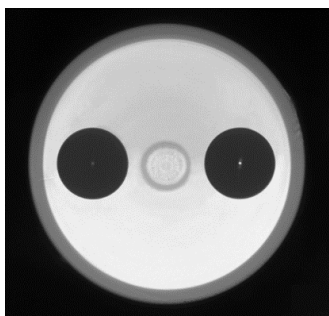




Yb-MCOF-35/250-56/400-07-2.5-T0.8-PM

PM Yb-Doped Large Mode Area Tapered 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
- Designed to amplify narrow linewidth seed lasers operated in pulsed mode

TYPICAL APPLICATIONS

- High Peak Power Lasers
- Ultrafast Amplifiers
- Frequency Conversion

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	$\geq 1.4 \times 10^{-4}$
Beam quality factor M^2	< 1.2
PHYSICAL PROPERTIES	
Taper length	0.8 ± 0.2 m
Non-tapered sections length	> 1.2 m
Small core diameter	35.0 ± 3.0 μ m
Small cladding diameter	250.0 ± 10.0 μ m
Small coating diameter	500.0 ± 30.0 μ m
Large core diameter	56.0 ± 5.0 μ m
Large cladding diameter	400.0 ± 20.0 μ m
Large coating diameter	520.0 ± 30.0 μ m
Confined core	Yes
Depressed cladding	Yes