

# DCF-UN-10/125-10

## Double-Clad Passive Fiber



Passive components are usually manufactured with a passive fiber that matches their gain fiber. Doing so, it greatly reduces splicing losses and maximizes transfer efficiency. The DCF-UN-10/125-10 is designed to perfectly match Coractive's DCF-EY-10/128P. It is commonly used for manufacturing passive components in 1550 nm fiber lasers and amplifiers.

### Features & Benefits

- Low background losses
- Excellent geometrical properties
- Strictly single mode at 1550 nm

### Applications

- Passive component manufacturing
- Lidar
- 1550nm fiber lasers and amplifiers

### Related Products

- [DCF-EY-10/128P](#)  
Matched double-clad active fiber

### Specifications

#### Optical

Numerical Aperture - Core	0.10 ± 0.01
Numerical Aperture - Cladding	> 0.45
Background Loss @ 1500 nm (dB/m)	< 10.0
Mode Field Diameter - 1550nm (µm)	12.5 ± 1.0

#### Geometrical & Mechanical

Core Diameter (µm)	10
Cladding Diameter (µm)	125 ± 1
Core/Cladding Concentricity Error (µm)	< 0.8
Coating Diameter (µm)	260 ± 20
Proof Test (kpsi)	≥ 100

#### Environmental

Operating Non-Condensing Humidity (%)	5 - 85
Operating Temperature (C°)	0 - 70
Storage Non-Condensing 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: 101-10-1006.R1

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