

SPECIALTY OPTICAL FIBER

# IXF-2CF-EY-O-6-130-LNF-L Series

## Double Clad 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.

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  $\mu\text{m}$  emission
- Easy to splice and cleave
- Singlemode operation

### Applications

- High Power Telecom & CATV Amplifier

### Related Product

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

# IXF-2CF-EY-O-6-130-LNF-L Series

## TECHNICAL SPECIFICATIONS

### Parameters

| IXF-2CF-EY-O-6-130-LNF-L                        | 1               | 2               |
|---|-----------------|-----------------|
| Core diameter ( $\mu\text{m}$ )                 | $6 \pm 0.5$     | $6.5 \pm 0.5$   |
| Cladding diameter (flat/flat) ( $\mu\text{m}$ ) | $125 \pm 3$     | $125 \pm 3$     |
| Cladding shape                                  | Octagonal       | Octagonal       |
| Coating diameter ( $\mu\text{m}$ )              | $245 \pm 15$    | $245 \pm 15$    |
| Core NA   | $0.19 \pm 0.02$ | $0.19 \pm 0.02$ |
| Cladding NA                                     | $\geq 0.46$     | $\geq 0.46$     |
| Clad absorption @ 915 nm (dB/m)                 | 0.6 - 0.9       | 0.85 - 1.3      |
| Clad absorption @ 976 nm (dB/m) *               | 2.4 - 3.6       | 3.4 - 5.2       |
| Core absorption @ 1536 nm (dB/m)                | 25 - 35         | 35 - 45         |
| Multimode background losses (dB/km)             | < 50            | < 50            |
| Core-clad offset ( $\mu\text{m}$ )              | < 1.0           | < 1.0           |
| Proof test level (kpsi)                         | 100             | 100             |

\* Calculated from 915 nm absorption value

#### Comments:

HeNe multimode tested  
OTDR tested

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

### Ordering information

IXF-2CF-EY-O-6-130-LNF-L  Version = 1 or 2 (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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