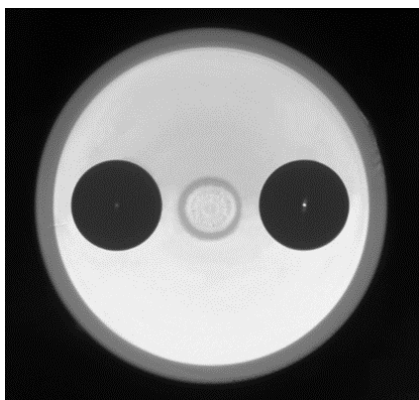




# Yb-MCOF-35/250-56/400-07-2.2-T0.7-PM

## Yb-doped large mode area tapered PM optical fiber

The Yb-MCOF tapered fiber is designed for  $M^2$  lower than 1.2 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 enhanced suppression of higher order modes.



### FEATURES

- Designed for output  $M^2$  lower than 1.2
- Large core diameter
- Low photodarkening
- High birefringence
- Confined core for selective gain amplification

### TYPICAL APPLICATIONS

- High Peak Power Lasers
- Ultrafast Amplifiers
- Frequency Conversion

### OPTICAL PROPERTIES

Core NA	$0.07 \pm 0.01$
Cladding NA	$> 0.47$
Pump guide absorption @ 915 nm	$2.2 \pm 0.5$ dB/m
Nominal pump guide absorption @ 975 nm	8 dB/m
Birefringence	$\geq 1.4 \times 10^{-4}$
Beam quality factor $M^2$	$< 1.2$
<b>PHYSICAL PROPERTIES</b>	
Taper length	$0.7 \pm 0.2$ m
Non-tapered sections length	$> 1.0$ m
Small core diameter	$35 \pm 3$ $\mu$ m
Small cladding diameter	$250 \pm 10$ $\mu$ m
Small coating diameter	$500 \pm 30$ $\mu$ m
Large core diameter	$56 \pm 5$ $\mu$ m
Large cladding diameter	$400 \pm 20$ $\mu$ m
Large coating diameter	$520 \pm 30$ $\mu$ m
Confined core	Yes
Depressed cladding	Yes