FIBER OPTIC CENTER INC.

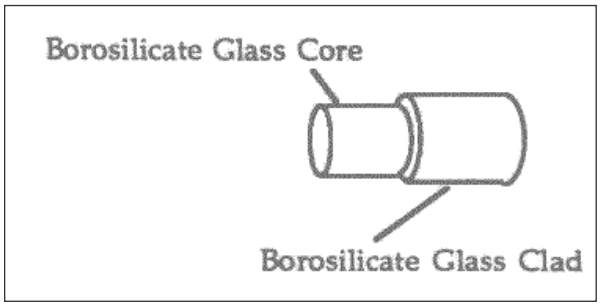
23 Centre Street New Bedford, MA USA 02740-6322
Toll Free: 1-800-IS-FIBER • Tel: 508-992-6464 • Fax: 508-991-8876

e-mail: sales@focenter.com • website: **WWW.FOCENTER.COM**

Product Data Sheet

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

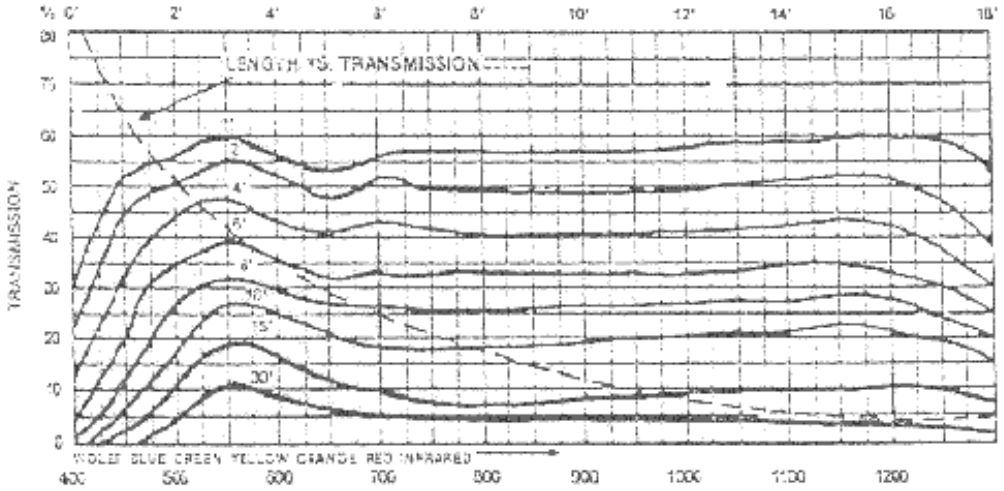
Note: This fiber is sold in bundle format only, and can have virtually all end fitting installed, including custom fittings.

Properties

· Step index profile
· Borosilicate construction
· NA 0.55 to 0.66
· -40°C to +275°C operation
· High core-to-clad ratios
· Transmits from 400 to 1300 nm

Applications

· Spectorscopy
· Illumination
· Sensors
· Microscopy
· Medical
· Efficient bundles and arrays



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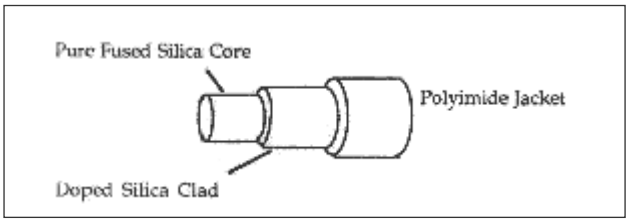
Product Data Sheet

Silica / Silica Fiber Optics



Characteristics

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

Properties

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

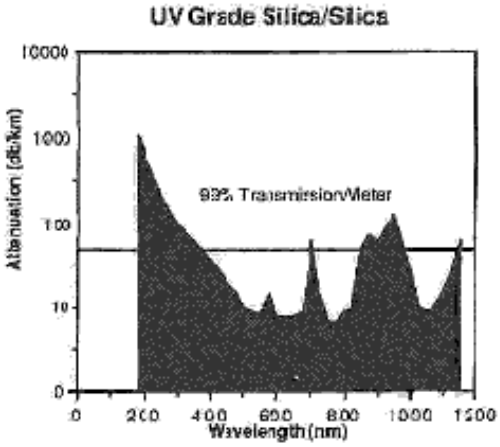
Applications

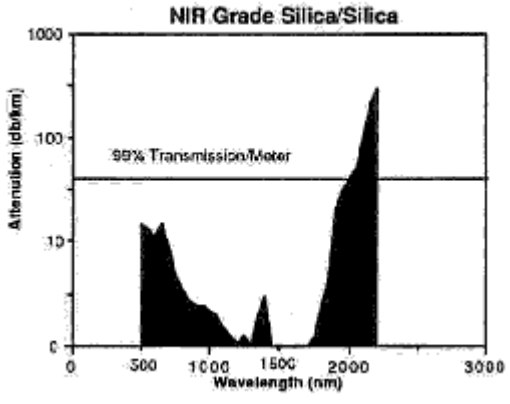
· Spectorscopy
· Laser delivery
· Sensors
· High temperatures
· High VAC environments
· Efficient bundles and arrays

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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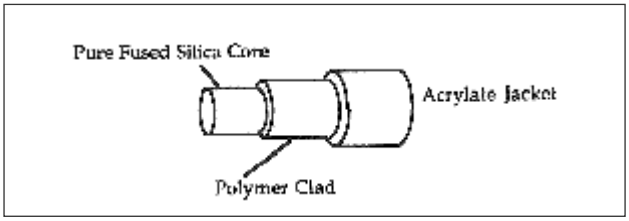
Product Data Sheet

UV Grade PCS / Silica Fiber Optics



Characteristics

· 0.38NA (22.9° 1/2 angle) Nominal
· Core / clad diameters ±2%
· Jacket diameter ±5μm
· 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
· -40°C to +100°C operation
· High core-to-clad ratios
· Transmits from 200 to 2400 nm
· Laser power – 1.3KW / mm^2 CW at 1.06μm, 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