



DCF-EY-10/128H-G2-ASEF

Erbium/Ytterbium co-doped double-clad fiber

The ASE-Free version of our standard double-clad erbium/ytterbium co-doped fiber is specifically engineered to minimize ASE around 1 μm , effectively suppressing parasitic ytterbium emission while enabling higher output power, stable amplification, and excellent optical efficiency. Optimized for high-power optical amplifier designs, this fiber delivers high output power together with excellent gain flatness across the extended C-band, making it an ideal gain medium for single channel and multichannel applications.

Features & Benefits

- High optical efficiency, minimizing pump power requirements
- High absorption – minimizes fiber length and reduces nonlinearities
- Optimized Er/Yb core composition – high OSNR at 1.5 μm and reduced 1 μm parasitic emission
- Good gain flatness on extended C-band

Applications

- High-power telecom amplifiers
- LiDAR and sensing
- 1.5 μm fiber lasers and optical amplifiers

Related Products

- DCF-UN-8/125-14

Specifications

Optical

Background Loss @1200 nm (dB/km)	≤ 50
Cladding Absorption @ 915 nm (dB/m)	2.4 ± 0.4
Core Absorption @ 1535 nm (dB/m)	110 ± 15
Numerical Aperture - Cladding	Min 0.45
Numerical Aperture - Core	0.2 ± 0.02

Geometrical & Mechanical

Cladding diameter (μm)	128 ± 3
Cladding geometry	Oct.
Coating Diameter (μm)	260 ± 15
Core Diameter (μm)	10 ± 1
Core/Cladding Concentricity Error (μm)	≤ 1
Proof Test (kpsi)	≥ 100

Environmental

Storage Temperature ($^{\circ}\text{C}$)	-40 to $+85$
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