

Coractive DCF Polarization Maintaining Double Clad Passive Fiber



● Product Description

This polarization-maintaining passive fiber is specifically designed with a better MFD to match the company's DCF-EY-10/128-PM active fiber. It is ideal for making passive components for ultrafast fiber lasers and amplifiers for applications such as sensing.

● Product features

Low loss 、 Excellent geometric performance 、 Compatible with industry-standard active optical fibers



● Part Number

MP-DCF-UN-8/125-14-PM

● Application area

Passive component manufacturing、 Telecommunications、 Ultrafast fiber lasers、 Fiber lasers and amplifiers

● Core parameters

Core Numerical Aperture	Core Diameter	Cladding Diameter
0.14±0.01	8±1um	125±2um

● General Parameters

Technical Parameters:

Optical parameters	
Core Numerical Aperture	0.14 ± 0.01
Cladding Numerical Aperture	>45
Background Loss @ 1550nm (dB/m)	<10
Cutoff Wavelength - Normal (nm)	1425
Mode Field Diameter @ 1550nm-Nominal (μm)	9.0
Birefringence	≥ 2.2E-04
Geometric and mechanical parameters	
Core diameter (μm)	8 ± 1



Cladding diameter (μm)	125 ± 2
Core concentricity error (μm)	< 1.5
Coating diameter (μm)	260 ± 20
Tensile test (kpsi)	≥ 50
Environmental parameters	
Working humidity (%)	5-85
Working temperature ($^{\circ}\text{C}$)	0-70
Storage humidity (%)	5-85
Storage temperature ($^{\circ}\text{C}$)	-40-85