

## 12/130 Erbium/Ytterbium-Doped Multimode Double Clad Fibers

Coherent's proprietary rare earth doping technology is used to deliver Er:Yb co-doped fibers with industry leading performance and reliability. These fibers demonstrate high pump conversion efficiency and high power operation without rollover due to 1  $\mu$ m ASE, enabled by the double clad fiber design. The large core of the fiber allows for shorter fiber lengths in high power amplifiers to reduce the impact of non-linear effects.

## **Typical Applications**

and amplifiers

• Eye-safe lasers and amplifiers

• High power pulsed fiber lasers

• LIDAR

## Features & Benefits

- NuCOAT™ fluoroacrylate coating Greater fiber durability in extreme environmental operating & storage conditions
- Large core—Enables shorter fiber length for high power pulsed amplifiers
- Double clad design High power performance and high power conversion efficiency
- All fiber proof tested to > 100 kpsi Critical for ensuring long term reliability when coiling

<b>Optical Specifications</b>	MM-EYDF-12/130-HE	PM-EYDF-12/130-HE
Operating Wavelength Core NA First Cladding NA (5%) Cladding Attenuation Normalized Cross Talk Cladding Absorption	1530 - 1625 nm 0.200 ≥ 0.46 ≤ 30.0 dB/km @ 1095 nm N/A 3.10 ± 0.50 dB/m at 915 nm	1530 - 1625 nm 0.200 ≥ 0.46 ≤ 30.0 dB/km @ 1095 nm ≤ - 25.0 dB at 10 m @ 1300 nm 3.30 ± 0.50 dB/m at 915 nm 50 = 0.50 dB/m = 1500
Core Apporption	$70.0 \pm 15.0 \text{ dB/m hear 1530}$ nm	nm
Geometrical & Mechanical Specifications		
Cladding Diameter Cladding Diameter (flat-to-flat) Core Diameter Coating Diameter Coating Material Prooftest Level	N/A 130.0 ± 3.0 µm 12.0 ± 1.5 µm 215.0 ± 5.0 µm Low Index Acrylate ≥ 100 kpsi (0.7 GN/m²)	130.0 ± 2.0 μm N/A 12.0 ± 1.5 μm 215.0 ± 5.0 μm Low Index Acrylate ≥ 100 kpsi (0.7 GN/m²)



The passive version of each fiber is also available

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Custom developed fiber (FUD) specifications are subject to change without notice. Other configurations such as alternative form factors, optimized cut-off and UV cured color coating may be available. Let us know how Coherent can assist with your requirements.