

SINGLE-MODE FIBERS

Features

- Single mode transmission at a range of standard wavelength between 350 nm and 1550 nm
- All fibers available with 125 μm diameter to allow the use of standard connectors
- High NA fibers available
- Specialty coatings available for high temperatures, high vacuum and harsh chemicals environments
- Radiation resistant type available
- Standard communication fibers available

Fiber-Design

- Doped fused silica core
- Pure fused silica cladding
- Dual layer Acrylate coating (-40°C to 85°C)
- Polyimide coating (- 190°C to 385°C)

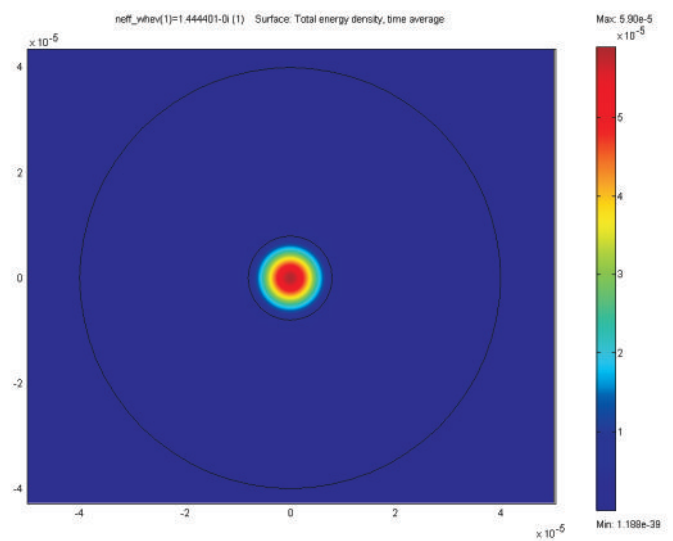


Buffer optional

- Silicone
- Acrylat
- Hard Clad
- Polyimide

Options

- Numerical apertures 0.10 to 0.35
- Metal coating (-190°C to 750°C)
- Connectors (DIN, FC/PC, ST, SMA)
- Single-mode fiber cables
- 80 μm cladding
- high NA $\leq 0, 2$
- high temperature acrylate (-40°C to 200°C)

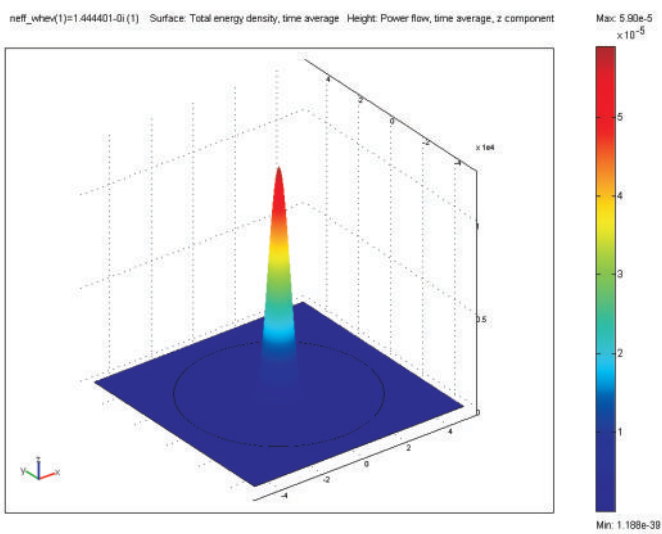


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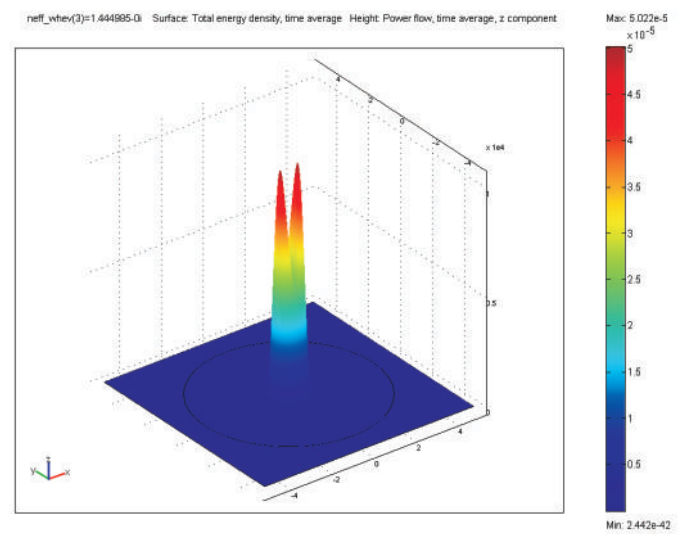
| ACRYLATE COATED FIBERS | Product code | Nominal Core Diameter (μm) | MFD (μm) | Coating Diameter (μm) | Operation Wavelength (nm) | Cutoff Wavelength (nm) | Max. Attenuation (dB/km) |
|------------------------|---------------|---|-----------------------|------------------------------------|---------------------------|------------------------|--------------------------|
| (-40°C to 85°C) | SM 400/125 A | 2.2 | 2.7 | 250 \pm 15 | 400 | 340 \pm 50 | 65 |
| | Sm 488/125 A | 2.7 | 3.2 | 250 \pm 15 | 488, 514 | 420 \pm 50 | 30 |
| | SM 633/125 A | 3.7 | 4.4 | 250 \pm 15 | 633 | 580 \pm 30 | 12 |
| | SM 780/125 A | 4.6 | 5.5 | 250 \pm 15 | 780 | 720 \pm 40 | 5 |
| | SM 850/125 A | 4.9 | 5.9 | 250 \pm 15 | 850 | 770 \pm 50 | 4 |
| | SM 1060/125 A | 6.2 | 7.4 | 250 \pm 15 | 1060 | 970 \pm 60 | 2 |
| | SM 1310/125 A | 8.0 | 9.5 | 250 \pm 15 | 1310, 1550 | 1260 \pm 60 | 0.36, 0.22 |

| POLYIMIDE COATED FIBERS | Product code | Nominal Core Diameter (μm) | MFD (μm) | Coating Diameter (μm) | Operation Wavelength (nm) | Cutoff Wavelength (nm) | Max. Attenuation (dB/km) |
|-------------------------|----------------|---|-----------------------|------------------------------------|---------------------------|------------------------|--------------------------|
| (-190°C to 385°C) | SM 400/125 PI | 2.2 | 2.7 | 145 \pm 3 | 400 | 340 \pm 50 | 65 |
| | SM 488/125 PI | 2.7 | 3.2 | 145 \pm 3 | 488, 514 | 420 \pm 50 | 30 |
| | SM 633/125 PI | 3.7 | 4.4 | 145 \pm 3 | 633 | 580 \pm 30 | 12 |
| | SM 780/125 PI | 4.6 | 5.5 | 145 \pm 3 | 780 | 720 \pm 40 | 6 |
| | SM 850/125 PI | 4.9 | 5.9 | 145 \pm 3 | 850 | 770 \pm 50 | 5 |
| | SM 1060/125 PI | 6.2 | 7.4 | 145 \pm 3 | 1060 | 970 \pm 60 | 3 |
| | SM 1310/125 PI | 8.0 | 9.5 | 145 \pm 3 | 1310, 1550 | 1260 \pm 60 | 0.8, 0.5 |

Other specifications upon request.
 (e.g. Two Mode Fibers)



Energy density - Single Mode Fiber



Energy density - Two Mode Fiber