

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 | 700 – 2200 nm |
| Core NA | 0.220 \pm 0.020 |
| OH Level | Low |

BD-S150/180/660-STN

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.