

Silica/Silica Optical Fiber FBPI

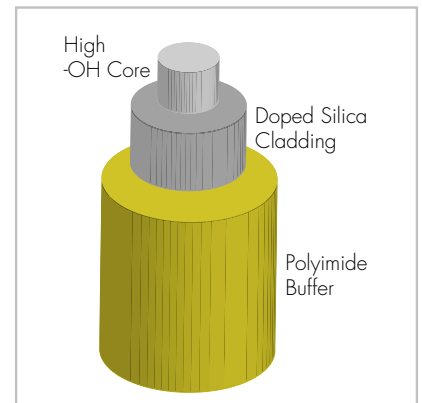
Broadband Quartz Fibers for Industrial and UV Applications

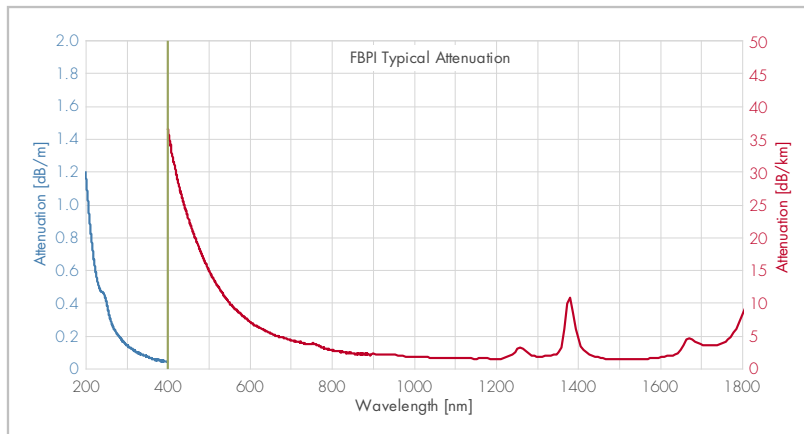
FBPI fibers are particularly unique. They combine the NIR transmission properties of a low-OH fiber with the UV stability of a high-OH fiber. In addition, they exhibit excellent solarization properties for the deep UV range.

Thanks to the patented method of production, customer-specific fibers can be provided in smaller quantities at a good cost-performance ratio.

Characteristics

- Low loss broad spectrum fiber, 200 – 2100 nm
- NIR transmission comparable to low -OH
- UV transmission comparable to high -OH
- Low UV solarization
- Step index
- Numerical aperture: 0.22 ± 0.02
- Silica core, doped silica clad
- Cost effective
- Polyimide concentricity $< 3 \mu\text{m}$
- Tight tolerance
- Operating temperature: $-65 \text{ }^\circ\text{C}$ to $+300 \text{ }^\circ\text{C}$
- Proof tested to 100 kpsi
- Custom sizes, jackets, and assemblies available





Typical Attenuation of the FBPI Series

Specifications

Fiber Type	FBPI200	FBPI300	FBPI400	FBPI600
Core diameter [μm]	200 ± 4	300 ± 6	400 ± 8	600 ± 10
Cladding diameter [μm]	220 ± 4	330 ± 7	440 ± 9	660 ± 10
Coating diameter [μm]	239 ± 5	370 ± 7	480 ± 10	710 ± 10
Temperature area [$^{\circ}\text{C}$]	-65 ... +300	-65 ... +300	-65 ... +300	-65 ... +300
Numerical aperture	0.22 ± 0.02	0.22 ± 0.02	0.22 ± 0.02	0.22 ± 0.02
Coating material	Polyimide	Polyimide	Polyimide	Polyimide
Part number	3002890	3002891	3002892	3002893

Note:

The items listed in this table are standard configurations and sizes.

Other configurations may be available on request.