

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

Nufern'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 µm 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

• LIDAR

- Eye-safe lasers and amplifiers
- High power pulsed fiber lasers and amplifiers
- Features & Benefits

MM-EYDF-12/130-HE

- 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

PM-EYDF-12/130-HE

• All fiber proof tested to > 100 kpsi — Critical for ensuring long term reliability when coiling

Optical Specifications

Operating Wavelength Core NA First Cladding NA (5%) Cladding Attenuation Normalized Cross Talk

Cladding Absorption Core Absorption

Geometrical & Mechanical Specifications

Cladding Diameter Cladding Diameter (flat-to-flat) Core Diameter Coating Diameter Coating Material Prooftest Level

1530 – 1625 nm 0.200 ≥ 0.46 ≤ 30.0 dB/km @ 1095 nm N/A	1530 - 1625 nm 0.200 ≥ 0.46 ≤ 30.0 dB/km @ 1095 nm ≤ - 25.0 dB at 10 m @ 1300 nm
3.10 ± 0.50 dB/m at 915 nm	3.30 ± 0.50 dB/m at 915 nm
70.0 ± 15.0 dB/m near 1530	75.0 ± 15.0 dB/m near 1530
nm	nm

N/A	130.0 ± 2.0 μm
130.0 ± 3.0 μm	N/A
12.0 ± 1.5 μm	12.0 ± 1.5 μm
215.0 ± 5.0 µm	215.0 ± 5.0 μm
Low Index Polymer	Low Index Polymer
≥ 100 kpsi (0.7 GN/m²)	≥ 100 kpsi (0.7 GN/m²)



The passive version of each fiber is also available.

7 Airport Park Road, East Granby, CT 06026 • 860.408.5000 • Toll-free 866.466.0214 • Fax 860.844.0210 E-mail info @ nufern.com • www.nufern.com • Nufern products are manufactured under an ISO 9001:2008 certified quality management system.



Standard specifications and design parameters are listed above. 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 Nufern can assist with your requirements.