

# PLASTIC CLAD SILICA (PCS) FIBERS



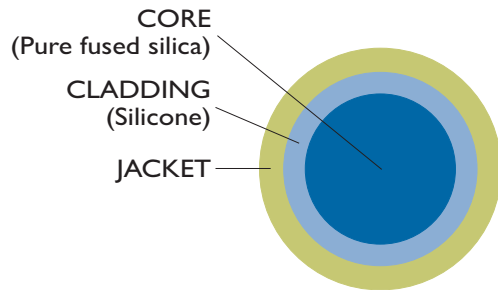
OPERATING SPECTRAL RANGE: 300-1200 NM FOR UV/VIS  
300-2400 NM FOR VIS/NIR

## FEATURES

- Cost effective alternative to all silica fibers
- Better UV and NIR transmission than hard polymer clad silica (HPCS) fibers
- UV/VIS and VIS/NIR types available
- High numerical aperture
- Biocompatible materials
- Sterilizable by ETO, gamma radiation
- Radiation resistant
- Core diameter up to 2 mm
- High concentricity

## FIBER PROPERTIES

- Step index profile
- Numerical aperture: 0.37  
(2 meters, falls to 0.30 for large lengths)
- Proof test: 70 kpsi
- Minimum bend radius:  
100 times the clad radius (momentary)  
600 times the clad radius (long term)
- Laser damage threshold:  
> 100 kW/mm<sup>2</sup> (Nd:YAG, cw at 1064 nm)



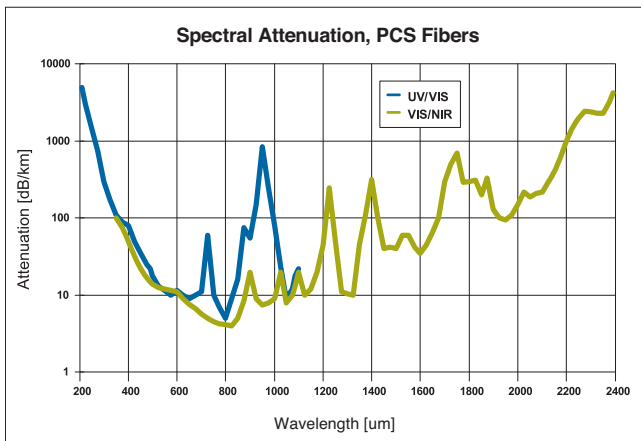
## APPLICATIONS

### Medical

- Laser surgery
- Angioplasty
- Dermatology
- Urology
- Photodynamic therapy
- Diagnostics

### Industrial/Scientific

- Spectroscopy
- Remote illumination
- Remote sensing
- Laser diode coupling
- Laser beam delivery
- Laser welding, marking, cutting and soldering



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PRODUCT CODE	CORE DIAMETER [μm] ± 2 %	CLAD DIAMETER [μm] ± 3 %	JACKET DIAMETER [μm] ± 5 %	NUMERICAL APERTURE ± 0.02	SPECIFIC FEATURE
<b>NYLON JACKETED FIBERS (-40°C TO 100°C)</b>					
PUV200N	200	350	500	0.37	
PUV300N	300	450	650	0.37	
PUV400N	400	550	850	0.37	
PUV600N	600	800	1000	0.37	
PUV800N	800	950	1300	0.37	
PUV1000N	1000	1250	1600	0.37	
PUV1500N	1500	1750	2000	0.37	
PUV2000N	2000	2250	2500	0.37	
<b>TEFZEL JACKETED FIBERS (-40°C TO 150°C)</b>					
PUV200T	200	350	500	0.37	
PUV300T	300	450	650	0.37	
PUV400T	400	550	850	0.37	
PUV600T	600	800	1000	0.37	
PUV800T	800	950	1300	0.37	
PUV1000T	1000	1250	1600	0.37	

**OPTIONAL ACRYLATE JACKET AVAILABLE.**

FOR VIS/NIR PCS FIBER, REPLACE **UV** WITH **IR** IN THE PRODUCT CODE.

**OTHER SPECIFICATIONS UPON REQUEST.**