DCF-EY-12/130H Erbium/Ytterbium co-doped double-clad fiber



This Erbium/Ytterbium co-doped fiber offers a high doping concentration and efficient energy transfer for operation in the 1.5 μ m region. It also provides high pump absorption while maintaining a good beam quality. These features make this fiber ideal for the design of high peak power eye-safe fiber lasers and amplifiers used in sensing applications such as LiDAR.

Features & Benefits

Specifications

- High doping concentration provides highly efficient energy transfer, minimizing pump power requirements
- High absorption minimizes fiber length and reduces nonlinearities
- Optimized Er/Yb core composition reduces 1 µm parasitic emission

Optical

Cladding Absorption @ 915 nm (dB/m)	3.2 ± 0.6
Core Absorption @ 1535 nm - Nominal (dB/m)	80 ± 25
Numerical Aperture - Core	0.2 ± 0.02
Numerical Aperture - Cladding	> 0.45
Background Loss @ 1200 nm (dB/km)	< 200

Applications

- Eye-safe fiber lasers and amplifiers
- Sensing: LiDAR and spectroscopy

Related Products

- DCF-UN-8/125-14 Matched double-clad fiber
- SCF-UN-8/125-14 Matched single-clad fiber

Geometrical & Mechanical

Core Diameter (µm)	12 ± 1
Cladding Diameter (µm)	130 ± 3
Core/Cladding Concentricity Error (µm)	< 1.5
Cladding Geometry	Octogonal
Coating Diameter (µm)	260 ± 15
Proof Test (kpsi)	≥ 100

ISO 9001:2015 certified quality system | RoHS and REACH compliant. All specifications are subject to change without notice. Reference: 101-10-0841.R1