DCF-UN-8/125-14-PM

Polarization-maintaining double-clad passive fiber

This passive polarization-maintaining fiber has an MFD designed to match Coractive's DCF-EY-10/128-PM active fiber. It is ideal for manufacturing passive components used in ultrafast fiber lasers and amplifiers, for applications such as sensing.

Features & Benefits

- Low background losses
- Excellent geometrical properties
- Compatible with industry-standard active fibers

Applications

- Passive component manufacturing
- Telecom
- Ultrafast fiber lasers
- Fiber lasers and amplifiers
- Sensing

Related Products

- DCF-EY-10/128-PM
  Matched PM active fiber
- DCF-EY-10/128
  Matched active fiber
- SCF-UN/125-14-PM
  Single-clad passive fiber

Specifications

Optical

Numerical Aperture – Core	0.14 ± 0.01
Numerical Aperture – Cladding	> 45
Background Loss @ 1550 nm (dB/km)	< 10
Cutoff Wavelength – Nominal (nm)	1425
Mode Field Diameter @ 1550 nm – Nominal (µm)	9.0
Birefringence	≥ 2.2E-04

Geometrical & Mechanical

Core Diameter (µm)	8 ± 1
Cladding Diameter (µm)	125 ± 2
Core/Cladding Concentricity Error (µm)	< 1.5
Coating Diameter (µm)	260 ± 20
Proof Test (kpsi)	≥ 50

Environmental

Operating Humidity (%)	5 - 85
Operating Temperature (C°)	0 - 70
Storage 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: 101-10-0520.R2

4680, Michelet street, Quebec City, Qc, G1P 0B5, Canada | sales@coractive.com | +1 418 845-2466