

# DCF-UN-20/125-100

## Double-Clad Passive Fiber



Passive components are usually manufactured with a passive fiber that matches the gain fiber as it greatly reduces splicing losses and maximizes transfer efficiency. The DCF-UN-20/125-100 is designed to perfectly match the DCF-YB 20/128P-FAC and is used for manufacturing the output isolator of high peak power pulsed fiber lasers.

## Features & Benefits

- Low background losses
- Excellent geometrical properties
- Compatible with industry standards

## Applications

- Passive component manufacturing
- Pulsed fiber laser systems

## Related Products

- [DCF-YB-20/128P-FAC](#)  
Matched active fiber
- [DCF-YB-20/128E](#)  
Matched active fiber
- [SCF-UN-20/125-100](#)  
Single-clad active fiber

## Specifications

### Optical

Numerical Aperture - Core	0.100 ± 0.005
Numerical Aperture - Cladding	> 0.45
Background Loss @ 1100 nm (dB/km)	< 10

### Geometrical & Mechanical

Core Diameter (µm)	20 ± 1
Cladding Diameter (µm)	125 ± 2
Core/Cladding Concentricity Error (µm)	< 1.0
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: 101-10-0683.R1