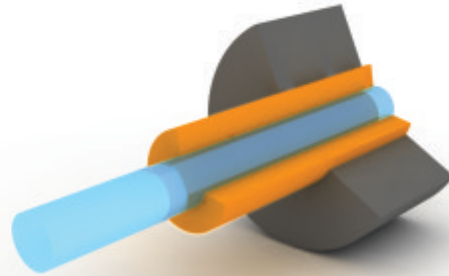
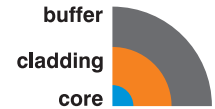


# PCS-FIBERS UV / IR

## 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

### Properties

- Numerical aperture: 0.40 (2 meters) 0.30 (steady state)
- Operation wavelength range: 220 nm to 1100 nm (PCS-UV)
- Operation wavelength range: 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:  $> 1.3 \text{ kW/mm}^2$  (Nd:YAG, cw at 1060 nm)

### Core

- synthetic quartz

### Cladding

- Silicon resin cladding (-40°C to 180°C)

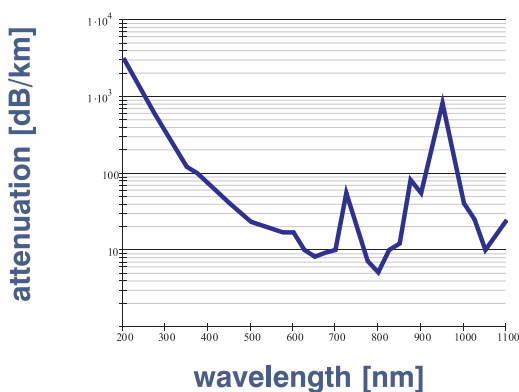
### Buffer

- Nylon (-40°C to 100°C)
- ETFE (-200°C to 150°C)

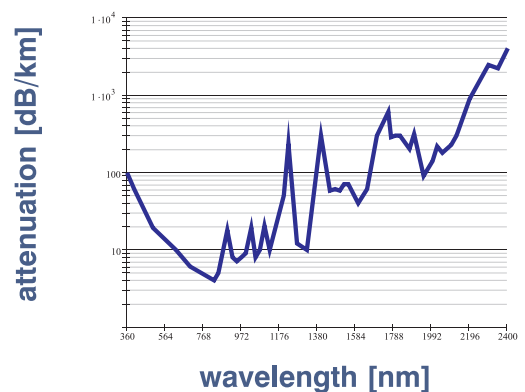
### Optional

- Connectors (SMA, ST, DIN)
- PCS-Fiber Cables

### Spectral Attenuation PCS...UV



### Spectral Attenuation PCS...IR



# PCS-FIBERS

## NYLON BUFFERED FIBERS

(-40°C to 85°C)

### NOTE

For PCS - IP fiber, replace UV with IR in the product code.

Product code	Core ( $\mu\text{m}$ ) $\pm$ 2%	Cladding ( $\mu\text{m}$ ) $\pm$ 5%	Buffer ( $\mu\text{m}$ ) $\pm$ 5%
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)

Product code	Core ( $\mu\text{m}$ ) $\pm$ 2%	Cladding ( $\mu\text{m}$ ) $\pm$ 5%	Buffer ( $\mu\text{m}$ ) $\pm$ 5%
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

## BUNDLES FIBER SPECIFICATIONS

Product code	Core ( $\mu\text{m}$ ) $\pm$ 2%	Cladding ( $\mu\text{m}$ ) $\pm$ 5%	Coating ( $\mu\text{m}$ ) $\pm$ 5%
PCS 200 UV	200	240	No Jacket
PCS 200 IR	200	240	No Jacket

**Other specifications upon request.**