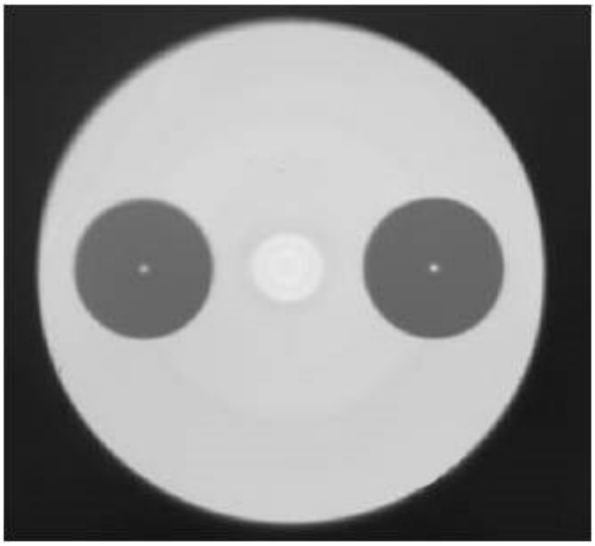
Yb-MCOF-35/250-07-2.5-PM

PM Yb-Doped Large Mode Area Fiber

The Yb-MCOF-35/250-PM fibers are designed for M^2 lower than 1.15 making it the perfect choice for applications requiring superior beam quality. Our fiber design features a confined core for selective gain amplification and multi-layer cladding for superior suppression of higher order modes.



OPTICAL PROPERTIES	
Core NA	0.07 ± 0.01
Cladding NA	> 0.47
Pump guide absorption @ 915 nm	2.5 ± 0.5 dB/m
Nominal pump guide absorption @ 975 nm	10.0 dB/m
Birefringence	≥ 1.4×10^{-4}
Beam quality factor M^2	< 1.15
PHYSICAL PROPERTIES	
Optical cladding	Multi
Core diameter	35.0 ± 3.0 µm
Silica cladding diameter	250.0 ± 5.0 µm
Coating diameter	390.0 ± 20.0 µm
Cladding geometry	Round
Screen proof tested	≥ 100 kpsi
Recommended coiling diameter	≥ 14 cm
Confined core	Yes
Depressed cladding	Yes

FEATURES

- Designed for output M^2 lower than 1.15
- Large core diameter of 35 µm
- Low photodarkening
- High birefringence
- Confined core for selective gain amplification
- Increased differential bending losses
- Designed to amplify narrow linewidth seed lasers operated in pulsed mode

TYPICAL APPLICATIONS

- Material processing
- Frequency conversion
- Biophotonics
- Range finding

Yb-MCOF-35/250-07-2.5-PM

PM Yb-Doped Large Mode Area Fiber

3 versions of this fiber are available. Please refer to the table below for specifications comparison.

OPTICAL PROPERTIES	Yb-MCOF-35/250-07-0.9-PM	Yb-MCOF-35/250-07-2.5-PM	Yb-MCOF-35/250-05-2.0-PM
Core NA	**0.07 ± 0.01**		**0.05 ± 0.01**
Cladding NA	> 0.47		
Pump guide absorption @ 915 nm	**0.9 ± 0.1 dB/m**	**2.5 ± 0.5 dB/m**	**2.0 ± 0.4 dB/m**
Nominal pump guide absorption @ 975 nm	**4.0 dB/m**	**10.0 dB/m**	**8.0 dB/m**
Birefringence	≥ 1.4×10^{-4}		
Beam quality factor M^2	< 1.15		
PHYSICAL PROPERTIES	**Yb-MCOF-35/250-07-0.9-PM**	**Yb-MCOF-35/250-07-2.5-PM**	**Yb-MCOF-35/250-05-2.0-PM**
Optical cladding	Multi		
Core diameter	35.0 ± 3.0 µm		
Silica cladding diameter	250.0 ± 5.0 µm		
Coating diameter	390.0 ± 10.0 µm		
Cladding geometry	Round		
Screen proof tested	≥ 100 kpsi		
Recommended coiling diameter	**≥ 12 cm**	**≥ 14 cm**	**≥ 25 cm**
Confined core	Yes		
Depressed cladding	Yes		

INO
2740 Einstein Street, Québec City, Québec, G1P 4S4 Canada
418-657-7006 / 1-866-657-7406
www.ino.ca / info@ino.ca