

## SPECIALTY OPTICAL FIBER

# IXF-2CF-EY-O-30-300

## Double Clad 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  $\mu\text{m}$  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 low index primary layer.

For easy integration, matching passive fibers are available.



### Benefits & Features

- Extensive Exail know-how in Er/Yb fibers core composition
- High efficiency & Power Conversion Efficiency
- Low 1  $\mu\text{m}$  emission
- Easy to splice and cleave
- Large Mode Area fiber

### Applications

- High Energy LIDAR
- Mid Power Amplifier

### Related Product

- IXF-2CF-PAS-30-300-0.08

### Parameters

Core diameter ( $\mu\text{m}$ )	30 $\pm$ 1
Cladding diameter (flat/flat) ( $\mu\text{m}$ )	300 $\pm$ 10
Cladding shape	Octagonal
Coating diameter ( $\mu\text{m}$ )	470 $\pm$ 20
Core NA	0.09 $\pm$ 0.01
Cladding NA	$\geq$ 0.46
Clad absorption @915nm (dB/m)	> 3.0
Clad absorption @976nm* (dB/m)	> 12.0
Core absorption @1536nm (dB/m)	> 75
Multimode background losses (dB/km)	< 50
Core-clad offset ( $\mu\text{m}$ )	< 2.0
Proof test level (kpsi)	100

\* Calculated from 915 nm absorption value

Comments:  
*HeNe tested*  
*OTDR tested*

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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