

DCF-UN-100/120/360-20

Beam Delivery Fiber



The DCF-UN-100/120/360-20 passive fiber features excellent geometrical properties and matches most industry-standard active fibers on the market. With its triple-clad construction, this multi-mode fiber presents excellent loss management and is ideal as a beam delivery cable for high-power CW fiber lasers.

Features & Benefits

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

Applications

- Fiber laser beam delivery
- Material processing

Specifications

Optical

Numerical Aperture - Core	0.20 ± 0.02
Numerical Aperture - Cladding	> 0.45
Background Loss @ 1200 nm (dB/km)	< 10

Geometrical & Mechanical

Core Diameter (µm)	100 ± 5
Cladding Diameter (µm)	360 ± 3
Core/Cladding Concentricity Error (µm)	< 3
Coating Diameter (µm)	560 ± 20
Proof Test (kpsi)	≥ 100

Environmental

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