



# DCF-TM-10/130-14

## No-Pedestal single mode TM doped fiber

This single-mode thulium-doped fiber fully complies with telecom standards, making cleaving and splicing straightforward. Its no-pedestal design eliminates parasitic modes and residual multimode propagation. Featuring a high cladding absorption at 790 nm and an optimized core composition to enhance the cross-relaxation process, makes it ideally suited for high-power optical systems demanding superior performance.

### Features & Benefits

- Single-mode operation at 1940 nm.
- No-pedestal design prevents parasitic modes .
- Easy splicing with standard fusion recipes.
- Broad emission bandwidth.
- Optimized core enables efficient two-for-one cross-relaxation at 2 μm.

### Applications

- Eye-safe CW and pulsed fiber lasers and amplifiers
- Medical
- LIDAR
- Telecom
- Spectroscopy
- Low and mid power
- Pump source of Ho-doped fibers

### Related Products

- DCF-UN-10/130-15 Matched double-clad passive fiber

### Specifications

#### Optical

Cladding Absorption @ 790nm (dB/m)	5 ± 1
Numerical Aperture - Cladding	Min 0.45
Numerical Aperture - Core	0.14 ± 0.01

#### Geometrical & Mechanical

Cladding diameter (μm)	128 ± 3
Coating Diameter (μm)	260 ± 15
Core Diameter (μm)	10 ± 1
Core/Cladding Concentricity Error (μm)	≤ 1.5

#### Environmental

Proof Test (kpsi)	≤100
Storage Temperature (°C)	-40 to +85