ± 3	65 ± 5
Core Concentricity Error	μm	< 1.5	< 2.5	< 2.5
Cladding Diameter	μm	125 ± 2	250 ± 15	400 ± 15
Cladding Geometry	μm	Octagonal	Octagonal	Octagonal
Coating Diameter	μm	245 ± 15	350 ± 15	500 ± 15
Coating Material		Low Index Acrylate	Low Index Acrylate	Low Index Acrylate
Proof Test	Kpsi	> 100	> 100	> 50

## Proven Performance