molex®

Polymicro Technologies™ Silica/Silica Optical Fiber FV

High -OH

CHARACTERISTICS

Step index

Numerical aperture: 0.22 ± 0.02
Full acceptance cone: 25.4 degrees

UV-Vis-NIR transmission, 180nm to 1,150nm

Superior radiation resistance

High laser damage threshold

Sterilizable and bio-compatible – USP class VI*

High -OH silica core, doped silica clad

Polyimide buffer standard; silicone, acrylate, high-temperature acrylate also available.

Polyimide concentricity < 3µm

Sizes for bundling

Tighter tolerances available

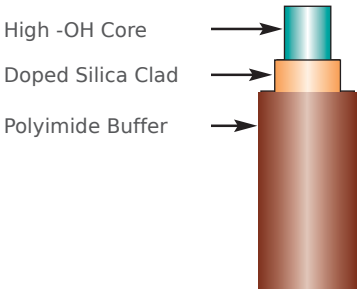
Temperature:
operating –65°C to +300°C
intermittent, up to 400°C

Proof tested to 100kpsi

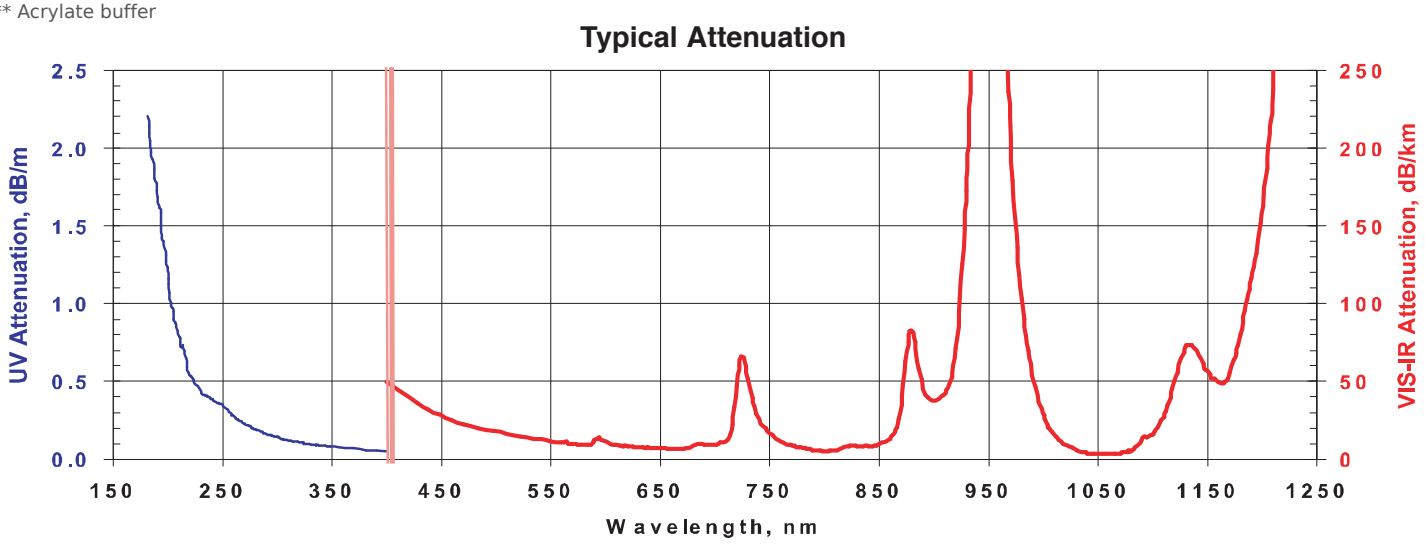
Specifications

Product Descriptor	Core (µm)	Clad (µm)	Buffer (µm)
FVP050055065*	50 ± 2	55 ± 2	65 ± 2
FVP100110125**	100 ± 3	110 ± 3	124 ± 3
FVP150165195	150 ± 3	165 ± 3	195 ± 5
FVP200220240	200 ± 4	220 ± 4	239 ± 5
FVP300330370	300 ± 6	330 ± 7	370 ± 7
FVP400440480	400 ± 8	440 ± 9	480 ± 7
FVP600660710	600 ± 10	660 ± 10	710 ± 10
FVA8008801100***	800 ± 20	880 ± 15	1100 ± 30
FVP100120140	100 ± 3	120 ± 3	140 ± 4
FVP200240280	200 ± 4	240 ± 4	275 ± 5
FVP320385415	320 ± 8	385 ± 8	415 ± 10
FVA100010501250***	1000 ± 20	1050 ± 15	1250 ± 40

* Recommended for UV wavelengths only. Availability varies.
** Not recommended for wavelengths greater than 1000nm.
*** Acrylate buffer



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.

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