# DCF-EY-6/128

## 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 µm region. As this fiber allows single-mode operation and provides excellent beam quality, it is ideal for the design of low-power optical amplifiers used in various markets such as CATV in telecom or low-power LiDAR.

## Features & Benefits

- Single-mode operation – provides excellent beam quality
- High doping concentration – provides highly efficient energy transfer, minimizing pump power requirements
- Optimized Er/Yb core composition – reduces 1 µm parasitic emission

## Applications

- High-power telecom amplifiers
- Low-power fiber lasers and optical amplifiers
- Sensing: LiDAR

## Related Products

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

## Specifications

### Optical

| | |
|---|---|
| Cladding Absorption @ 915 nm (dB/m) | 0.90 ± 0.15 |
| Core Absorption @ 1535 nm – Nominal (dB/m) | 60 ± 10 |
| Numerical Aperture – Core | 0.2 ± 0.02 |
| Numerical Aperture – Cladding | > 0.45 |
| Cutoff Wavelenght (nm) | 1400 ± 80 |
| Background Loss @ 1200 nm (dB/km) | < 250 |
| Mode Field Diameter (µm) | 6.5 ± 0.8 |

### Geometrical & Mechanical

| | |
|---|---|
| Core Diameter (µm) | 5.5 ± 0.5 |
| Cladding Diameter (µm) | 128 ± 3 |
| Core/Cladding Concentricity Error (µm) | < 1.0 |
| Cladding Geometry | Octogonal |
| Coating Diameter (µm) | 260 ± 20 |
| Proof Test (kpsi) | ≥ 100 |

ISO 9001:2015 certified quality system | RoHS and REACH compliant.
All specifications are subject to change without notice. Reference: 101-10-0574.R1

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