

Passive Double Clad Fibre

The YOFC passive matched double-clad fibre can realize pump source and signal optical transmission within the 1.5 μ m band. It features a non-polarization-maintaining design suitable for traditional high-power amplifiers, and a panda-type polarization-maintaining design suitable for high-power coherent optical communications.

Features

- Better fibre reliability
- High birefringence
- Low splicing loss

Applications

- Eye-safe (1.5 μ m) optical fibre lasers
- Laser range finding
- Laser radars

Specifications

Fibre type	EYMF 9/125-0.12/250 (DC)	PM EYMF 9/125-0.12/250
Optical specifications		
Operating wavelength (nm)	1530~1625	1530~1625
Core NA	0.12 $\pm$ 0.01	0.12 $\pm$ 0.01
First cladding NA	$\geq$ 0.46	$\geq$ 0.46
Mode field diameter@1550nm (μ m)	10.5 $\pm$ 0.5	10.5 $\pm$ 0.7
Cutoff (nm)	$\leq$ 1500	$\leq$ 1500
Core attenuation@1550nm (dB/km)	$\leq$ 0.5	$\leq$ 2.0
Cladding attenuation@1095nm (dB/km)	$\leq$ 15.0	$\leq$ 15.0
Birefringence	-	$\geq 2.5 \times 10^{-4}$
Geometrical and mechanical specifications		
Core diameter (μ m)	9.0 $\pm$ 1.0	9.0 $\pm$ 1.0
Cladding diameter (μ m)	125.0 $\pm$ 1.0	125.0 $\pm$ 1.0
Coating diameter (μ m)	245.0 $\pm$ 5	245.0 $\pm$ 5
Core/Cladding offset (μ m)	$\leq$ 0.5	$\leq$ 0.5
Cladding non-circularity (%)	$\leq$ 1.0	$\leq$ 1.0
Proof test level (kpsi)	$\geq$ 100	$\geq$ 100
Coating material	Low refractive index acrylate	Low refractive index acrylate
Polarization maintaining structure	-	Panda type
Environmental specifications		
Operating temperature range (°C)	-45 ~ 85 (customizable for 125°C)	-45 ~ 85 (customizable for 125°C)

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