



double clad fiber – DCF1060

DCF1060
960 - 1550 nm



Description

The DCF1060 double-clad fiber features a single mode core and a glass inner cladding, allowing both single mode and multimode light to propagate through the fiber. This fiber is used in couplers DC1060LEB and DC1060LEFA sold at www.thorlabs.com. Those couplers carry a single-mode signal along the DCF legs and the 1st cladding is used to efficiently transfer the multimode signal to a multimode fiber. The DCF1060 is, for example, ideally suited to combine optical coherence tomography (OCT) with fluorescence imaging or spectroscopy, or to perform speckle-free imaging.

Specifications

Geometrical and Mechanical	
Core Diameter	4 μm
Core Concentricity	$\leq 0.75 \mu\text{m}$
1st Cladding Diameter	102 μm
2nd Cladding Diameter	125 μm
Coating Diameter	245 μm
Short-Term Bend Radius	$\geq 12 \text{ mm}$
Long-Term Bend Radius	$\geq 25 \text{ mm}$
Proof Test Level	$\geq 100 \text{ kpsi}$
Optical	
SM Operating Wavelength (Nominal)	960-1550 nm
MM Operating Wavelength (Nominal)	400-1600 nm
Cut-Off Wavelength	$< 960 \text{ nm}$
Core NA (Nominal)	0.19
1st Cladding NA (Nominal)	0.24



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