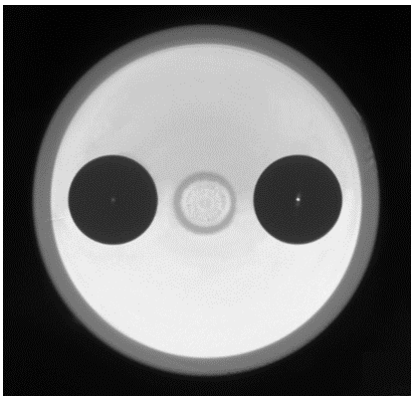
Yb-MCOF-35/250-56/400-07-2.5-T0.8-PM

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 PROPRETIES	
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	< 1.2
PHYSICAL PROPRETIES	
Taper length	0.8 ± 0.2 m
Non-tapered sections length	> 1.0 m
Small core diameter	35 ± 3 µm
Small cladding diameter	250 ± 10 µm
Small coating diameter	500 ± 30 µm
Large core diameter	56 ± 5 µm
Large cladding diameter	400 ± 20 µm
Large coating diameter	520 ± 30 µm
Confined core	Yes
Depressed cladding	Yes

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