



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

Yb-DOPED LARGE MODE AREA PM FIBER

SOLUTION OVERVIEW

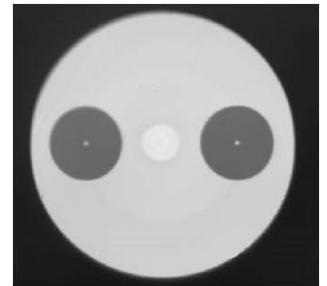
The Yb-MCOF-35/250-PM fibers are designed for M^2 lower than 1.15, making it the perfect choice for applications requiring superior beam quality. Our fiber design features a confined core for selective gain amplification and multi-layer cladding for superior suppression of higher order modes.

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
- Material processing



MAIN SPECIFICATIONS

OPTICAL PROPERTIES	
Core NA	0.07 \pm 0.01
Cladding NA	> 0.47
Pump guide absorption @ 915 nm	2.5 \pm 0.5 dB/m
Nominal pump guide absorption @ 975 nm	10 dB/m
Birefringence	$\geq 1.4 \times 10^{-4}$
Beam quality factor M^2	< 1.15

PHYSICAL PROPERTIES	
Optical cladding	Multi
Core diameter	35 \pm 3 μm
Silica cladding diameter	250 \pm 5 μm
Coating diameter	390 \pm 20 μm
Cladding geometry	Round
Screen proof tested	≥ 100 kpsi
Recommended coiling diameter	≥ 14 cm
Confined core	Yes
Depressed cladding	Yes

MAIN SPECIFICATIONS CONTINUED

2 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
Core NA	0.07 ± 0.01	0.07 ± 0.01
Cladding NA	>0.47	>0.47
Pump guide absorption @ 915 nm	0.9 ± 0.1 dB/m	2.5 ± 0.5 dB/m
Nominal pump guide absorption @975 nm	4 dB/m	10 dB/m
Birefringence	≥ 1.4 × 10 ⁻⁴	≥ 1.4 × 10 ⁻⁴
Beam quality factor M ²	< 1.15	< 1.15

PHYSICAL PROPERTIES	Yb-MCOF-35/250-07-0.9-PM	Yb-MCOF-35/250-07-2.5-PM
Optical cladding	Multi	Multi
Core diameter	35 ± 3 μm	35 ± 3 μm
Silica cladding diameter	250 ± 5 μm	250 ± 5 μm
Coating diameter	390 ± 10 μm	390 ± 10 μm
Cladding geometry	Round	Round
Screen proof tested	≥ 100 kpsi	≥ 100 kpsi
Recommended coiling diameter	≥ 14 cm	≥ 14 cm
Confined core	Yes	Yes
Depressed cladding	Yes	Yes

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