

## SPECIALTY OPTICAL FIBER

# IXF-2CF-EY-PM-12-130-L Series

## Double Clad Polarization-Maintaining Er/Yb Co-Doped Fibers

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.

PM design of this fiber is Panda type which make it easy to be recognized by splicing machines.

Dual coating with low index primary layer

For easy integration, matching passive fibers are available as well as pump combiners



### Benefits & Features

- Panda fibers
- 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

### Applications

- PM Amplifier
- Lidar
- Mid Power Amplifier

### Related Products

- IXF-2CF-PAS-PM-12-130-0.17
- IXF-PAS-PM-12-130-0.17
- IXS-COMB-PM-2-1-1-12-130-A

Version	1	2	3
Core diameter ( $\mu\text{m}$ )		12 $\pm$ 1	
Cladding diameter (flat/flat) ( $\mu\text{m}$ )		125 $\pm$ 3	
Cladding shape		Round	
Coating diameter ( $\mu\text{m}$ )		245 $\pm$ 15	
Core NA		0.19 $\pm$ 0.02	
Cladding NA		$\geq$ 0.46	
Clad absorption @915nm (dB/m)	2.0 - 2.5	2.5 - 3.5	3.0 - 4.5
Clad absorption @976nm* (dB/m)	8 - 10	10 - 14	12 - 18
Core absorption @1536nm (dB/m)	40 - 50	45 - 65	60 - 80
Multimode background losses (dB/km)		< 50	
Core-clad offset ( $\mu\text{m}$ )		< 1.0	
Birefringence		> 1.10 <sup>-4</sup>	
Proof test level (kpsi)		100	

\* Calculated from 915 nm absorption value

#### Comments:

Panda PM design  
HeNe multimode tested  
OTDR tested  
Power Conversion Efficiency (PCE) >35% (following XFS/080301ARL procedure)

### Ordering information

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

Version= 1, 2 or 3 (see table above)

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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