

DCF-UN-50/70/250-15

Beam Delivery Fiber



With triple-clad construction, this passive fiber allows efficient power transfer and helps reduce losses and thermal accumulation. As it matches industry-standard active fibers, it is well-suited for mid-power laser beam delivery applications.

Features & Benefits

- Compatible with industry-standard active fibers
- Low background losses
- Excellent geometrical properties

Applications

- Fiber laser beam delivery

Specifications

Optical

Numerical Aperture - Core	0.15 ± 0.02
Numerical Aperture - Inner Cladding	> 0.45
Background Loss @ 1200 nm (dB/m)	< 10

Geometrical & Mechanical

Core Diameter (µm)	50 ± 2
Inner Cladding Diameter (µm)	70 ± 5
Outer Cladding Diameter (µm)	250 ± 5
Core/Cladding Concentricity Error (µm)	< 3.0
Coating Diameter (µm)	375 ± 20
Proof Test (kpsi)	≥ 100

Environmental

Operating Humidity (%)	5 - 85
Operating Temperature (C°)	0 - 70
Storage Humidity (%)	5 - 85
Storage Temperature (C°)	-40 - 85

ISO 9001:2015 certified quality system | RoHS and REACH compliant.
All specifications are subject to change without notice. Reference: 101-10-0835.R1