

Yb FIBERS FOR ULTRAFAST LASERS

INO offers a wide range of large mode area (LMA) ytterbium-doped optical fibers. The exceptional beam quality of our fibers is well adapted for every amplification stage.

	Yb401-PM	Yb-10/125-1.6-PM	Yb-15/125-2.7-PM	Yb-35/250-2.5-PM	Yb-35/250-2.0-PM
Optical Cladding	Single	Multiple	Double	Multiple	Multiple
Core Diameter	5 μm	10 μm	15 μm	35 μm	35 μm
Cladding Diameter	125 μm	125 μm	125 μm	250 μm	250 μm
Core NA	0.14	0.08	0.08	0.07	0.05
Absorption at 915 nm	140 dB/m	1.6 dB/m	2.7 dB/m	2.5 dB/m	2.0 dB/m
Coiling Diameter			$\geq 6 \text{ cm}$	$\geq 14 \text{ cm}$	$\geq 25 \text{ cm}$
	<ul style="list-style-type: none"> Well adapted for low power lasers and amplifiers Low photodarkening core chemistry 		<ul style="list-style-type: none"> High absorption Near-diffraction limited output Low photo-darkening core chemistry 	<ul style="list-style-type: none"> Design for output M^2 lower than 1.15 Low photodarkening core chemistry Confined core for selective gain amplification Increased differential bending losses Depressed cladding design for enhanced differential bending losses 	

Yb-35/250-56/400-2.2-T0.7-PM

TAPERED FIBER

Multiple Optical Cladding

Input: 35/250 μm

Output : 56/400 μm

Core NA: 0.07

Absorption at 915 nm:
2.2 dB/m

Coiling Diameter:
20 \rightarrow 40 cm

- Designed for output M^2 lower than 1.2
- Large core diameter
- Low photodarkening
- High birefringence
- Confined core for selective gain amplification
- Depressed cladding design for enhanced differential bending losses

Custom optical fiber also available. Contact us for more details.

Contact

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