



# NuBEAM 1000 $\mu\text{m}$ Core Beam Delivery Fiber

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. This fiber features a 1000 micron core diameter, 0.22 NA and 1100 micron clad diameter with a silicone coating and a transparent nylon buffer. This fiber is also available with Nufern's proprietary NuCOAT-FA coating for added power confinement or polyimide for high temperature applications. Additional clad diameters and different NAs are available upon request.

## 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

## Optical Specifications

Operating Wavelength  
Core NA  
OH Level

## BD-S1000/1100-STN

800 – 2100 nm  
 $0.220 \pm 0.020$   
Low

## Geometrical & Mechanical Specifications

Cladding Diameter  
Core Diameter  
First Buffer Diameter  
Second Buffer Diameter  
First Buffer Material  
Second Buffer Material  
Short Term Bend Radius  
Long Term Bend Radius  
Proof test Level

$1122.0 \pm 22.0 \mu\text{m}$   
 $1020.0 \pm 20.0 \mu\text{m}$   
 $1200.0 \pm 36.0 \mu\text{m}$   
 $1400 \pm 70 \mu\text{m}$   
Silicone  
Transparent Nylon  
 $\geq 110 \text{ mm}$   
 $\geq 330 \text{ mm}$   
 $\geq 70 \text{ kpsi (0.5 GN/m}^2\text{)}$



Buffer Requirements: Silicone Primary Buffer, Transparent Nylon Outer Buffer  
Low or High -OH Core: Low  
Matched or Depressed Cladding: Depressed  
Special Core Dopants: Pure Silica Core

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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.

