

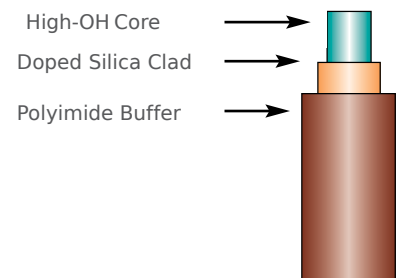
For applications in the deep UV region (190 - 325nm), effects of high levels of UV radiation on the transmission of a silica core optical fiber must be considered. Solarization changes depend on the type of fiber used as well as the intensity and spectral output of the UV source. These changes are wavelength dependent.

### CHARACTERISTICS

Step index	Sterilizable and bio-compatible – USP class VI*
Numerical aperture: $0.22 \pm 0.02$ full acceptance cone: 25.4 degrees	High laser damage threshold
Operating wavelength down to to 190nm	High-OH silica core, doped silica clad
Ultra-high UV transmission	Polyimide buffer standard
Ultra-low UV solarization	Polyimide concentricity < $3\mu\text{m}$
Superior radiation resistance	Custom core sizes, buffers and assemblies available

Proof tested to 100kpsi

Operating temperature:  
-65 to +300°C



### Specifications

Product Descriptor	Core ( $\mu\text{m}$ )	Clad ( $\mu\text{m}$ )	Buffer ( $\mu\text{m}$ )
FDP100110125	$100 \pm 3$	$110 \pm 3$	$124 \pm 3$
FDP200220240	$200 \pm 4$	$220 \pm 4$	$240 \pm 5$
FDP300330370	$300 \pm 6$	$330 \pm 6$	$370 \pm 6$
FDP400440480	$400 \pm 8$	$440 \pm 9$	$480 \pm 7$
FDP600660710	$600 \pm 10$	$660 \pm 10$	$710 \pm 10$

**Note:** The items listed in this table are standard configurations and sizes. Other configurations may be available on request.

\* The end manufacturer is responsible for bio-compatibility and sterilization testing and validation studies.

