# YB 406

## Yb-Doped Single-Clad Fiber

Developed by our key partner INO, the YB 406 Yb-doped single-clad fiber features high QCE values, high efficiency and photodarkening resistance performances. It is designed to suit diverse requirements and applications, such as fiber laser and amplifier design.

## Features & Benefits

- Low background losses
- Photodarkening resistance performances – ensure higher laser system reliability
- High quantum conversion efficiency – lowers pump power requirements, reducing overall system costs.

## Applications

- Seed lasers
- Pulsed fiber lasers and amplifiers
- Medical
- Scientific/Research

## Specifications

### Optical

| | |
|---|---|
| Core Absorption @ 915 nm (dB/m) | 600 ± 100 |
| Core Absorption @ 975 nm (dB/m) | 2400 |
| Mode Field Diameter @ 1060 nm (µm) | 5 ± 1 |
| Cutoff Wavelenght (nm) | 850 ± 50 |
| Numerical Aperture – Core | 0.16 ± 0.02 |

### Geometrical & Mechanical

| | |
|---|---|
| Core Diameter – Nominal (µm) | 4.0 |
| Cladding Diameter (µm) | 125 ± 1 |
| Core/Cladding Concentricity Error (µm) | < 0.8 |
| Coating Diameter (µm) | 250 ± 10 |
| Proof Test (kpsi) | ≥ 100 |

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ISO 9001:2015 certified quality system | RoHS and REACH compliant.
All specifications are subject to change without notice.

Reference: 100-30-0133.R1
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