

NuBEAM 150 μm 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 geometrical tolerances. This fiber features a 150 micron core diameter, 0.22 NA and is available 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-S150/180/660-STN

700 – 2200 nm
0.220 \pm 0.020
Low

Geometrical & Mechanical Specifications

First Cladding Diameter	186 \pm 6 μm
Second Cladding Diameter	673 \pm 13 μm
Core Diameter	153.00 \pm 3.00 μm
First Buffer Diameter	780 \pm 20 μm
Second Buffer Diameter	1100 \pm 55 μm
First Buffer Material	Silicone
Second Buffer Material	Transparent Nylon
Short Term Bend Radius	\geq 34 mm
Long Term Bend Radius	\geq 100 mm
Proof test Level	\geq 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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