

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 \pm 10
Cladding Diameter (μm)	475 \pm 20
Coating Diameter (μm)	560 \pm 20
Proof Test (kpsi)	\geq 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