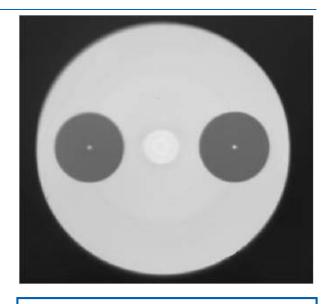


# Yb-MCOF-35/250-07-0.9-PM

### Yb-doped large mode area PM fiber

The Yb-MCOF-35/250-PM fibers are designed for M² 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	0.9 ± 0.1 dB/m		
Nominal pump guide absorption @ 975 nm	4 dB/m		
Birefringence	≥ 1.4 x 10 <sup>-4</sup>		
Beam quality factor M <sup>2</sup>	< 1.15		
PHYSICAL PROPERTIES			
Optical cladding	Multi		
Core diameter	35 ± 3 μm		
Silica cladding diameter	250 ± 5 μm		
Coating diameter	390 ± 20 μm		
Cladding geometry	Round		
Screen proof tested	≥ 100 kpsi		
Recommended coiling diameter	≥ 12 cm		
Confined core	Yes		
Depressed cladding	Yes		



### **FEATURES**

- Designed for output M<sup>2</sup> lower than 1.15
- Large core diameter of 35 μm
- · Low photodarkening
- · High birefringence
- Confined core for selective gain amplification
- Increased differential bending losses

#### TYPICAL APPLICATIONS

- Material processing
- Frequency conversion
- Biophotonics
- Range finding



# Yb-MCOF-35/250-07-0.9-PM

## Yb-doped large mode area PM 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 dB/m	10 dB/m	8 dB/m
Birefringence	≥ 1.4 x 10 <sup>-4</sup>		
Beam quality factor M <sup>2</sup>	< 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 ± 3 μm		
Silica cladding diameter	250 ± 5 μm		
Coating diameter	390 ± 20 μm		
Cladding geometry	Round		
Screen proof tested	≥ 100 kpsi		
Recommended coiling diameter	≥ 12 cm	≥ 14 cm	≥ <b>25</b> cm
Confined core	Yes		
Depressed cladding	Yes		