

DCF-UN-20/125-060

Double-Clad Passive Fiber



The DCF-UN-20/125-060 features low background losses and is used for manufacturing passive components such as pump combiners. These components are often part of low-power pulsed fiber laser output isolator design.

Features & Benefits

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

Applications

- Passive component manufacturing
- Fiber laser systems
- Laser beam delivery

Specifications

Optical

Numerical Aperture - Core	0.062 ± 0.005
Numerical Aperture - Cladding	> 0.45
Background Loss @ 1200 nm (dB/km)	< 10

Geometrical & Mechanical

Core Diameter (µm)	20 ± 1
Cladding Diameter (µm)	125 ± 2
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