

DCF-UN-20/125-08-PM

Polarization-maintaining double-clad passive fiber



This PM passive fiber is designed to perfectly match Coractive's DCF-YB-20/125E-PM active fiber. It is ideal for manufacturing passive components for the design of pulsed fiber lasers in material processing applications.

Features & Benefits

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

Applications

- Passive component manufacturing
- Pulsed fiber lasers
- Laser cutting and welding
- Medical

Related Products

- [DCF-YB-20/125E-PM](#)
Matched double-clad active fiber

Specifications

Optical

Numerical Aperture - Core	0.080 ± 0.005
Numerical Aperture - Cladding	> 0.45
Background Loss @ 1200 nm (dB/km)	< 30.0
Birefringence	≥ 1.4E-04

Geometrical & Mechanical

Core Diameter (µm)	20.0 ± 2.0
Cladding Diameter (µm)	125 ± 2
Core/Cladding Concentricity Error (µm)	< 2.0
Coating Diameter (µm)	245 ± 15
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