

SPECIALTY OPTICAL FIBER

IXF-2CF-EY-O-13-130-0.09-HPA

Double Clad Er/Yb Co-Doped Fiber

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

Referring to its low core NA, this fiber is singlemode and make it suitable for highest beam quality requirements

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 as well as pump combiners.



Benefits & Features

- 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
- +125°C long term operational temperature range
- Specific core composition to avoid photodarkening effect at high power

Applications

- Harsh Environment Fibre Laser and Amplifier
- High Power Laser & Amplifier
- LIDAR
- Mid Power Amplifier

Related Products

- IXF-2CF-PAS-13-130-009
- IXF-PAS-13-130-009
- IXS-COMB-2-1-1-13-130-A

IXF-2CF-EY-O-13-130-0.09-HPA

TECHNICAL SPECIFICATIONS

Parameters

Core diameter (μm)	13 ± 1
Cladding diameter (flat/flat) (μm)	125 ± 3
Cladding shape	Octagonal
Coating diameter (μm)	210 ± 15
Core NA	0.085 ± 0.01
Cladding NA	≥ 0.46
Clad absorption @915nm (dB/m)	3 ± 0.7
Clad absorption @976nm* (dB/m)	12 ± 3
Core absorption @1536nm (dB/m)	> 50
Multimode background losses (dB/km)	< 20
Core-clad offset (μm)	≤ 1.0
Proof test level (kpsi)	100

* Calculated from 915 nm absorption value

Comments:

HeNe multimode tested

OTDR tested

Power Conversion Efficiency (PCE) >40% (following S108-02 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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