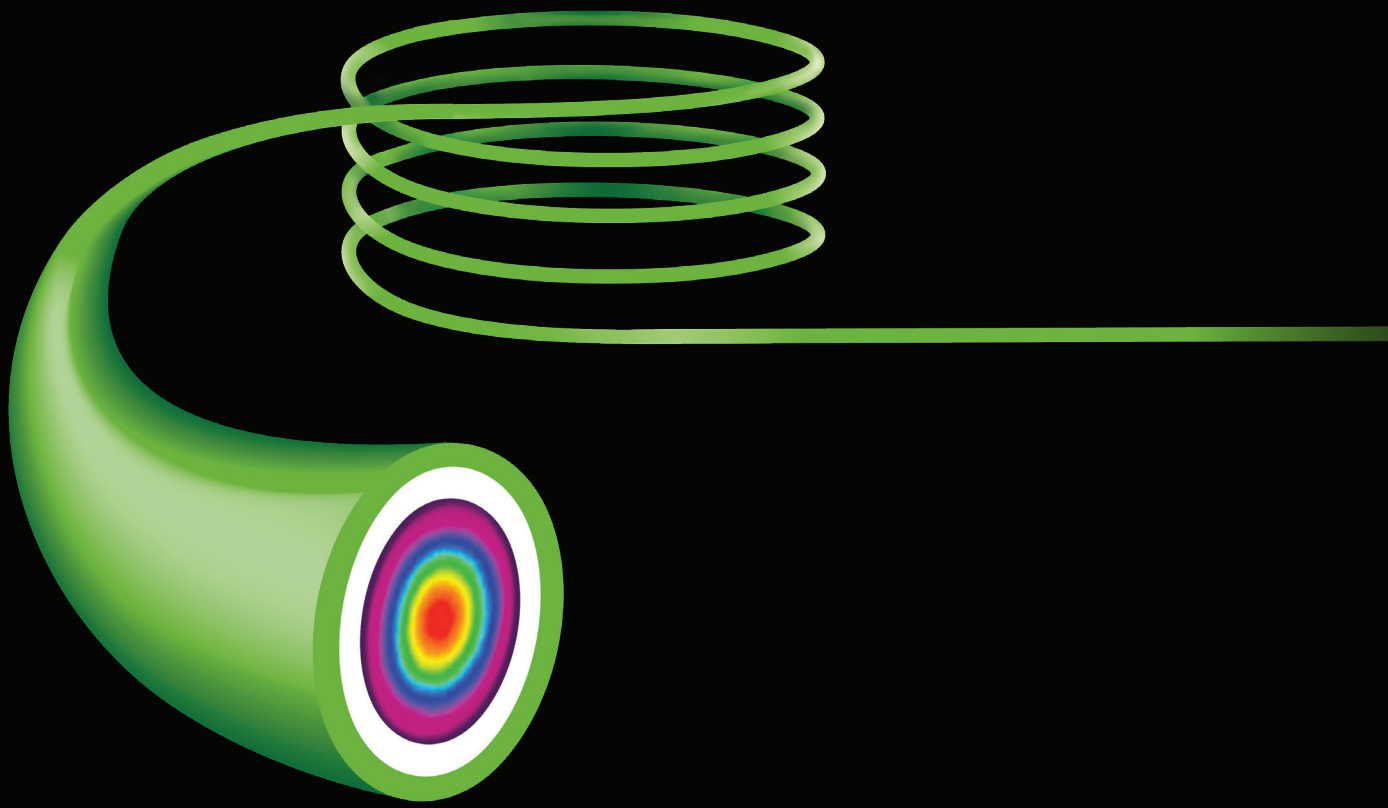
NuBEAM™



Delivering Light Energy

Nufern's NuBEAM multimode, step index beam delivery fibers are designed for solid state, fiber and diode laser systems. Benefiting from an environmentally controlled facility and many years of experience, the engineers at Nufern have developed a new generation of beam delivery fibers designed to address the laser industry's ever increasing need for greater power handling capability. NuBEAM fibers are available in a large assortment of core and clad diameters accommodating the widest range of applications. NuBEAM power delivery fibers are offered with silicone and transparent nylon buffers. They are also available with Nufern's proprietary NuCOAT$_{FA}$ coating for added power confinement or polyimide for high temperature applications.

NUFERN®

www.nufern.com

OPTICAL FIBERS — FIBER GYRO COILS — DEFENSE TECHNOLOGY — FIBER LASERS & AMPLIFIERS

NUBEAM™

Delivering Light Energy

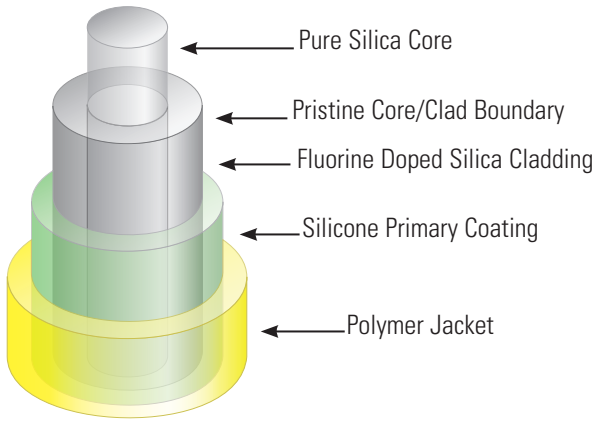
Optical Features & Benefits

- Exceptional geometric tolerances — Ease of assembly and superb repeatability
- Clean room fiber draw — Eliminates "hot spots"
- Pure silica core — High damage resistance and very low attenuation

Mechanical Features & Benefits

- Robust design — Compatible with majority of fiber interconnect systems
- Clean room processing — Provides high-strength and long-life fibers
- Core diameters ranging from 50 µm to 1000 µm — Covers the lowest to highest power applications

Typical Fiber Construction



Standard NuBEAM Pump Delivery Fibers

Product Number	Core Diameter	Core NA	First Clad Diameter	Coating Material
MM-S105/125-12A	105 µm	0.12	125 µm	Acrylate
MM-S105/125-15A		0.15		
MM-S105/125-22A		0.22		
MM-S106.5/125-22HTA	106.5 µm	0.22		High-Temperature Acrylate
MM-S135/155-22FA	135 µm	0.22	155 µm	NuCOAT$_{FA}$ (Fluoroacrylate)
MM-S200/220-12A	200 µm	0.12	220 µm	Acrylate
MM-S200/220-22A		0.22		
MM-S200/240-22A		0.22	240 µm	
MM-S400/440-12A	400 µm	0.12	440 µm	
MM-S400/440-22A		0.22		
MM-S400/480-22FA		0.22	480 µm	NuCOAT$_{FA}$ (Fluoroacrylate)

Standard NuBEAM Power Delivery Fibers

Product Number	Core Diameter	First Clad Diameter	Second Clad Diameter	Silicone First Buffer Diamter	Transparent Nylon Final Buffer
BD-S50/70/360-STN	50 µm	70 µm	360 µm	460 µm	650 µm
BD-S50/70/480-STN			480 µm	580 µm	750 µm
BD-S50/70/660-STN			660 µm	780 µm	1100 µm
BD-S100/120/360-STN	100 µm	120 µm	360 µm	460 µm	650 µm
BD-S100/130/480-STN		130 µm	480 µm	580 µm	750 µm
BD-S100/130/660-STN			660 µm	780 µm	1100 µm
BD-S200/240-STN	200 µm	240 µm	NA	335 µm	470 µm
BD-S200/220/360-STN		220 µm	360 µm	460 µm	650 µm
BD-S200/230/660-STN		230 µm	660 µm	780 µm	1100 µm
BD-S300/330/360-STN	300 µm	330 µm	360 µm	460 µm	650 µm
BD-S400/440/660-STN	400 µm	440 µm	660 µm	780 µm	1100 µm
BD-S1000/1100-STN	1000 µm	1100 µm	NA	1200 µm	1400 µm

NuCOAT$_{FA}$, high temperature acrylate or polyimide coating also available upon request

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Capabilities and typical design parameters are described above. Various standard and OEM designs are available.

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