

PCS-FIBERS

Features

- Cost effective alternative to All Silica Fibers (AS)
- Better UV and IR transmission than Hard clad silica fibers
- High numerical aperture
- Biocompatible materials
- Sterilizable by ETO, steam, e-beam, gamma radiation
- Radiation resistant

Fiber-Design

- Fiber design: Pure fused silica core
Silicone resin coating (-40C to 180C)
Polyimide coating (-190C to 385C)
- Jacket: Nylon (-40C to 100C)
ETFE (-200C to 150C)



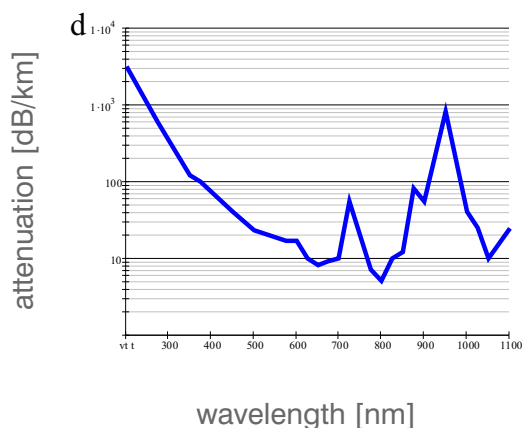
Properties

- Numerical aperture: 0.40 (2 meters)
0.30 (steady state)
- Operation wavelength range: 220 nm to 1100 nm (PCS-UV)
350 nm to 2400 nm (PCS-IR)
- Proof test level (bend method): 70 kpsi
- Bend radius: momentary 100 times the core radius
long term 600 times the core radius
- Laser damage threshold: >1.3 kW/mm² (Nd:YAG, cw at 1060 nm)

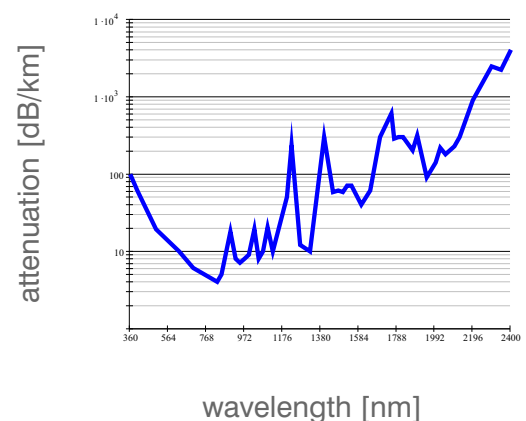
Options

- Special jacket materials
- PCS-Fiber bundles
- Tapered fibers
- Connectors (SMA, FC/PC, DIN)
- PCS-Fiber cables

Spectral Attenuation PCS...UV



Spectral Attenuation PCS...IR



PCS-FIBERS

NYLON BUFFERED FIBERS

(-40°C to 85°C)

NOTE

For silicone coating
 replace A with S in
 product code.

Product code	Core (μm) ± 2%	Cladding (μm) ± 5%	Coating (μm) ± 3%
PCS 100 UVN	100	200	500
PCS 200 UVN	200	350	600
PCS 300 UVN	300	450	900
PCS 400 UVN	400	550	900
PCS 600 UVN	600	800	1200
PCS 800 UVN	800	1000	1400
PCS 1000 UVN	1000	1200	1600
PCS 1300 UVN	1300	1500	1900
PCS 1500 UVN	1500	1700	2100
PCS 2000 UVN	2000	2200	2600

ETFE BUFFERED FIBERS

(-40°C to 150°C)

NOTE

For acrylate coating
 replace S with A in
 product code.

Product code	Core (μm) ± 2%	Cladding (μm) ± 5%	Coating (μm) ± 3%
PCS 200 UVE	200	350	600
PCS 400 UVE	400	550	900
PCS 600 UVE	600	800	1200
PCS 800 UVE	800	1000	1400
PCS 1000 UVE	1000	1200	1600

POLYIMIDE COATED FIBERS

(-190°C to 385°C)

Product code	Core (μm) ± 2%	Cladding (μm) ± 5%	Coating (μm) ± 3%
PCS 200UV	200	240	No Jacket
PCS 200IR	200	240	No Jacket

OTHER SPECIFICATIONS UPON REQUEST.

Fibers are delivered on spools, without CE marking.