

Polarization-Maintaining Erbium-Ytterbium Co-Doped Fibre

YOFC's polarization-maintaining erbium-ytterbium co-doped fibre has numerous advantages such as excellent polarization-maintaining performance, high pump to signal conversion efficiency, and long-term reliability. It is widely used in polarization-maintaining fibre amplifiers, lidar, and eye-safe laser products.

Features

- Optimized for enhanced optical and mechanical tolerances
- Guarantees long-term reliability
- Maintains polarization stability

Applications

- High-power amplifier
- Industrial/Medical laser systems

Specifications

Fibre type	PM EYDF MM 10/125H	PM EYDF DC 25/300
Optical specifications		
Operating wavelength (nm)	1530~1625	1530~1625
Core NA	0.205 ± 0.015	0.090 ± 0.010
First cladding NA	≥ 0.46	≥ 0.46
Cladding absorption@915nm (dB/m)	3.0 ± 0.5	3.0 ± 0.5
Core absorption@1535nm (dB/m)	100 ± 20	85 ± 15
Cladding attenuation@1095nm (dB/km)	≤ 30	≤ 30
Birefringence	$\geq 1.5 \times 10^{-4}$	$\geq 1.5 \times 10^{-4}$
Geometrical and mechanical specifications		
Core diameter (μm)	10.0 ± 1.0	25.0 ± 2.0
Cladding diameter (μm)	125.0 ± 3.0	300.0 ± 8.0
Core/Cladding offset (μm)	≤ 1.0	≤ 2.0
Coating diameter (μm)	245.0 ± 10.0	450.0 ± 15.0
Proof test level (kpsi)	≥ 100	≥ 100
Coating material	Low Index Acrylate	Low Index Acrylate
Environmental specifications		
Operating temperature (°C)	-40 ~ 85	-40 ~ 85
Standards compliance	ROHS2.0, REACH	ROHS2.0, REACH

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