NuBEAM 200 µm Core Beam Delivery Fibers



Coherent'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. These fibers feature a 200 micron core diameter, 0.22 NA and are available in three different clad diameters with a silicone coating and a transparent nylon buffer. These fibers are also available with Coherent'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	BD-S200/240-STN	BD-S200/220/360-STN	BD-S200/230/660-STN
Operating Wavelength	800 – 2100 nm	800 – 2100 nm	800 – 2100 nm
Core NA	0.215 ± 0.005	0.220 ± 0.020	0.220 ± 0.020
OH Level	Low	Low	Low
Geometrical & Mechanical			
Specifications			
Cladding Diameter (inner)	242.0 ± 2.0 μm	226.0 ± 6.0 μm	237.0 ± 7.0 μm
Second Cladding Diameter	N/A	367.5 ± 7.5 μm	672.5 ± 12.5 μm
Core Diameter	202.0 ± 2.0 μm	204.0 ± 4.0 µm	204.0 ± 4.0 μm
First Buffer Diameter	335.0 ± 35.0 μm	460.0 ± 13.0 μm	780.0 ± 20.0 μm
Second Buffer Diameter	470 ± 40 μm	650 ± 32 μm	1100 ± 55 μm
First Buffer Material	Silicone	Silicone	Silicone
Second Buffer Material	Transparent Nylon	Transparent Nylon	Transparent Nylon
Short Term Bend Radius	≥ 12 mm	≥ 18 mm	≥ 66 mm
Long Term Bend Radius	≥ 36 mm	≥ 54 mm	≥ 198 mm
Prooftest Level	≥ 100 kpsi (0.7 GN/m²)	≥ 100 kpsi (0.7 GN/m²)	≥ 100 kpsi (0.7 GN/m²)



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 Coherent can assist with your requirements.