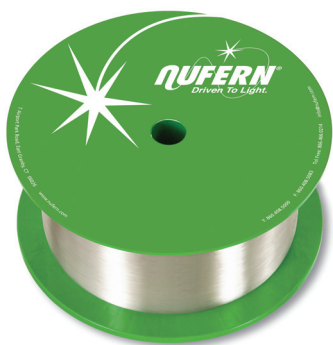


Specialty Multi-Mode Fibers



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)
Numerical Aperture
Bandwidth
Bandwidth
Attenuation
Attenuation

GI50/125S

800 – 1350 nm
0.20 \pm 0.015
 \geq 500 MHz-km @ 850 nm
 \geq 500 MHz-km @ 1300 nm
 \leq 4.0 dB/km @ 850 nm
 \leq 1.5 dB/km @ 1300 nm

GI62.5/125S

800 – 1350 nm
0.275 \pm 0.015
 \geq 160 MHz-km @ 850 nm
 \geq 500 MHz-km @ 1300 nm
 \leq 3.0 dB/km @ 850 nm
 \leq 0.9 dB/km @ 1300 nm

GI100/140P

800 – 1350 nm
0.29 \pm 0.02
 \geq 100 MHz-km @ 850 nm
 \geq 100 MHz-km @ 1300 nm
 \leq 5.0 dB/km @ 850 nm
 \leq 3.0 dB/km @ 1300 nm

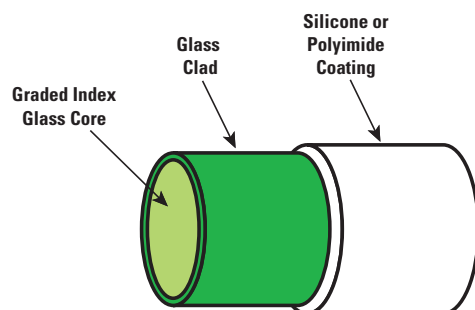
Geometrical & Mechanical Specifications

Core Diameter
Clad Diameter
Coating Diameter
Core-Clad Concentricity
Coating Material
Operating Temperature
Short-Term Bend Radius
Long-Term Bend Radius
Proof Test Level (Radius Bend Method)

50 \pm 3 μm
125 \pm 2 μm
250 \pm 20 μm
< 3 μm
Thermally Cured Silicone
- 65 to + 200°C
 \geq 12 mm
 \geq 25 mm
 \geq 100 kpsi (0.7 GN/m²)

62.5 \pm 3 μm
125 \pm 2 μm
250 \pm 20 μm
< 3 μm
Thermally Cured Silicone
- 65 to + 200°C
 \geq 12 mm
 \geq 25 mm
 \geq 100 kpsi (0.7 GN/m²)

100 \pm 3 μm
140 \pm 3 μm
172 \pm 2 μm
< 5 μm
Thermally Cured Polyimide
- 65 to + 300°C
 \geq 7 mm
 \geq 15 mm
 \geq 200 kpsi (1.4 GN/m²)



光技術をサポートする
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<http://www.optoscience.com>

東京本社 〒160-0014 東京都新宿区内藤町1番地 内藤町ビルディング
TEL: 03 (3356) 1064 FAX: 03 (3356) 3466 E-mail: info@optoscience.com
大阪支店 〒532-0011 大阪市淀川区西中島7-7-2 新大阪ビル西館
TEL: 06 (6305) 2064 FAX: 06 (6305) 1030 E-mail: osk@optoscience.com
名古屋営業所 〒450-0002 名古屋市中村区名駅2-37-21 東海ソフトビル
TEL: 052 (569) 6064 FAX: 052 (569) 8064 E-mail: ngo@optoscience.com