

## 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.

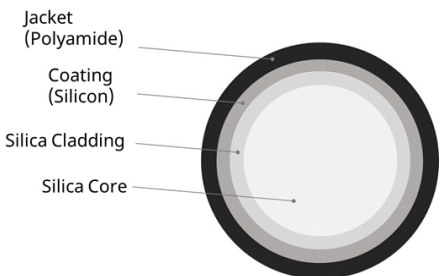
Please contact us about FEP, PFA, and other types of coatings.  
Polyimide (PI) coated large core fibers are also available as a high heat resistant type.  
FJK is able to manufacture various types of large core fibers according to customer specifications, from design and prototyping to mass production.



### Features

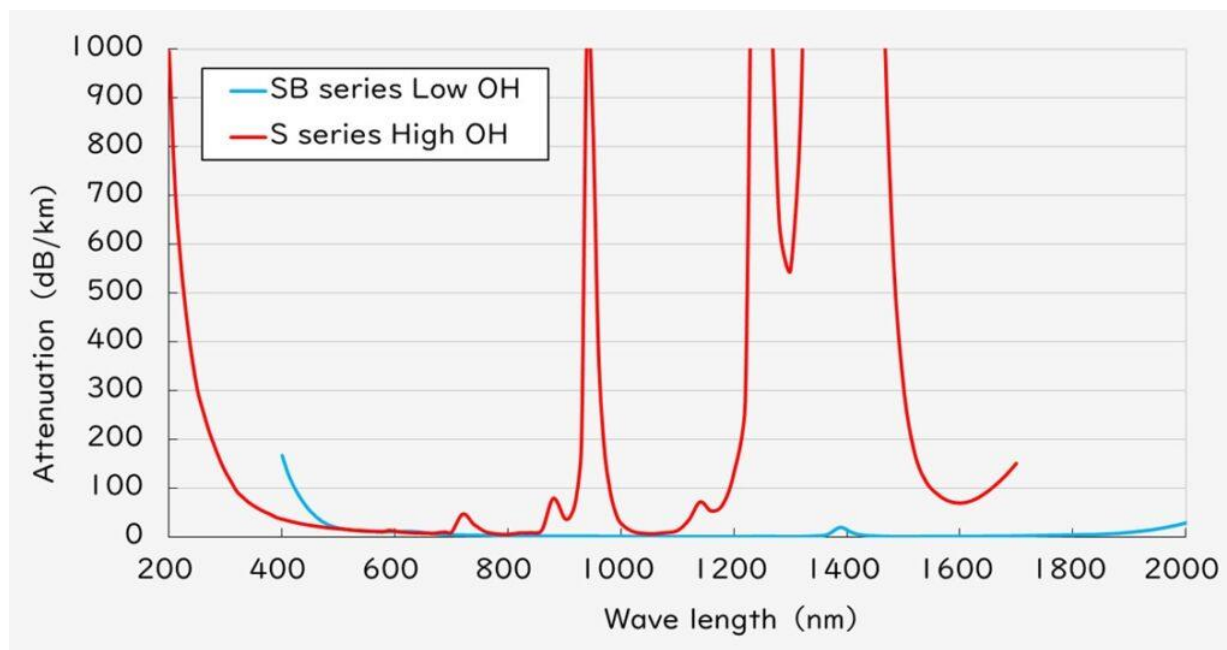
- High Energy Density Optical Transmission
- Excellent optical transmission characteristics over a wide wavelength range
- Mechanical Strength
- UV Resistance

### 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 <sub>2</sub> (High-OH) / F- SiO <sub>2</sub>                                     |             |             |             |             |
| 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.

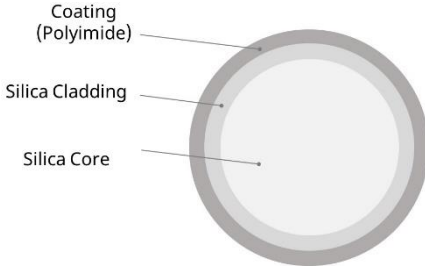
Please contact us about FEP, PFA, and other types of coatings. Polyimide (PI) coated large core fibers are also available as a high heat resistant type. FJK is able to manufacture various types of large core fibers according to customer specifications, from design and prototyping to mass production.



### Features

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

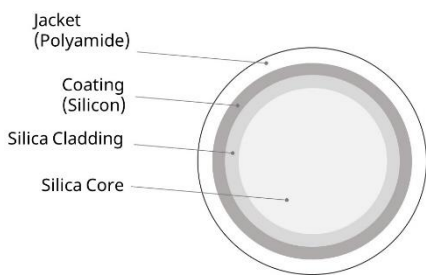
### Specifications (SB series Low OH: Polyimide)

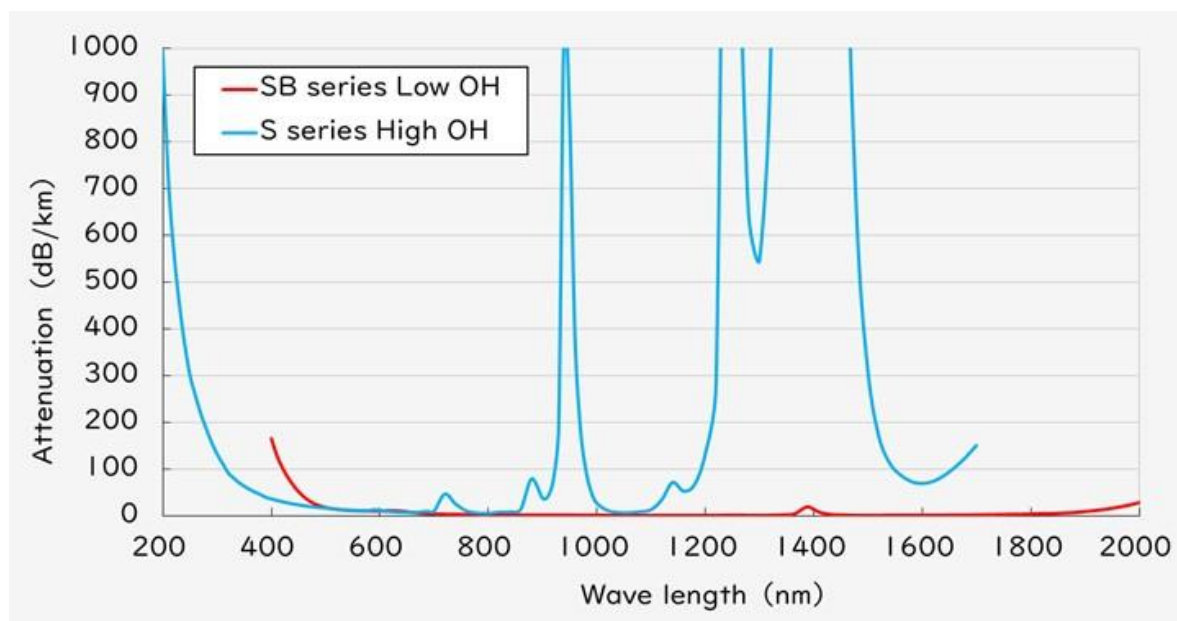
| Description                 | S.200/220BPI                                                                        | S.300/330BPI | S.400/440BPI |
|-----------------------------|-------------------------------------------------------------------------------------|--------------|--------------|
| Core 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 <sub>2</sub> (Low OH) / F- SiO <sub>2</sub>                                     |              |              |
| 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 <sub>2</sub> (Low OH) / F- SiO <sub>2</sub>                                     |             |             |             |              |
| 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.

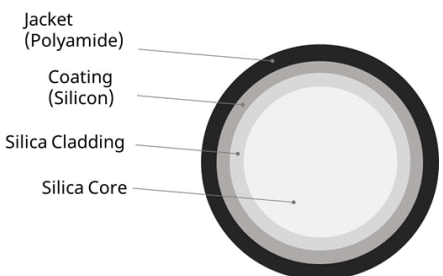
Please contact us about FEP, PFA, and other types of coatings. Polyimide (PI) coated large core fibers are also available as a high heat resistant type. FJK is able to manufacture various types of large core fibers according to customer specifications, from design and prototyping to mass production.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



### 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 <sub>2</sub> -SiO <sub>2</sub> / SiO <sub>2</sub>                                |             |             |             |
| 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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