

Large Core S series High OH

Fujikura's large core fibers are made of silica glass, thus have high energy density optical transmission. This product has excellent optical transmission characteristics over a wide wavelength range from UV to visible, so it's widely applied in fields related to semiconductor manufacturing, such as UV lithography equipment, and spectroscopic analysis.

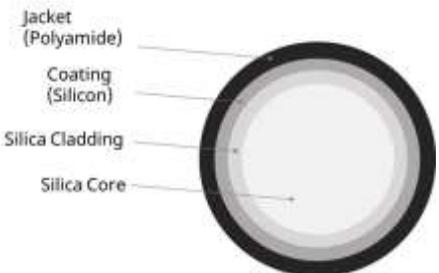


Please contact us about FEP, PFA, and other types of coatings. Polyimide (PI) coated large core fibers are also available as a high heat resistant type. FJK is able to manufacture various types of large core fibers according to customer specifications, from design and prototyping to mass production.

Features

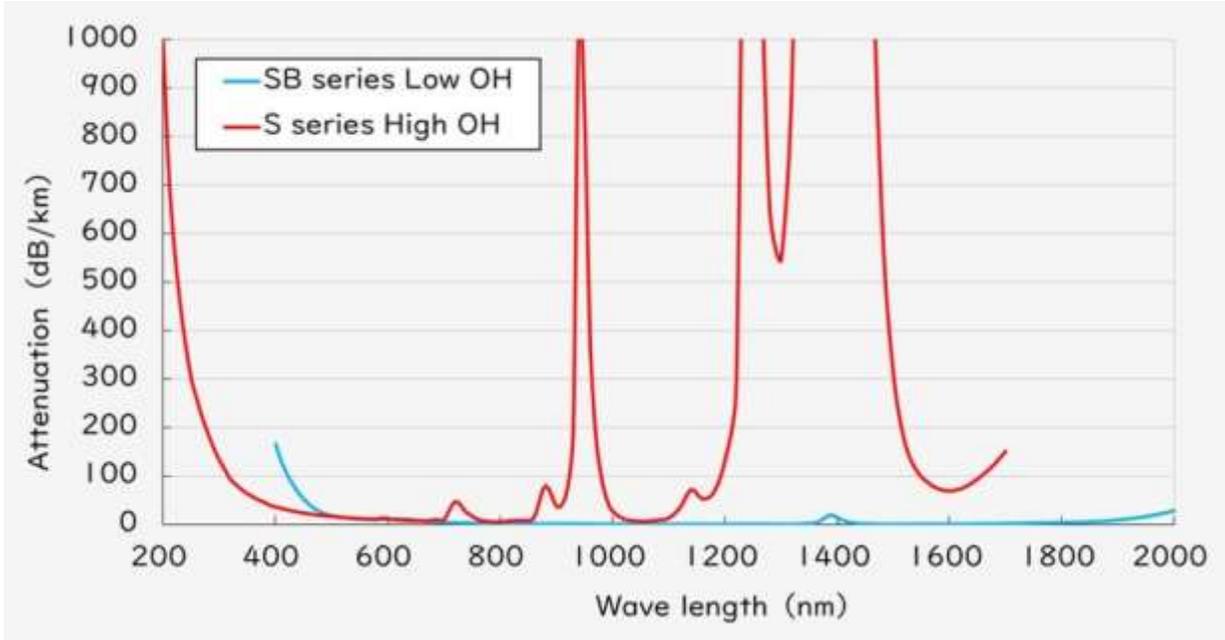
- High Energy Density Optical Transmission
- Excellent optical transmission characteristics over a wide wavelength range
- Mechanical Strength
- UV Resistance

Specifications

Description	S.200/220	S.400/440	S.600/660	S.800/880	S.1000/1100
Core Diameter (μm)	200 ± 10	400 ± 20	600 ± 30	800 ± 40	1,000 ± 50
Cladding Diameter (μm)	220 ± 11	440 ± 22	660 ± 33	880 ± 44	1,100 ± 55
Jacket Diameter (μm)	900 ± 100	1,100 ± 100	1,400 ± 100	1,700 ± 100	2,000 ± 200
Minimum Bending Radius (mm)	44	88	132	176	220
Refractive Index Profile	SI				
Core / Cladding Material	SiO ₂ (High-OH) / F- SiO ₂				
Attenuation (dB/km)	≤ 10 (@800nm) as nominal value ≤ 200 (@300nm)				
Coating / Jacket Material	Silicone / Polyamide				
NA	0.22 ± 0.02				
Operation Temperature (°C)	-20 - 60				
Jacket Color	Black				
Cross-section image					



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Large Core SB series Low OH

Fujikura large core fibers are made of silica glass and thus have high power transmission. This product has excellent optical transmission properties over a wide wavelength range from visible to NIR, so it's widely applied in fields related to require high output optical energy, such as laser processing and laser therapy, as well as in spectroscopic analysis and optical sensing.

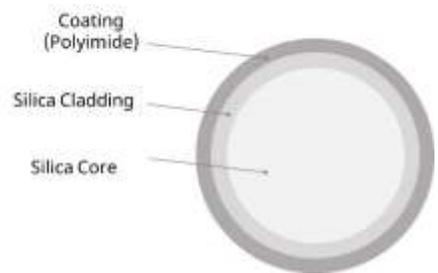
Please contact us about FEP, PFA, and other types of coatings. Polyimide (PI) coated large core fibers are also available as a high heat resistant type. FJK is able to manufacture various types of large core fibers according to customer specifications, from design and prototyping to mass production.



Features

- High power transmission
- Excellent optical transmission properties over a wide wavelength range
- Good mechanical Strength

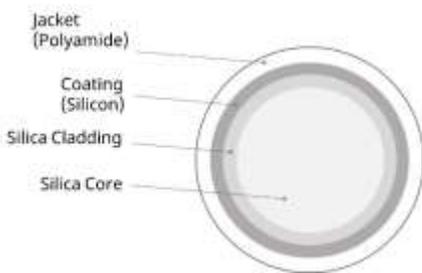
Specifications (SB series Low OH: Polyimide)

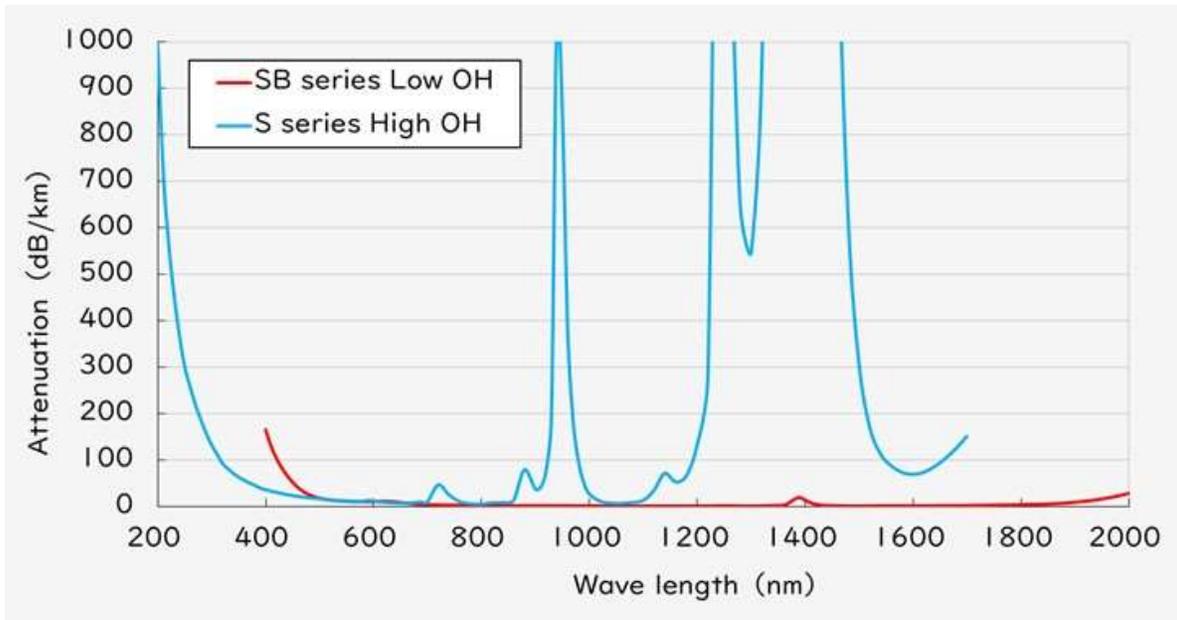
Description	S.200/220BPI	S.300/330BPI	S.400/440BPI
Core Diameter (μm)	200 ± 10	300 ± 15	400 ± 20
Cladding Diameter (μm)	220 ± 11	330 ± 16.5	440 ± 22
Jacket Diameter (μm)	245 ± 5	360 ± 10.8	470 ± 14
Minimum Bending Radius (mm)	44	66	88
Refractive Index Profile	SI		
Core / Cladding Material	SiO ₂ (Low OH) / F- SiO ₂		
Attenuation (dB/km)	≤ 10 (@850nm)		
Coating Material	Polyimide		
NA	0.22 ± 0.02		
Operation Temperature (°C)	-40 - 300		
Cross-section image			



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Specifications (SB series Low OH: Silicon / Polyamide)

	S.200/220B	S.400/440B	S.600/660B	S.800/880B	S.1000/1100B
Core Diameter (μm)	200 ± 10	400 ± 20	600 ± 30	800 ± 40	1,000 ± 50
Cladding Diameter (μm)	220 ± 11	440 ± 22	660 ± 33	880 ± 44	1,100 ± 55
Jacket Diameter (μm)	900 ± 100	1,100 ± 100	1,400 ± 100	1,700 ± 100	2,000 ± 200
Minimum Bending Radius (mm)	44	88	132	176	220
Refractive Index Profile	SI				
Core / Cladding Material	SiO ₂ (Low OH) / F- SiO ₂				
Attenuation (dB/km)	≤ 10 (@800nm)				
Coating / Jacket Material	Silicone / Polyamide				
NA	0.22 ± 0.02				
Operation Temperature (°C)	-20 - 60				
Jacket Color	White				
Cross-section image					



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Large Core G series

Fujikura large core fibers are made of silica glass and thus have high power transmission. This product has excellent optical transmission power over a wide wavelength range from visible to NIR.

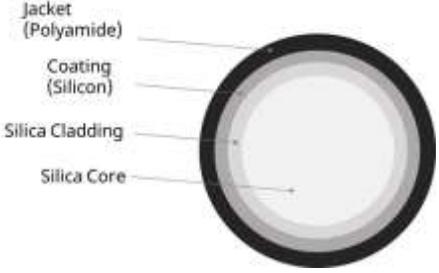
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Features

- High power transmission
- Good mechanical Strength

Specifications

Description	G.200/250	G.400/500	G.600/750	G.800/1000
Core Diameter (μm)	200 ± 10	400 ± 20	600 ± 30	800 ± 40
Cladding Diameter (μm)	250 ± 12.5	500 ± 25	750 ± 37.5	1,000 ± 50
Jacket Diameter (μm)	900 ± 100	1,100 ± 100	1,400 ± 100	1,700 ± 100
Minimum Bending Radius (mm)	50	100	150	200
Refractive Index Profile	GI			
Core / Cladding Material	GeO ₂ - SiO ₂ / SiO ₂			
Coating / Jacket Material	Silicone / Polyamide			
NA	0.21 ± 0.02			
Operation Temperature (°C)	-20 - 60			
Jacket Color	Black			
Cross-section image				



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