

## Silica/Silica Optical Fiber FBP

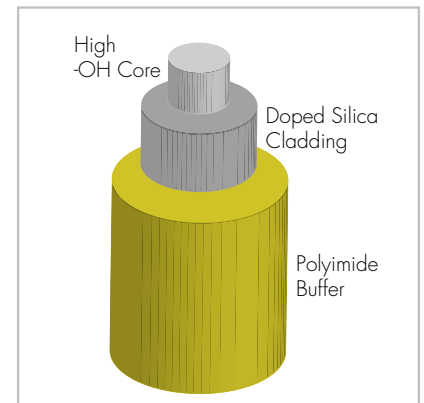
### Broadband Quartz Fibers

Low-loss FBP fibers can be used across a wide wavelength range from 275 nm to 2100 nm. Due to this broadband profile, the FBP fiber meets the requirements of many applications.

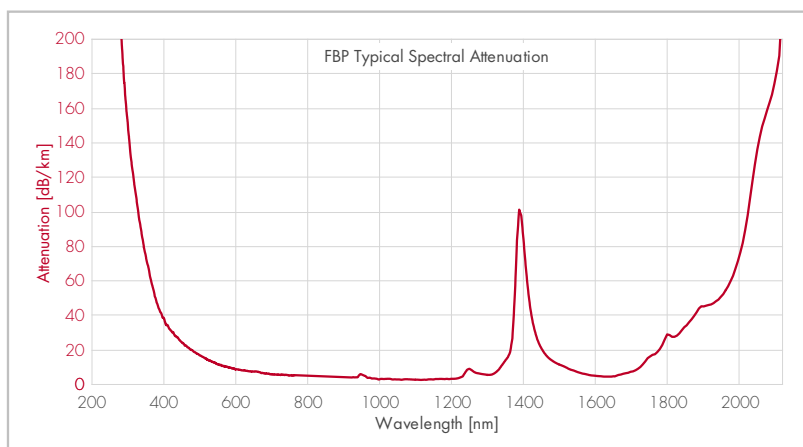
The patented method of production is cost efficient and allows a multitude of diameters.

### Characteristics

- Low loss broad spectrum fiber, 275 – 2100 nm
- Excellent focal ratio degradation characteristics
- Step index
- Numerical aperture:  $0.22 \pm 0.02$
- 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, buffers, jackets, assemblies available



Fiber Design



Typical Attenuation of the FBP Series

## Specifications

Fiber Type	FBP200	FBP300	FBP400	FBP500	FBP600
Core diameter [μm]	200 ± 4	300 ± 6	400 ± 8	500 ± 10	600 ± 10
Cladding diameter [μm]	220 ± 4	330 ± 7	440 ± 9	550 ± 10	660 ± 10
Coating diameter [μm]	239 ± 5	370 ± 7	480 ± 7	590 ± 10	710 ± 10
Temperature area [°C]	-65...+300	-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	0.22 ± 0.02
Coating material	Polyimide	Polyimide	Polyimide	Polyimide	Polyimide
Part number	3002384	3002386	3002388	3002389	3002390

Fiber Type	FBP100	FBP200	FBP320	FBP050	FBP100
Core diameter [μm]	100 ± 3	200 ± 4	320 ± 8	50 ± 2	100 ± 3
Cladding diameter [μm]	120 ± 3	240 ± 4	385 ± 8	70 ± 2	140 ± 3
Coating diameter [μm]	140 ± 4	275 ± 5	415 ± 10	85 ± 3	170 ± 5
Temperature area [°C]	-65...+300	-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	0.22 ± 0.02
Coating material	Polyimide	Polyimide	Polyimide	Polyimide	Polyimide
Part number	3002382	3002385	3992387	3001983	3002383

## Note:

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

Other configurations may be available on request.