

SGS

SGS is a halogen-free silicone coated heat treated glass braided sleeve with a continuous operating temperature from -70°C to $+235^{\circ}\text{C}$. It withstands short-term peaks up to 300°C , is a class 200 insulating sleeve and available in several voltage grades. It is supplied in sizes up to 20mm as standard.

This extremely flexible, silicone rubber coated fibreglass braided jacket is self-extinguishing to VW-1 and offers excellent resistance to oils, fluids and many chemicals. Its thermal and electrical insulating properties make it ideal for applications operating at high temperature with thermal overcharges such as incandescent lamps and domestic appliances. It is also frequently used in wire harnesses, transformer leads, power supplies, motor coil and heater leads. We also supply knitted silicone coated sleeving on enquiry.

Technical Data

- **Operating Temperature** -40°C to $+235^{\circ}\text{C}$
- **Flame Retardant:** Self extinguishing VW-1
- **Colours:** Black, White, Red-Brown, Other colours available upon request
- **Sizes:** 0.5mm to 20mm
- **Packing:** Reels, cut to length, cut sleeves
- **Approvals:** IEC 60684-3, UL approval, RoHS Compliant
- **Applications / Industries:** General, Commercial, Electrical, Electronics, Industrial, Automotive



Properties	Typical Values	Test Methods
General		
Operating Temperature	-40°C – $+235^{\circ}\text{C}$	
Short-term peak temperature	$300^{\circ}\text{C}+$	
Physical		
Mechanical resistance	Good abrasion resistance	
Thermal		
Flammability	Self extinguishes, halogen-free	IEC 60684 Pt2 Cl26 meth. B, UL 1441
Thermal Classification	Class 200	
Heat shock (4hrs)	7 days at 265°C , 60 days @ 235°C no visible cracking, or detachment or discolouration of coating	UL 1441
Low temperature flexibility (4hrs @ -55°C)	at -40°C , no visible cracking or detachment of coating	IEC 60684 Pt 2 Cl 14
Electrical		
Dielectric strength	2.5, 4.0 & 7.5kV	
Chemical		
Chemical resistance	Compatible with most insulating varnishes and transformer oils	

Size (mm)	Supplied diameter (mm)	Nominal wall thickness (mm)
0.5	0.5	0.20
0.8	0.8	0.20
1	1.0	0.30
1.5	1.5	0.30
2	2.0	0.30
2.5	2.5	0.30
3	3.0	0.30
3.5	3.5	0.30
4	4.0	0.30
4.5	4.5	0.40
5	5.0	0.40
6	6.0	0.40
7	7.0	0.40
8	8.0	0.45
9	9.0	0.45
10	10.0	0.45
11	11.0	0.45
12	12.0	0.45
13	13.0	0.60
14	14.0	0.60
15	15.0	0.60
16	16.0	0.60
18	18.0	0.60
20	20.0	0.90

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