

SPECIALTY OPTICAL FIBER

IXF-2CF-EY-PM-12-130-0.10

Double Clad Polarization-Maintaining Er/Yb Co-Doped Fiber

IXF-2CF-EY fibers are double clad Erbium-Ytterbium co-doped fibers. The core composition has been carefully selected in order to get high efficiency and low 1 μm emission ratio, which are the recognized trade mark of Exail Erbium-Ytterbium co-doped fibers developed over the past 10 years.

PM design of this fiber is Panda type which make it easy to be recognized by splicing machines. Referring to its low core NA, this fiber is singlemode and make it suitable for highest beam quality requirements

Dual coating with low index primary layer.

For easy integration, matching passive fibers are available.



Benefits & Features

- Panda fiber
- Extensive Exail know-how in Er/Yb fibers core composition
- High efficiency & Power Conversion Efficiency
- Low 1 μm emission
- Easy to splice and cleave
- Large Mode Area fiber
- Singlemode operation

Applications

- PM Amplifier
- LIDAR
- Single Longitudinal Mode Amplifier
- Mid Power Amplifier

Related Product

- IXF-2CF-PAS-PM-12-130-0.10

Parameters

Core diameter (μm)	12 \pm 0.5
Cladding diameter (flat/flat) (μm)	125 \pm 3
Cladding shape	Round
Coating diameter (μm)	245 \pm 15
Core NA	0.10 \pm 0.01
Cladding NA	\geq 0.46
Clad absorption @915nm (dB/m)	3.0 \pm 0.5
Clad absorption @976nm* (dB/m)	12 \pm 2
Core absorption @1536nm (dB/m)	65 \pm 10
Multimode background losses (dB/km)	< 50
Birefringence	> 0.3 \cdot 10 ⁻⁴
Core-clad offset (μm)	< 1.0
Proof test level (kpsi)	100

* Calculated from 915 nm absorption value

Comments:

HeNe tested

OTDR tested

Power Conversion Efficiency (PCE) >35% (following XFS/080301ARL procedure)

Exail reserves the right to change, at any time and without notice, the specifications, design, function or form of its products described herein.

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