

Erbium-Ytterbium Co-Doped Fibre

YOFC's erbium-ytterbium co-doped fibre has numerous advantages, including high pump to signal conversion efficiency, low splicing losses, and long-term reliability. It is widely used in in-vehicle lidar systems, high-power optical fibre amplifiers, and eye-safe lasers.

Features

- Delivers robust and reliable operation
- Optimized for enhanced optical and mechanical tolerances
- Guarantees long-term reliability

Applications

- High-power amplifiers
- Medical/Industrial laser systems
- Lidar

Specifications

Fibre type	EYDF DC 6/125	EYDF DC SM 10/125	EYDF DC SM 10/125H	EYDF TC SM 10/125
Optical specifications				
Operating wavelength (nm)	1525~1565	1530~1625	1530~1625	1530~1625
Core NA	0.20±0.02	0.12±0.02	0.12±0.02	0.12±0.02
First cladding NA	≥ 0.46	≥ 0.46	≥ 0.46	≥ 0.46
Cladding absorption@915nm (dB/m)	0.7±0.2	3.0±0.5	3.0±0.5	3.0±0.5
Core absorption@1535nm (dB/m)	50±15	60±15	40±10	60±25
Cladding attenuation@1095nm (dB/km)	≤ 30	≤ 30	≤ 30	≤ 30
Geometrical and mechanical specifications				
Core diameter (μm)	6.0±1.0	10.0±1.0	10.0±1.0	10.0±1.0
Inner cladding diameter (μm)	/	/	/	105.0±5.0
Cladding diameter (Flat-to-Flat) (μm)	125.0±3.0	125.0±3.0	125.0±3.0	125.0±3.0
Core/Cladding offset (μm)	≤1.5	≤ 1.5	≤1.5	≤1.0
Coating diameter (μm)	245.0±10.0	245.0±10.0	245.0±10.0	245.0±10.0
Cladding shape	Octagonal	Octagonal	Octagonal	Round
Proof test level (kpsi)	≥100	≥100	≥100	≥100
Coating material	Low Index Acrylate	Low Index Acrylate	Low Index Acrylate	Low Index Acrylate
Environmental specifications				
Operation temperature (°C)	-40~85	-40~85	-40~85	-40~85
Standards compliance	ROHS2.0, REACH	ROHS2.0, REACH	ROHS2.0, REACH	ROHS2.0, REACH

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