

SPECIALTY OPTICAL FIBER

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

Double Clad Polarization-Maintaining 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.

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.



Benefits & Features

- Panda fiber
- 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

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

Parameters

Core diameter (μm)	6 ± 0.5
Cladding diameter (flat/flat) (μm)	125 ± 3
Cladding shape	Round
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
Birefringence	$> 1.10^{-4}$

* Calculated from 915 nm absorption value

Comments:

Panda PM Design

HeNe multimode tested

OTDR tested

Power Conversion Efficiency (PCE) $> 35\%$ (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)

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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