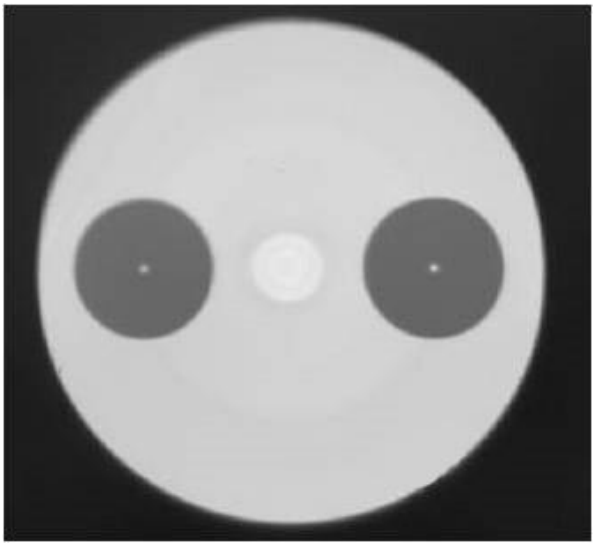
Yb-MCOF-35/250-07-2.5-PM

Yb-doped large mode area PM 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 dB/m
Birefringence	≥ 1.4×10^{-4}
Beam quality factor M^2	< 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	≥ 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

TYPICAL APPLICATIONS

- Material processing
- Frequency conversion
- Biophotonics
- Range finding

MKT-2020-VSI-03

Yb-MCOF-35/250-07-2.5-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	≥ 1.4×10^{-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 ± 3 µm		
Silica cladding diameter	250 ± 5 µm		
Coating diameter	390 ± 10 µm		
Cladding geometry	Round		
Screen proof tested	≥ 100 kpsi		
Recommended coiling diameter	**≥ 12 cm**	**≥ 14 cm**	**≥ 25 cm**
Confined core	Yes		
Depressed cladding	Yes		

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