

DCF-UN-20/125-080

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-20/125-080 is designed to perfectly match Coractive's DCF-YB-20/128E and other commercially available active fibers. It is commonly used for manufacturing passive components such as pump combiners and output isolators 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-20/128E](#)
Matched active fiber
- [YB-20/125E-PM](#)
Matched PM active fiber
- [DCF-YB-12/128P-FA](#)
Matched active fiber

Specifications

Optical

Numerical Aperture - Core	0.080 ± 0.005
Numerical Aperture - Cladding	> 0.45
Background Loss @ 1100 nm (dB/km)	< 10.0

Geometrical & Mechanical

Core Diameter (µm)	20.0 ± 1.0
Cladding Diameter (µm)	125 ± 1
Core/Cladding Concentricity Error (µm)	< 1.5
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