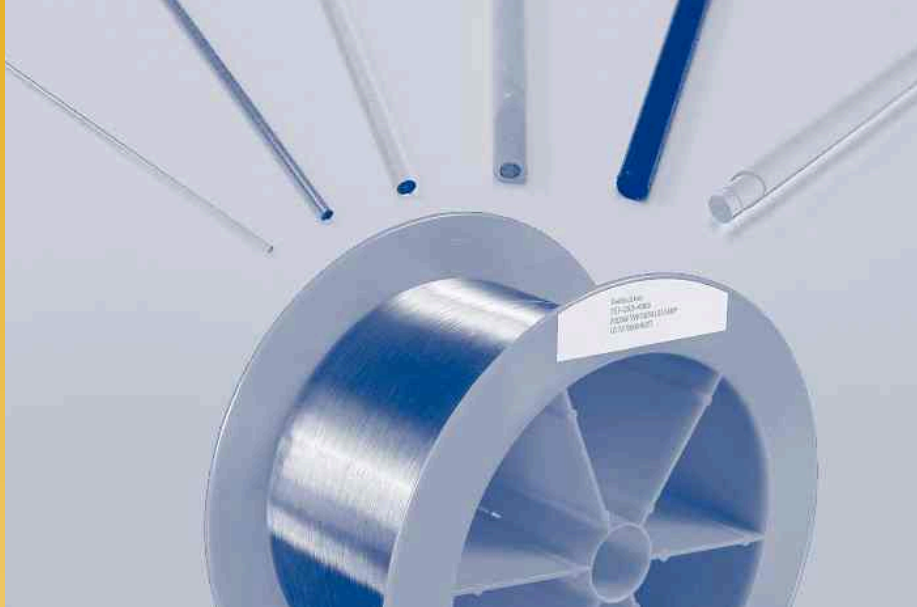


## UV Grade All Silica Fiberoptics



### DESCRIPTION

All silica, UV grade (high OH-), fiberoptics, have been the mainstay of critical industrial, medical, military and basic research applications since 1979. The long track record of these fibers has produced a reliable and consistent availability of this high grade material at an excellent value. The purity of this material is a testimony to the technological advances in material processing and it can be used

in almost any critical spectroscopic, sensing or laser application below 500nm. The 0.22 NA is well matched to the high resolution fiberoptic spectrometers that are available and yet is broad enough to allow easy coupling from lasers.

### APPLICATIONS

- UV/Vis Spectroscopy
- Raman Spectroscopy
- Laser delivery
- Sensors
- UV photolithography
- Laser marking
- Plasma diagnostics
- Flame sensing
- Semiconductor manufacturing equipment
- Thomson scattering
- Medical diagnostics and photo therapy
- Pharmaceutical dissolution testing
- High temperatures
- Vacuum environments and feedthroughs
- Efficient bundles and arrays of all kinds

### FEATURES

- Step index profile
- Silica core/Silica clad
- 0.22 NA
- -190°C to +385°C operation
- High core to clad ratio
- Wavelength range from 180 to 1100nm
- Laser power - 1.3KW/mm<sup>2</sup> CW at 1.06µm, up to 10J - Pulsed

# UV Grade All Silica Fiberoptics

## CHARACTERISTICS (Typical)

- 0.22NA (12.7 degree 1/2 angle) +/- 0.02
- Core/clad diameters +/- 2%
- Jacket diameter +/- 5%
- Long term bend radius - 300 times clad diameter
- Proof tested
- Operating temperature to +385 °C
- Polyimide jacket except for 1000µm which is silicone and tefzel

## NOTES

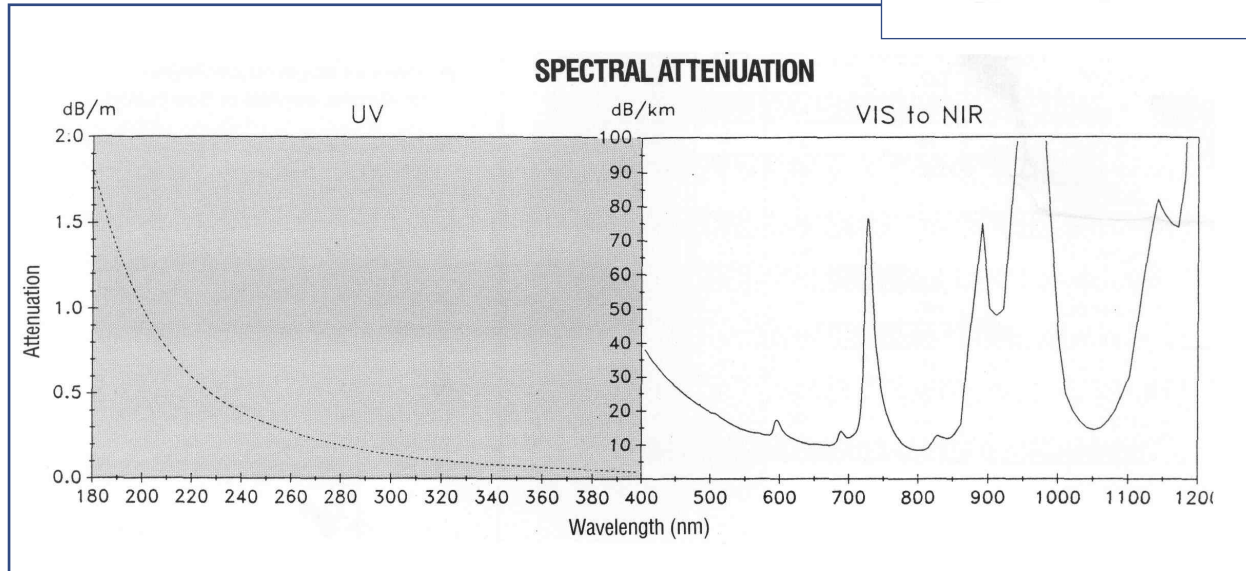
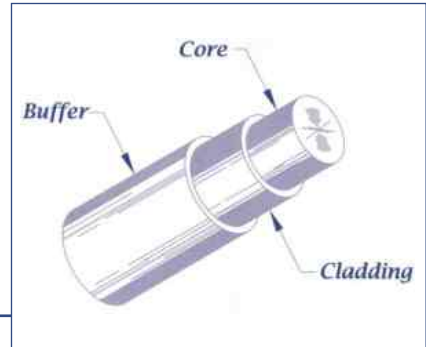
- Other sizes, NAs, jacketing available.
- The curve depicts what can be expected from typical lots of fiber but actual results may vary somewhat.

## Standard Sizes in Core/Clad/Jacketing (µm)

50/55/66  
 100/110/125  
 200/220/243  
 300/330/365  
 320/385/415  
 400/440/480  
 600/660/710  
 1000/1060/1200/1600

## Romack PN

211210-0050  
 211210-0100  
 211210-0200  
 211210-0300  
 211210-0320  
 211210-0400  
 211210-0600  
 211210-1000



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