



Yb FIBERS FOR ULTRAFAST LASERS

SOLUTION OVERVIEW

INO offers a wide range of ytterbium-doped polarization-maintaining optical fibers, featuring exceptional beam quality and excellent photodarkening resistance. From small core single-clad to large mode area multi-clad fibers, there is a FastFBR for any amplification stage.

	OPTICAL FIBER					NEW!	TAPERED FIBER
	Yb401-PM	Yb-10/125-1.6-PM	Yb-15/125-2.7-PM	Yb-35/250-2.5-PM	Yb-40/250-3.0-PM	Yb-40/250-3.0-PM	Yb-35/250-56/400-2.2-T0.7-PM
Optical cladding	Single	Multiple	Double	Multiple	Multiple	Multiple	Multiple
Core diameter	5 μm	10 μm	15 μm	35 μm	40 μm	40 μm	Input: 35/250 μm
Cladding diameter	125 μm	125 μm	125 μm	250 μm	250 μm	250 μm	Output: 56/400 μm
Core NA	0.14	0.08	0.08	0.07	0.07	0.07	Core NA: 0.07
Absorption @915nm	140 dB/m	1.6 dB/m	2.7 dB/m	2.5 dB/m	3.0 dB/m	3.0 dB/m	Absorption @915nm: 2.2 dB/m
Coiling diameter			≥ 6 cm	≥ 14 cm	≥ 18 cm	≥ 18 cm	Coiling diameter: 20 → 40cm
Features	Suitable for low power applications Low photodarkening core chemistry	Suitable for low power applications Low photodarkening core chemistry	Suitable for medium power applications Low photodarkening core chemistry High absorption Near diffraction limited output	M ² < 1.15 Low photodarkening core chemistry Confined core for selective gain amplification Depressed cladding design for enhanced differential bending losses	M ² < 1.20 Low photodarkening core chemistry Confined core for selective gain amplification Depressed cladding design for enhanced differential bending losses	M ² < 1.20 Low photodarkening core chemistry Confined core for selective gain amplification Depressed cladding design for enhanced differential bending losses	M ² < 1.20 Low photodarkening core chemistry Confined core for selective gain amplification Depressed cladding design for enhanced differential bending losses

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