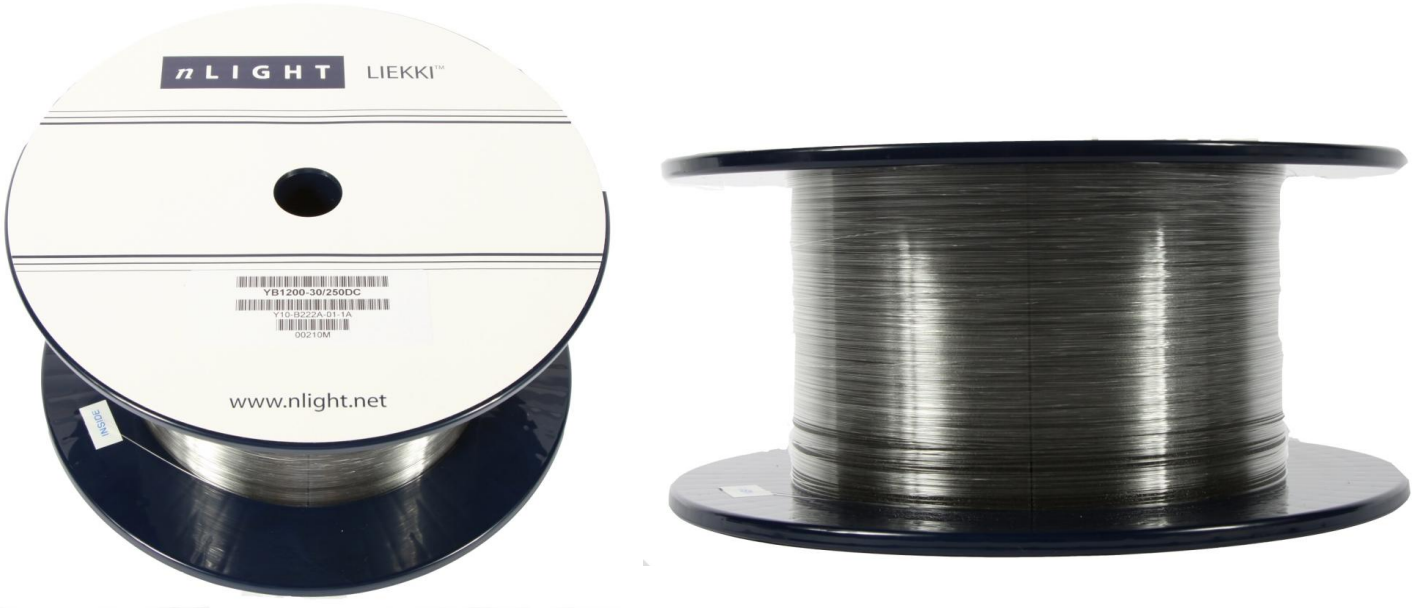
LIEKKI™ Yb1200-4/125 – Single Mode Ytterbium Doped Fiber



LIEKKI™ Yb1200-4/125 fibers are highly doped single mode ytterbium fibers for low-noise, low-nonlinearity preamplifiers and lasers. Their telcom-like geometry makes them compatible with low-cost pump diodes and standard single mode passive fibers. They make an excellent preamplifier in a fiber amplifier chain with double cladding fiber acting as power amplifier.

Features

- Very short application lengths
- Low nonlinear effects
- Low photodarkening
- Telcom-like geometry
- Good spliceability to HI1060 single mode fibers
- Telcom grade dual layer UV-cured acrylate coating

Applications

- Low-power, low-noise preamplifiers
- ASE sources
- CW and pulsed lasers and amplifiers

Proven Performance

Typical Device Performance

Fiber		LIEKKI™ Yb1200-4/125
Optical		
Mode Field Diameter at 1060nm	µm	4.4 ± 0.8
Peak Core Absorption at 976 nm (nominal)	dB/m	(1200)
Cladding Absorption at 920 nm	dB/m	(280)
Core Numerical Aperture (nominal)		0.2
Cut-off Wavelength	nm	1010 ± 70
Geometrical and Mechanical		
Core Concentricity Error	µm	< 0.7
Cladding Diameter	µm	125 ± 2
Cladding Geometry		Round
Coating Diameter	µm	245 ± 15
Cladding Material		High Index Acrylate
Proof Test	Kpsi	> 100

Typical Performance Data