



Yb FIBERS FOR ULTRAFAST LASERS

SOLUTION OVERVIEW

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.

	OPTICAL FIBER				TAPERED FIBER
	Yb401-PM	Yb-10/125-1.6-PM	Yb-15/125-2.7-PM	Yb-35/250-2.5-PM	Yb-35/250-56/400-2.2-T0.7-PM
Optical cladding	Single	Multiple	Double	Multiple	Multiple Optical Cladding
Core diameter	5 µm	10 µm	15 µm	35 µm	Input: 35/250 µm
Cladding diameter	125 µm	125 µm	125 µm	250 µm	Output : 56/400 µm
Core NA	0.14	0.08	0.08	0.07	Core NA: 0.07
Absorption @ 915 nm	140 dB/m	1.6 dB/m	2.7 dB/m	2.5 dB/m	Absorption at 915 nm: 2.2 dB/m
Coiling diameter	-	-	≥ 6 cm	≥ 14 cm	Coiling Diameter: 20 → 40 cm
Features	<ul style="list-style-type: none"> Adapted for low power lasers and amplifiers Low photo-darkening core chemistry 	<ul style="list-style-type: none"> Adapted for low power lasers and amplifiers Low photodarkening core chemistry 	<ul style="list-style-type: none"> Low photodarkening core chemistry High absorption Near-diffraction limited output 	<ul style="list-style-type: none"> Design for output M² 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 	<ul style="list-style-type: none"> Designed for output M² 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

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