DCF-UN-8/105/125-14/22-HTA

All-Glass double-clad passive fiber

This double-clad passive fiber is precision matched to our active all-glass er/yb fibers. Featuring an all-glass design and a high-temperature resistant coating, this fiber is made for the rigorous environmental requirements of the automotive industry and other demanding applications. It is ideal for the manufacture of components used in the design of fiber lasers and amplifiers.

Features & Benefits

- High-temperature resistant coating
- All-glass second cladding design - free of low index polymer
- Matched to Coractive active fibers and compatible with industry-standards

Applications

- Eye-safe fiber lasers and amplifiers for LIDAR
- Space communications
- High-power telecom amplifiers
- Industrial and harsh environment laser sensing

Related Products

- DCF-EY-8/105/125-14/22-HTA
  Matched all-glass double-clad active fiber
- SCF-UN-8/125-14
  Matched single-clad passive fiber

Specifications

Optical

Numerical Aperture – Core (Typical)	0.14
Numerical Aperture – Cladding (Typical)	0.23 ± 0.01
Cutoff Wavelength (nm)	1400 ± 110
Mode Field Diameter @ 1550 nm (µm)	9.2 ± 1.1

Geometrical & Mechanical

Core Diameter (Typical) (µm)	7.5
Cladding Diameter (µm)	104 ± 2
Outer Cladding Diameter (µm)	125 ± 2
Core/Cladding Concentricity Error (µm)	≤ 0.8
Cladding Geometry	Octogonal
Coating Diameter (µm)	245 ± 15
Proof Test (kpsi)	≥ 100

Environmental

Operating Non-Condensing Humidity (%)	5 – 85
Operating Temperature (˚C)	0 to +150
Storage Non-Condensing Humidity (%)	5 – 85
Storage Temperature (˚C)	-40 to +150