Specialty Fibers Select Sheet

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The items listed in this sheets are standard configurations and sizes. Other configurations may be available on request. Please let us know what we can do to help satisfy your project requirements.





Large Core Fiber (Jacketed) Select Sheet

S series (for UV-VIS)

Model Name	Refractive Index Profile	Core / Cladding Material	Core / Cladding Diameter [μ m]	Jacket Diameter [μm]	Attenuation [dB/km]	Coating/ Jacket Material	NA	Operation Temperature [°C]	Minimum Bending Radius [mm]
S.200/220		SiO ₂ (High-OH) /F-SiO ₂	200 / 220	900	≦10 (@800nm) as nominal value ≤200 (@300nm)	Silicone/ Polyamide		-20 to 60	44
S.400/440			400 / 440	1100			0.22		88
S.600/660	Step Index		600 / 660	1400					132
S.800/880			800 / 880	1700					176
S.1000/1100			1000 /1100	2000					220

SB series (for VIS-NIR)

Model Name	Refractive Index Profile	Core / Cladding Material	Core / Cladding Diameter [μ m]	Jacket Diameter [μm]	Attenuation [dB/km]	Coating/ Jacket Material	NA	Operation Temperature [°C]	Minimum Bending Radius [mm]
S.200/220B		SiO2 (Low-OH) /F-SiO2	200 / 220	900	≤ 10 (@850nm) as nominal value $ ≤ 10 $ (@1064nm)	Silicone/ Polyamide	0.22	-20 to 60	44
S.400/440B			400 / 440	1100					88
S.600/660B	Step Index		600 / 660	1400					132
S.800/880B			800 / 880	1700					176
S.1000/1100B			1000 /1100	2000					220

G series (for VIS-NIR)

Model Name	Refractive Index Profile	Core / Cladding Material	Core / Cladding Diameter [μ m]	Jacket Diameter [μm]	Attenuation [dB/km]	Coating/ Jacket Material	NA	Operation Temperature [°C]	Minimum Bending Radius [mm]
G.200/250		GeO ₂ -SiO ₂ /SiO ₂	200 / 250	900	≦10 (@850nm)	Silicone/ Poly amide	0.21	-20 to 60	50
G.400/500	Graded		400 / 500	1100					100
G.600/750	Index		600 / 750	1400					150
G.800/1000			800 / 1000	1700					200

- Other size (Core Diameter, Cladding Diameter) may be available
- Jacket color (Polyamide: Standard)

S series and G series: Black / SB series: White

- Tolerance : Core diameter and Cladding diameter : $\pm 5\%$

Jacket diameter : ± 100 μm (Core diameter 200 \sim 800μm)

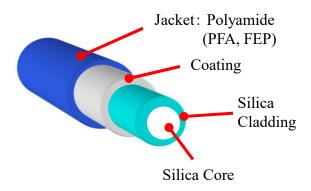
±200μm (Core diameter 1000μm)

 $NA: \pm 0.02$

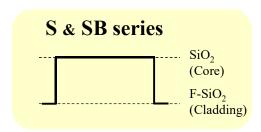
- Please contact us for customized products
- PFA, FEP, Jacketed Fibers are available

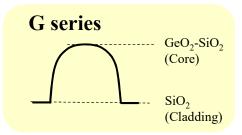


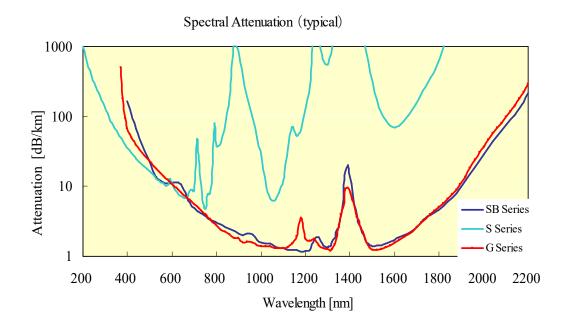
Jacketed Fiber Structure



Refractive Index Profile







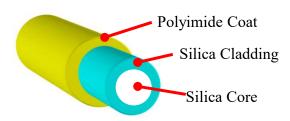


PI Coated Fiber Select Sheet

Large Core Fiber: SB series (for VIS-NIR)

Model Name	Refractive Index Profile	Core / Cladding Material	Core / Cladding Diameter [μm]	Coating Diameter [μm]	Attenuation [dB/km]	Coating Material	NA	Operation Temperature [°C]	Minimum Bending Radius [mm]
S.200/220BPI		SiO ₂ (Low-OH)/ F-SiO ₂	200 / 220	245	≦10 (@850nm)	Poly imide	0.22	-40 to 300	44
S.300/330BPI	Step Index		300 / 330	360					66
S.400/440BPI			400 / 440	470					88

Fiber Structure



• Tolerance : Core diameter and Cladding diameter : $\pm 5\%$

Coating diameter: $\pm 5\mu m$ (Core diameter 200 μm)

 $\pm 10.8 \mu m$ (Core diameter 300 μm)

 $\pm 14 \mu m$ (Core diameter 400 μm)

 $NA : \pm 0.02$

Notes

- The values in these tables are nominal values.
- •The dimensions (core/cladding diameter, jacket/coating diameter of fiber) are measured in sampling.
- Minimum Bending Radius is the recommended value for long term.
- The dimensions (core/cladding diameter, jacket/coating diameter of fiber), attenuation, NA (Numerical Aperture) and length are described on the test report.
- · Operation temperature is guaranteed by design, and attenuation is measured at room temperature.
- NA value is calculated by the data from preform analyzer.
- Our products supports RoHS Directive.
- Please contact us for customized products.
- Other size (Core Diameter, Cladding Diameter) may be available.

Warranty

- Warranty period is one year after shipment. Once the fiber is drawn out from package or bobbin, we cannot guarantee all of performance.
- If you have any doubts about the contents of this specification and any matter not stated in this specification, we will consult with you separately.