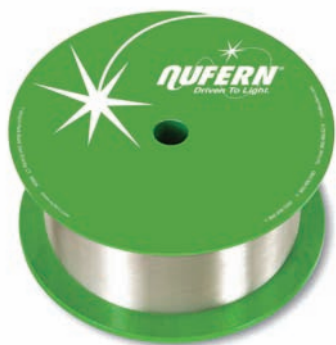


Specialty Multi-Mode Fibers



Nufern's specialty multi-mode fibers are ideal for a variety of diverse applications. They are capable of withstanding extreme environments and large temperature swings. Features include step index and graded index configurations, numerical apertures from 0.06 to 0.45 and core sizes from 10 μm to 700 μm . All fibers are available with a high temperature acrylate, silicone, or polyimide coating.

Typical Applications

- Telecom FDDI, FTTH, etc.
- Optical pump & beam delivery
- Robust duty in extreme environments
- CATV and data comm.

Features & Benefits

- Operate over wide frequency range — One fiber serves broad applications
- Exceptional uniformity and core/clad concentricity — Minimize fiber induced signal artifacts
- Higher proof test levels — Longest life expectancy
- Tight diameter control — Lowest cost deployments

Optical Specifications

Operating Wavelength (nominal)	800 – 1350 nm
Numerical Aperture	0.20 \pm 0.015
Bandwidth	\geq 500 MHz-km @ 850 nm
Bandwidth	\geq 500 MHz-km @ 1300 nm
Attenuation	\leq 4.0 dB/km @ 850 nm
Attenuation	\leq 1.5 dB/km @ 1300 nm

Geometrical & Mechanical Specifications

Core Diameter	50 \pm 3 μm
Clad Diameter	125 \pm 2 μm
Coating Diameter	250 \pm 20 μm
Core-Clad Concentricity	$<$ 3 μm
Coating Material	Thermally Cured Silicone
Operating Temperature	- 65 to + 200°C
Short-Term Bend Radius	\geq 12 mm
Long-Term Bend Radius	\geq 25 mm
Proof Test Level (Radius Bend Method)	\geq 100 kpsi (0.7 GN/m ²)

GI50/125S

Operating Wavelength (nominal)	800 – 1350 nm
Numerical Aperture	0.20 \pm 0.015
Bandwidth	\geq 500 MHz-km @ 850 nm
Bandwidth	\geq 500 MHz-km @ 1300 nm
Attenuation	\leq 4.0 dB/km @ 850 nm
Attenuation	\leq 1.5 dB/km @ 1300 nm

Core Diameter	50 \pm 3 μm
Clad Diameter	125 \pm 2 μm
Coating Diameter	250 \pm 20 μm
Core-Clad Concentricity	$<$ 3 μm
Coating Material	Thermally Cured Silicone
Operating Temperature	- 65 to + 200°C
Short-Term Bend Radius	\geq 12 mm
Long-Term Bend Radius	\geq 25 mm
Proof Test Level (Radius Bend Method)	\geq 100 kpsi (0.7 GN/m ²)

GI62.5/125S

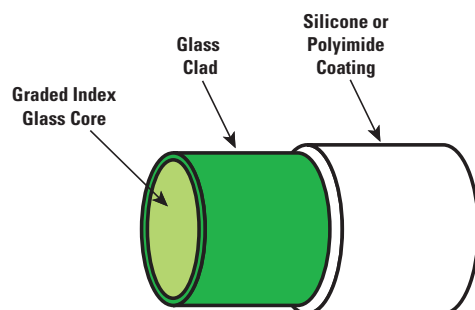
Operating Wavelength (nominal)	800 – 1350 nm
Numerical Aperture	0.275 \pm 0.015
Bandwidth	\geq 160 MHz-km @ 850 nm
Bandwidth	\geq 500 MHz-km @ 1300 nm
Attenuation	\leq 3.0 dB/km @ 850 nm
Attenuation	\leq 0.9 dB/km @ 1300 nm

Core Diameter	62.5 \pm 3 μm
Clad Diameter	125 \pm 2 μm
Coating Diameter	250 \pm 20 μm
Core-Clad Concentricity	$<$ 3 μm
Coating Material	Thermally Cured Silicone
Operating Temperature	- 65 to + 200°C
Short-Term Bend Radius	\geq 12 mm
Long-Term Bend Radius	\geq 25 mm
Proof Test Level (Radius Bend Method)	\geq 100 kpsi (0.7 GN/m ²)

GI100/140P

Operating Wavelength (nominal)	800 – 1350 nm
Numerical Aperture	0.29 \pm 0.02
Bandwidth	\geq 100 MHz-km @ 850 nm
Bandwidth	\geq 100 MHz-km @ 1300 nm
Attenuation	\leq 5.0 dB/km @ 850 nm
Attenuation	\leq 3.0 dB/km @ 1300 nm

Core Diameter	100 \pm 3 μm
Clad Diameter	140 \pm 3 μm
Coating Diameter	172 \pm 2 μm
Core-Clad Concentricity	$<$ 5 μm
Coating Material	Thermally Cured Polyimide
Operating Temperature	- 65 to + 300°C
Short-Term Bend Radius	\geq 7 mm
Long-Term Bend Radius	\geq 15 mm
Proof Test Level (Radius Bend Method)	\geq 200 kpsi (1.4 GN/m ²)



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