

# HCF-400-47

## Single-Clad Passive Fiber



The HCF-400-47 passive fiber features high NA and is specifically designed for the fiber coupling of diode lasers. It is also used to manufacture passive components for material processing or spectroscopy applications.

### Features & Benefits

- High numerical aperture (NA)
- Low background losses
- Excellent geometrical properties

### Applications

- Fiber coupling of diode lasers
- Laser beam delivery
- Optical fiber end caps
- Illumination
- Spectroscopy

### Specifications

#### Optical

Numerical Aperture - Cladding	> 0.46
Background Loss @ 1100 nm (dB/km)	< 20

#### Geometrical & Mechanical

Core Diameter (µm)	400 ± 10
Cladding Diameter (µm)	475 ± 20
Coating Diameter (µm)	560 ± 20
Proof Test (kpsi)	≥ 100

#### Environmental

Operating Humidity (%)	5 - 85
Operating Temperature (C°)	0 - 70
Storage Humidity (%)	5 - 85
Storage Temperature (C°)	-40 - 85

ISO 9001:2015 certified quality system | RoHS and REACH compliant.  
All specifications are subject to change without notice. Reference: 101-10-0704.R1

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