



RECOGNIZED WORLD LEADER IN FIBER OPTIC TECHNOLOGY

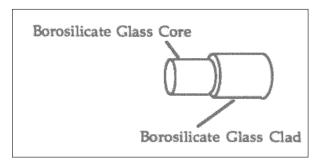
QUALITY FIBER COMPONENTS, EQUIPMENT, & SUPPLIES

Product Data Sheet

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Borosilicate Fiber Optics

Romack Inc.



Characteristics

- · 0.55NA (33° 1/2 angle) Nominal (other NAs available)
- · 50µm Fiber Diameter Standard (other sizes available)
- · Core / clad ratio 83%
- · Bend radius 300x clad diameter
- · Operating temperature to -40 to +100°C
- · Sheathing many options

Note: This fiber is sold in bundle format only, and can have virtually all end fitting installed, including custom fittings.

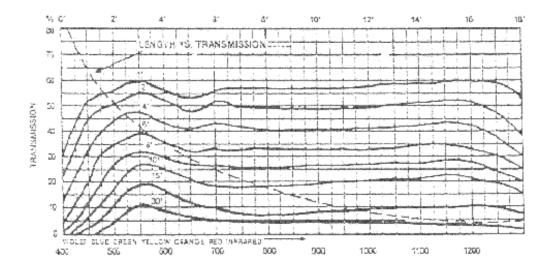
Properties

- · Step index profile
- · Borosilicate construction
- · NA 0.55 to 0.66

- \cdot -40°C to +275°C operation
- · High core-to-clad ratios
- · Transmits from 400 to 1300 nm

Applications

- · Spectorscopy
- IlluminationSensors
- · Microscopy
- $\cdot \ \text{Medical}$
- · Efficient bundles and arrays



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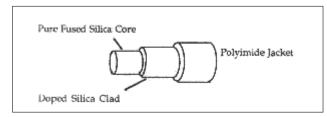
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QUALITY FIBER COMPONENTS, EQUIPMENT, & SUPPLIES

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Silica / Silica Fiber Optics



Properties

- · Step index profile
- · Silica core / Silica clad
- · 0.22 NA
- \cdot -190°C to +385°C operation
- · High core-to-clad ratios
- · Transmits from 180 to 2400 nm
- · Laser power 1.3KW / mm2 CW at 1.06 μ m, up to 10 J Pulsed

Applications

- · Spectorscopy
- · Laser delivery
- · Sensors

- · High temperatures
- · High VAC environments
- · Efficient bundles and arrays

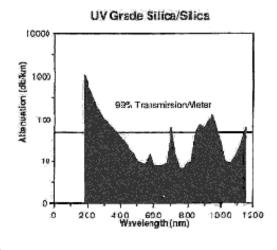
Characteristics

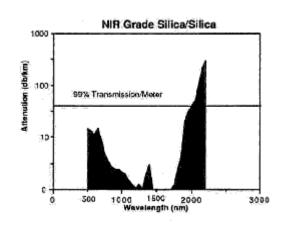
- \cdot 0.22NA (12.7° 1/2 angle) \pm .02
- \cdot Core / clad diameters $\pm 2\%$
- · Jacket diameter $\pm 5\mu$ m
- · Bend radius 300x clad diameter
- · Proof test to 70KPSI
- · Operating temperature -190° to +385°C

Core	Clad	Jacketing (um)
50	55	66
100	110	125
200	220	243
200	240	280
320	385	415
400	440	465
600	660	685

Notes:

- · To order the fiber sizes shown, add FUP prefix to denote UV / VIS grade (high OH) material and FIP to denote VIS / NIR material
- · Other sizes, NAs, jacketing available





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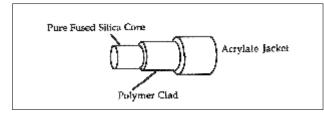
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QUALITY FIBER COMPONENTS, EQUIPMENT, & SUPPLIES

Product Data Sheet

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UV Grade PCS / Silica Fiber Optics



Characteristics

- · 0.38NA (22.9° 1/2 angle) Nominal
- · Core / clad diameters ± 2%
- · Jacket diameter $\pm 5\mu$ m
- · Bend radius 100x clad diameter
- · Proof test to 70KPSI
- · Operating temperature -40 to +100°C

Properties

- · Step index profile
- · Silica core / Silica clad
- · 0.38 NA
- \cdot -40°C to +100°C operation
- · High core-to-clad ratios
- · Transmits from 200 to 2400 nm
- · Laser power 1.3KW / mm² CW at 1.06 μ m, up to 10 J Pulsed

Core	Clad	Jacketing (um)
100	200	270
200	230	370
210	230	270
400	500	600
600	700	800
1000	1100	1200

Applications

- · Spectorscopy
- · Laser delivery
- · Sensors

- · High temperatures
- · Medical
- · Efficient bundles and arrays

Notes:

- · To order the fiber sizes shown, add FUP prefix to denote UV / VIS grade (high OH) material and FIP to denote VIS / NIR material
- · Other sizes, NAs, jacketing available

