



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 fiber lengths reduces non-linear effects like FWM, SRS and SBS
- Wide and flat spectrum
- Low polarization mode dispersion, typical value <25 fs/m
- Low splice loss, LIEKKI™ EasySplice software for splicing parameters
- Suitable for both 980 nm and 1480 nm pumping
- Telcordia GR-1312-CORE Generic Requirements qualified
- Dual layer UV-cured acrylate coating

Applications

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

Proven Performance

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Typical Device Performance

Fiber		LIEKKI™ Er30-4/125	LIEKKI™ Er30-4/125HC
Optical			
Mode Field Diameter at 1550 nm	μm	6.5 ± 0.5	6.5 ± 0.5
Peak Core Absorption at 1530 nm	dB/m	30 ± 3	30 ± 3
Core Numerical Aperture (nominal)		(0.2)	(0.2)
Cut-off Wavelength	nm	800-980	1000 - 1400
Geometrical and Mechanical			
Core Concentricity Error	μm	< 0.7	< 0.7
Cladding Diameter	μm	125 ± 2	125 ± 2
Cladding Geometry	μm	Round	Round
Coating Diameter	μm	245 ± 15	245 ± 15
Coating Material		High Index Acrylate	High Index Acrylate
Proof Test	Kpsi	> 100	> 100

Typical Performance Data

