

SPECIALTY OPTICAL FIBER

IXF-2CF-EY-O-10-130

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 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.

Dual coating with low index primary layer



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

Applications

- LIDAR
- High Power Telecom & CATV Amplifier
- Mid Power Amplifier

Parameters

Core diameter (μm)	10 \pm 0.5
Cladding diameter (flat/flat) (μm)	125 \pm 3
Cladding shape	Octagonal
Coating diameter (μm)	245 \pm 15
Core NA	0.19 \pm 0.02
Cladding NA	\geq 0.46
Clad absorption @915nm (dB/m)	2.4 \pm 0.5
Clad absorption @976nm* (dB/m)	10 \pm 2
Core absorption @1536nm (dB/m)	75 \pm 10
Multimode background losses (dB/km)	< 50
Core-clad offset (μm)	< 1.0
Proof test level (kpsi)	100

* Calculated from 915 nm absorption value

Comments:

HeNe tested

OTDR tested

Power Conversion Efficiency (PCE) >40% (following XFS/080301ARL 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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