

SOMTA, Ltd.

Experts in fiberoptics technologies and applications

SPECIFICATIONS		
Bundled Optical Fiber Type	A	WF polyimide coated quartz/quartz fiber
	B	UV polyimide coated quartz/quartz fiber
	C	WF PCS fiber
	D	UV PCS fiber
Numerical Aperture, $\pm 10\%$	Types A and B	0.22
	Types C and D	0.36
Spectral range	Types A	350 to 2400 nm
	Types B	180 to 1100 nm
	Types C	350 to 2200 nm
	Types D	220 to 1100 nm
Temperature ranges:	Type of the ferrule:	
- along the edge	I	-60° C to +1000° C
	II	-60° C to +200° C
	III	-40° C to +120° C
	IV	-40° C to +260° C
- along the bundle	Type of the sheathing:	
	- PVC tube	-20° C to +80° C
	- stainless steel jacket	-60° C to +380° C
	- silicone resin tube	-60° C to +200° C
	Optical fiber types:	
	A and B	-70° C to +380° C
	C and D	-60° C to +200° C
Other characteristics	Types A and C	Weak fluorescence at 254 nm excitation; some darkening under gamma- or X- ray irradiation
	Types B and D	No fluorescence at 254 nm excitation; no discoloration under gamma- or X- ray or VUV radiation

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