IXF-2CF-EY-O-6-130-LNF-RAD

Double Clad Er/Yb Co-Doped Fiber

IXF-2CF-EY fibers are double clad Erbium-Ytterbium co-doped fibers. The core composition has been carefuly 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.

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 µm emission
- · Easy to splice and cleave
- · Singlemode operation
- · Radiation Hardening core composition

Applications

- · Space Grade Amplifier
- · High Power Telecom & CATV Amplifier

Related Product

IXF-2CF-PAS-6-130-0.17-RAD

Parameters

Core diameter (µm)	6 ± 0.5
Cladding diameter (flat/flat) (µm)	125 ± 3
Cladding shape	Octagonal
Coating diameter (µm)	245 ± 15
Core NA	0.19 ± 0.02
Cladding NA	≥ 0.46
Clad absorption @915nm (dB/m)	> 0.6
Clad absorption @976nm* (dB/m)	> 2.0
Core absorption @1536nm (dB/m)	> 30
Multimode background losses (dB/km)	< 50
Core-clad offset (µm)	< 1.0
Proof test level (kpsi)	100
RIGV @1560nm (dB/kRad)	< 0.02

^{*} Calculated from 915 nm absorption value

Comments:

HeNe multimode tested OTDR tested

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

RIGV: Radiation Induced Gain Variation

RIGV has been measured in amplifier configuration (1W output power) with 915nm backward pumping (fiber length = 12m)