

DCF-UN-6/125-14

Double-Clad Passive Fiber



The double-clad passive fiber is designed to match the active Yb fiber DCF-YB-6/128S. It allows single-mode operation at 1064 nm. Moreover, this fiber is used for the manufacturing of passive components for the design of fiber lasers and amplifiers.

Features & Benefits

- Low background losses
- Excellent geometrical properties
- Compatible with industry standards
- HI 1060 type double-clad fiber

Applications

- Passive component manufacturing
- Fiber laser system
- LiDAR

Related Products

- [DCF-YB-6/128S](#)
Matched active fiber
- [DCF-YB-7/128-FHA](#)
Matched active fiber
- [DCF-UN-6/125-12](#)
Double-clad passive fiber
- [SCF-UN-6/125-12](#)
Single-clad passive fiber

Specifications

Optical

Numerical Aperture - Core	0.14
Numerical Aperture - Cladding	> 0.45
Mode Field Diameter (µm)	6.20 ± 0.45
Cutoff Wavelength (nm)	< 970
Background Loss @ 1200 nm (dB/km)	< 10

Geometrical & Mechanical

Core Diameter (µm)	5.5
Cladding Diameter (µm)	125 ± 2
Core/Cladding Concentricity Error (µm)	< 0.8
Coating Diameter (µm)	260 ± 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: 101-10-0002.R1