

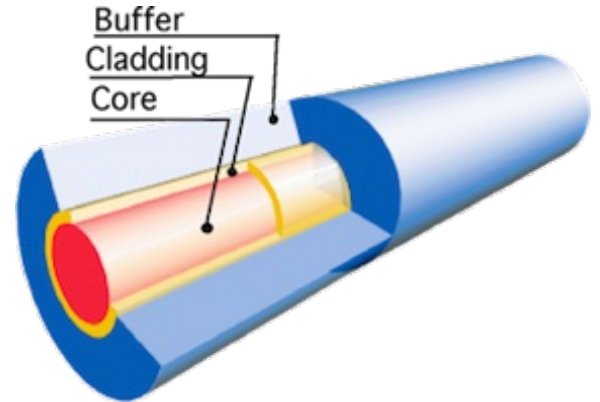
## Hard Polymer Clad Optical Fiber

### Applications

- High energy laser transmission
- Nuclear radiation monitoring
- Factory automation control
- Medical sensors
- Near-IR spectroscopy applications

### Characteristics

- Tolerant of wide fluctuations in temperature and humidity
- Excellent fatigue resistance
- High radiation resistance
- Compatibility with a variety of light sources



### Specifications

Part Number	2300-200	2300-300	2300-400	2300-600
<b>Geometric Properties</b>				
Core Diameter ( $\mu\text{m}$ )	200 $\pm$ 3	300 $\pm$ 6	400 $\pm$ 8	600 $\pm$ 10
Cladding Diameter ( $\mu\text{m}$ )	230+0/-8	330+5/-10	430+5/-10	630+5/-10
Coating Diameter ( $\mu\text{m}$ )	500 $\pm$ 25	650 $\pm$ 30	730 $\pm$ 30	1040 $\pm$ 30
Core Concentricity Error ( $\mu\text{m}$ )	$\leq$ 5.0	$\leq$ 6.0	$\leq$ 8.0	$\leq$ 8.0
<b>Optical Properties</b>				
Numerical Aperture	0.37 $\pm$ 0.02			
Attenuation @ 850nm (dB/km)	$\leq$ 8.0			
OH Content	Low OH			
Refractive Index Profile	Step Index			
<b>Material Composition</b>				
Core	Pure Silica Glass			
Cladding	Fluoroacrylate			
Coating	ETFE			
<b>Environmental and Mechanical Properties</b>				
Short Term Bend Radius (mm)	$\geq$ 10	$\geq$ 16	$\geq$ 29	$\geq$ 58
Long Term Bend Radius (mm)	$\geq$ 16	$\geq$ 24	$\geq$ 47	$\geq$ 94
Operating Temperature ( $^{\circ}\text{C}$ )	-65 to +85			
Proof Test Level (kpsi)	100	75	75	75