

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)

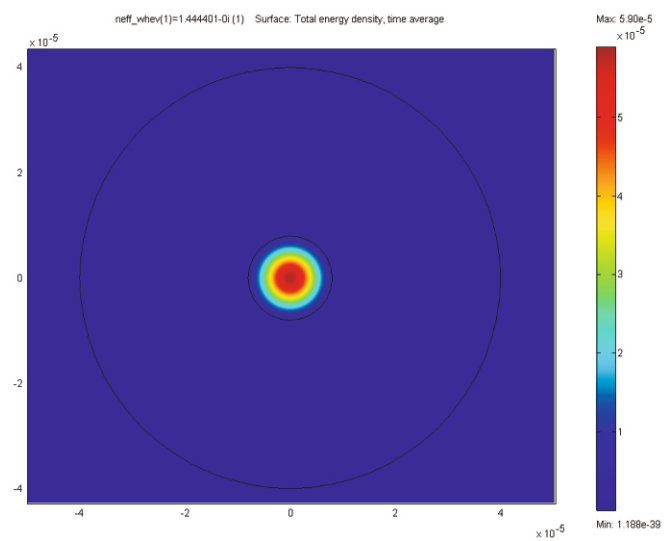


Buffer optional

- 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)

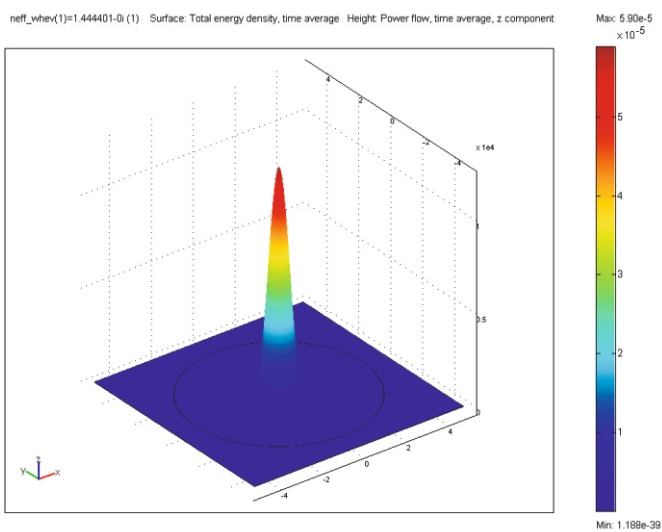


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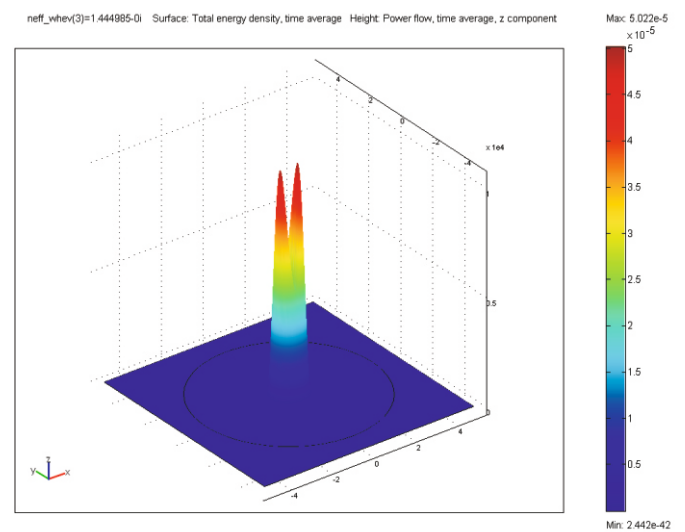
ACRYLATE COATED FIBERS	Product code	Nominal Core Diameter (μm)	MFD (μm)	Coating Diameter (μm)	Operation Wavelength (nm)	Cutoff Wavelength (nm)	Max. Attenuation (dB/km)
(-40°C to 85°C)	SM 400/125 A	2.2	2.7	250 \pm 15	400	340 \pm 50	65
	Sm 488/125 A	2.7	3.2	250 \pm 15	488, 514	420 \pm 50	30
	SM 633/125 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