

SPECIALTY OPTICAL FIBER

IXF-2CF-AG-EY-O-5-125-HTC Series

Double Clad All Glass Er/Yb Co-Doped Fibers

IXF-2CF-AG-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.

The All Glass design preserves external coating to be in contact with the pump signal, ensuring a long term operation in critical environment.

The octagonal shape of the 2nd cladding provides homogeneous pump signal transverse distribution over the multimode guide.

Dual coating with high 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.

For easy integration, matching passive fibers are available.



Benefits & Features

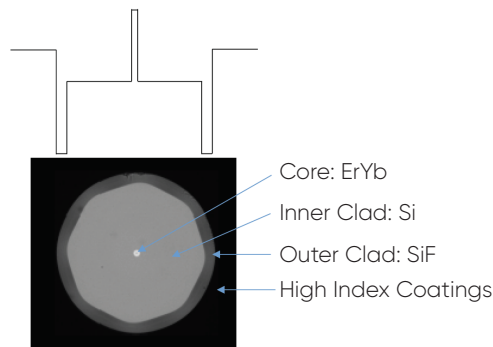
- All Glass design
- Extensive Exail know-how in Er/Yb fibers core composition
- High efficiency, Power Conversion Efficiency
- Low 1 μm emission
- Easy to splice and cleave
- Singlemode operation
- +125°C long term operational temperature range

Applications

- Harsh Environment Fibre Laser and Amplifier
- LIDAR
- High Power Telecom & CATV Amplifier

Related Product

- IXF-2CF-AG-PAS-5-105-125-HTC



All Glass Design : an extra layer of Fluorine doped Silica (SiF) is added between the silica clad and coating

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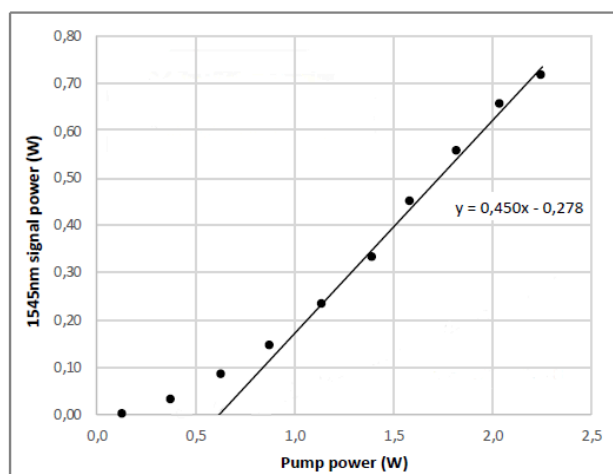
TECHNICAL SPECIFICATIONS

Parameters

Part number	IXF-2CF-AG-EY-O-5-105-125-HTC-Q	IXF-2CF-AG-EY-O-5-105-125-HTC-VU
Core diameter (µm)	5 ± 0.5	
Inner cladding diameter (flat-flat) (µm)	105 ± 3	
Inner cladding shape	Octagonal	
Cladding diameter (µm)	125 ± 1	
Outer cladding 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	0.19 ± 0.02	
Inner cladding NA	≥ 0.22	
MFD @1550nm (µm)	6.4 ± 0.5	
Clad absorption @915nm (dB/m)	1.0 ± 0.15	1.15 ± 0.15
Core absorption @1536nm (dB/m)	65 ± 10	50 ± 10
Multimode background losses (dB/km)	< 50	
Proof test level (kpsi)	100	

Comments:

HeNe multimode tested
OTDR tested



*IXF-2CF-AG-EY-O-5-105-125-HTC in amplifier
Background pump @ 976 nm; Pin = 10 dBm; 4.7 m*

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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