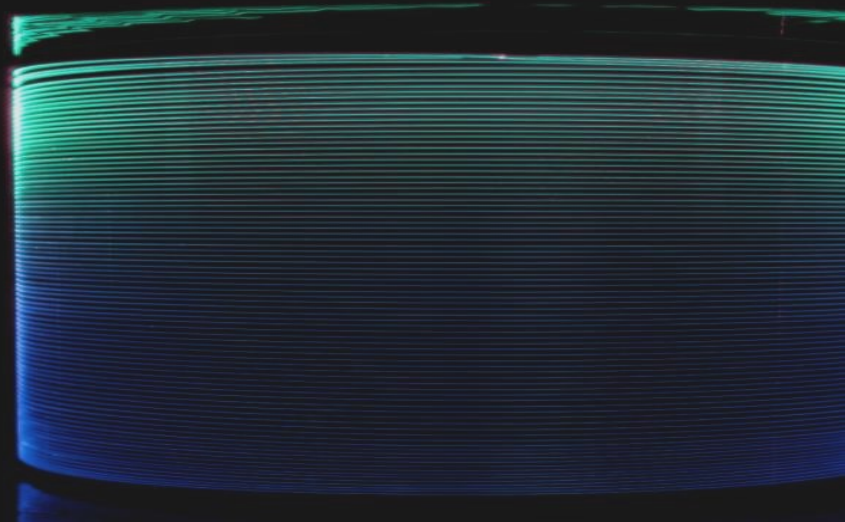


LIEKKI® Yb1200-4/125 fiber is a very highly doped, single mode ytterbium fiber for low-noise, low-nonlinearity preamplifiers and lasers. The telecom-like geometry makes the fiber compatible with low-cost pump diodes and standard single mode passive fibers. The LIEKKI® Yb1200-4/125 fiber is ideal for realizing an excellent preamplifier in a fiber amplifier chain with double cladding fiber acting as power amplifier.



Features

- Industry leading fiber deposition process — Direct Nanoparticle Deposition
- High core absorption to realize very short application lengths with low nonlinear effects
- Proof tested to > 100 kpsi for long-term mechanical reliability
- Telecom-like geometry with good spliceability to standard single mode fibers (HI1060)
- Telecom grade dual layer UV-cured acrylate coating

Applications

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

Typical Fiber Specifications

Fiber		LIEKKI® Yb1200-4/125
Optical	Units	
Mode Field Diameter at 1060 nm	µm	4.4 ± 0.8
Peak Core Absorption at 976 nm (nominal)	dB/m	(1200)
Peak Core Absorption at 920 nm	dB/m	280 ± 50
Core Numerical Aperture (nominal)		0.2
Cut-off Wavelength	nm	1010 ± 70
Geometrical and mechanical		
Core Concentricity Error, ≤	µm	0.7
Cladding Diameter (flat-to-flat)	µm	125 ± 2
Cladding Geometry		Round
Coating Diameter		245 ± 15
Coating Material		Dual coated high index acrylate
Proof Test, ≥	kpsi	100