

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 |