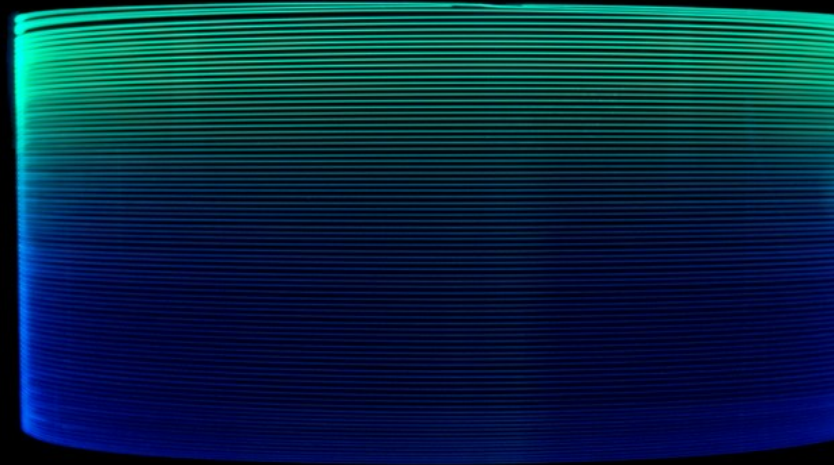


LIEKKI® Er30-4/125 fibers are highly doped erbium fibers designed for C- and L-band amplifiers, and ASE sources. These fibers are available as low cut-off fibers (Er30-4/125) and high cut-off fibers (Er30-4/125HC).

The high cut-off version has demonstrated the highest power conversion efficiency available in L-band: better than 50% for a typical fiber length of 20 m.



Features

- Excellent batch consistency of erbium peak absorption and spectral shape
- Very short application length reduces non-linear effects like FWM, SRS and SBS
- Wide and flat spectrum
- Low polarization mode dispersion, typical value <25 fs/m
- Dual layer UV-cured acrylate coating
- Suitable for both 980 nm and 1480 nm pumping
- Telecom-like geometry with good spliceability to standard single mode fibers
- Telcordia GR-1312-CORE Generic Requirements qualified

Applications

- C- and L-band DWDM, Metro and CATV
- ASE sources

Typical Fiber Specifications

Fiber		LIEKKI® Er30-4/125	LIEKKI® Er30-4/125HC
Optical	Units		
Mode Field Diameter at 1550 nm	μm	6.5 ± 0.5	6.5 ± 0.5
Peak Core Absorption at 1530 nm	dB/m	30.0 ± 3.0	30.0 ± 3.0
Core Numerical Aperture (nominal)		0.2	0.2
Cut-off Wavelength	nm	890 ± 90	1200 ± 200
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
Coating Diameter		245 ± 15	245 ± 15
Coating Material		Dual coated high index acrylate	Dual coated high index acrylate
Proof Test, ≥	kpsi	100	100