

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

## Yb-doped large mode area PM fiber



Developed by our key partner INO, the Yb-MCOF-35-250-07-0.9-PM fiber is designed for  $M^2$  lower than 1.15 making it the perfect choice for applications requiring superior beam quality. It features a confined core for selective gain amplification and multi-layer cladding for superior suppression of higher order modes.

### Features & Benefits

- Designed for output  $M^2$  lower than 1.15
- Large core diameter of 35  $\mu\text{m}$
- Low photodarkening
- High birefringence
- Confined core for selective gain amplification
- Increased differential bending losses

### Applications

- Material Processing
- Frequency Conversion
- Biophotonics
- Range finding

### Specifications

#### Optical

Cladding Absorption @ 915 nm (dB/m)	0.9 $\pm$ 0.1
Cladding Absorption @ 975 nm - Nominal (dB/m)	4
Numerical Aperture - Core	0.07 $\pm$ 0.01
Numerical Aperture - Cladding	> 0.47
Birefringence	$\geq 1.4 \times 10^{-4}$
Beam quality factor $M^2$	< 1.15

#### Geometrical & Mechanical

Optical Cladding	Multi
Core Diameter ( $\mu\text{m}$ )	35 $\pm$ 3
Silica Cladding Diameter ( $\mu\text{m}$ )	250 $\pm$ 5
Coating Diameter ( $\mu\text{m}$ )	390 $\pm$ 20
Cladding Geometry	Round
Screen Proof Tested (kpsi)	$\geq 100$
Recommended Coiling Diameter (cm)	$\geq 12$
Confined Core	Yes
Depressed Cladding	Yes