

NuBEAM 600 Micron Core Beam Delivery Fiber



Coherent | Nufern's beam delivery NuBEAM specialty multimode step-index fibers are designed for compatibility with the majority of fiber interconnect systems and diode laser power delivery systems. Coherent | Nufern has applied its unique manufacturing facility and capabilities to this product area and has established leading optical, mechanical and geometric tolerances. This fiber features a 600 micron core diameter, 0.22 NA and 720 micron clad diameter with a silicone coating and a transparent nylon buffer. All fiber is proof tested to > 100 kpsi to ensure long term reliability.

Typical Applications

- Fiber coupled diode lasers
- Couplers and pump combiners
- Beam delivery cables
- Spectroscopy and instrumentation

Features & Benefits

- Robust industry standard design — Compatible with majority of fiber interconnect systems
- Exceptional geometric uniformity and core/clad concentricity — Ease of assembly
- Clean room fiber draw — Eliminates coating "hot spots"
- Pure silica core — High resistance to optical damage
- All fiber proof tested to > 100 kpsi — Critical for ensuring long term reliability when coiling

Optical Specifications

Operating Wavelength
Core NA
OH Level

BD-S600/660/720-STN

700 – 2200 nm
0.220 ± 0.020
Low

Geometrical & Mechanical Specifications

First Cladding Diameter	680 ± 20 µm
Second Cladding Diameter	735 ± 15 µm
Core Diameter	612.00 ± 12.00 µm
First Buffer Diameter	900 ± 25 µm
Second Buffer Diameter	1100 ± 55 µm
First Buffer Material	Silicone
Second Buffer Material	Transparent Nylon
Short Term Bend Radius	≥ 37 mm
Long Term Bend Radius	≥ 110 mm
Proof test Level	≥ 100 kpsi (0.7 GN/m ²)



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Custom developed fiber (FUD) specifications are subject to change without notice. Other configurations such as alternative form factors, optimized cut-off and UV cured color coating may be available. Let us know how Nufern can assist with your requirements.

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