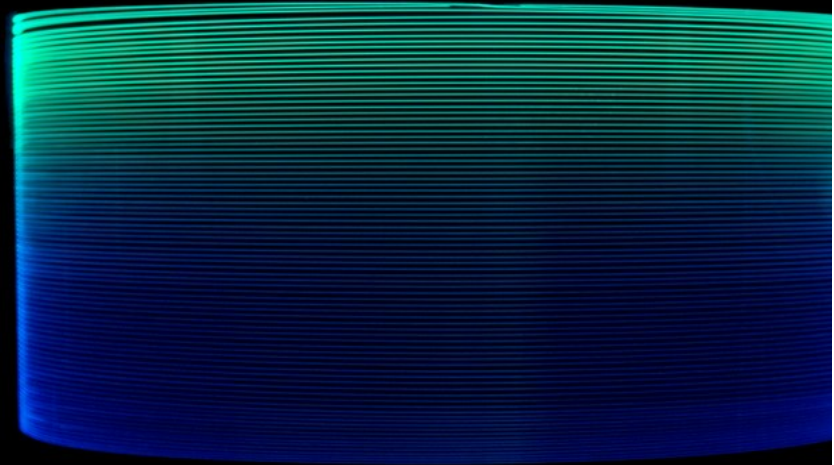


LIEKKI® Er80-8/125 fibers are very highly doped large mode area erbium fibers suitable for medium-power amplifiers and lasers. Good spliceability, high doping and a large core make these fibers ideal for medium peak power pulse amplification in the eye-safe 1.5 μm wavelength region. The high erbium concentration reduces the required application fiber length considerably while providing strong gain and reduced non-linear effects.

LIEKKI® Er80-8/125 fibers are available as single-clad (Er80-8/125) and polarization maintaining (Er80-8/125-PM) fibers.



Features

- Excellent batch consistency of erbium peak absorption and spectral shape
- Ideal for pulse amplification in the 1550 nm range
- Very short fiber lengths (typically less than 2 m) reduces non-linear effects like FWM, SRS and SBS
- Very good temperature behavior
- Suitable for both 980 nm and 1480 nm pumping
- Dual layer UV-cured acrylate coating
- Telecom-like geometry with good spliceability to standard single mode and 1060 pigtail fibers (SMF-28)

Applications

- Short pulse amplifiers
- Medium power, low non-linearity applications
- LIDAR
- Medical
- Sensing

Typical Fiber Specifications

Fiber		LIEKKI® Er80-8/125	LIEKKI® Er80-8/125-PM
Optical	Units		
Mode Field Diameter at 1550 nm	μm	9.5 ± 0.8	9.5 ± 0.8
Peak Core Absorption at 1530 nm	dB/m	80.0 ± 8.0	80.0 ± 16.0
Core Numerical Aperture (nominal)		0.13	0.13
Cut-off Wavelength	nm	1250 ± 150	1250 ± 150
Birefringence, ≥	1E-04		1.0
Geometrical and mechanical			
Core Concentricity Error, ≤	μm	0.7	0.7
Cladding Diameter (flat-to-flat)	μm	125 ± 2	125 ± 2
Cladding Geometry		Round	Round, Panda
Coating Diameter		245 ± 15	245 ± 15
Coating Material		Dual coated high index acrylate	Dual coated high index acrylate
Proof Test, ≥	kpsi	100	100