SPECIALTY OPTICAL FIBER

IXF-2CF-AG-EY-PM-12-105-125-HTC

Double Clad All Glass PM Er/Yb Fiber

IXF-2CF-AG-EY fibers are double clad Erbium-Ytterbium co-doped fibers. The core composition has been carefuly 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.

The All Glass design preserves external coating to be in contact with the pump signal, ensuring a long term operation in critical environment.
PM design of this fiber is Panda type which make it easy to be recognized by splicing machines.

Dual coating with high index index primary layer.
A High Temperature dual layer acrylate Coating (HTC) is used in order to increase the long term operational temperature range up to 125°C making it the ideal solution for severe environments.

Benefits & Features

- All Glass design
- 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
- Singlemode operation
- +125°C long term operational temperature range

Applications

- PM Amplifier
- Harsh Environment Fiber Laser and Amplifier
- LIDAR
- Mid Power Amplifier

PSD-L-Q-E-086 L
IXF-2CF-AG-EY-PM-12-105-125-HTC_edD_11012022

contact.photonics@exail.com | www.exail.com
Europe +33 1 30 08 94 50 | Americas +1 508 745 3487 | APAC +60 11 1623 1698

IXF-2CF-AG-EY-PM-12-105-125-HTC
TECHNICAL SPECIFICATIONS

Parameters

Core diameter (µm)	11.5 ±0.5
Inner cladding diameter (µm)	105 ± 3
Inner cladding shape	Circular
Cladding diameter (µm)	125 ± 3
Outer clad shape	Circular
Core-clad offset (µm)	< 1.0
Coating diameter (µm)	215 ± 15
Coating material	High temperature acrylate coating (long term temperature up to 125°C) High Index primary coating
↕	
Core NA	0.11 ± 0.01
Inner cladding NA	≥ 0.22
MFD @1550nm (typ.) (µm)	11.5
Clad absorption @915nm (dB/m)	3 ± 0.7
Core absorption @1536nm (dB/m)	55 ± 15
Multimode background losses (dB/km)	< 50
Proof test level (kpsi)	100
Birefringence	≥ $0.5.10^{-4}$

Comments:
HeNe multimode tested
Panda type
OTDR tested

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