

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

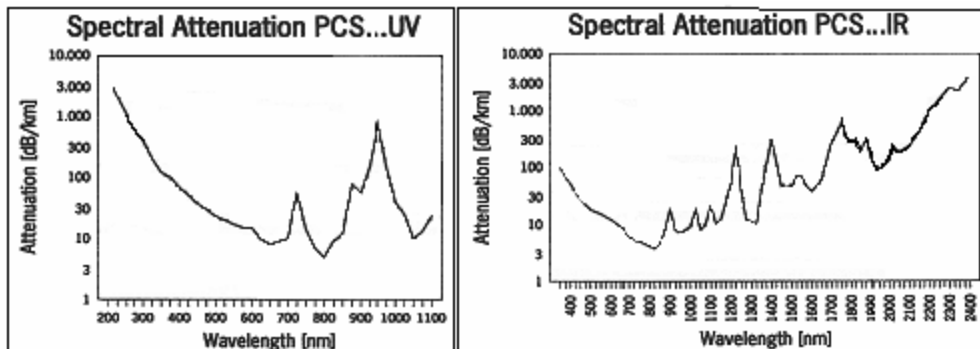
- Fiber design: Pure fused silica core
 - Silicone resin coating (-40°C to 180°C)
 - Polyimide coating (-190°C to 385°C)
- Jacket: Nylon (-40°C to 100°C)
- ETFE (-200°C to 150°C)

FIBER 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





PCS-FIBERS

FIBER SPECIFICATION

NYLON JACKETED FIBERS (-40°C to 85°C)

Product code	Core [μm] $\pm 2 \%$	Clad [μm] $\pm 5 \%$	Jacket [μm] $\pm 5 \%$
PCS 100UVN	100	200	500
PCS 200UVN	200	350	600
PCS 300UVN	300	450	900
PCS 400UVN	400	550	900
PCS 600UVN	600	800	1200
PCS 800UVN	800	1000	1400
PCS 1000UVN	1000	1200	1600
PCS 1300UVN	1300	1500	1900
PCS 1500UVN	1500	1700	2100
PCS 2000UVN	2000	2200	2600

ETFE JACKETED FIBERS (-40°C to 150°C)

Product code	Core [μm] $\pm 2 \%$	Clad [μm] $\pm 5 \%$	Jacket [μm] $\pm 5 \%$
PCS 200UVE	200	350	600
PCS 400UVE	400	550	900
PCS 600UVE	600	800	1200
PCS 800UVE	800	1000	1400
PCS 1000UVE	1000	1200	1600

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

Other specifications upon request.

BUNDLES FIBER SPECIFICATIONS

Product code	Core [μm] $\pm 2 \%$	Clad [μm] $\pm 5 \%$	Coating [μm] $\pm 5 \%$
PCS 200UV	200	240	No Jacket
PCS 200IR	200	240	No Jacket

Other specifications upon request.