



SGS-X

SGS-X is a halogen-free expandable braided fibreglass sleeve impregnated with silicone varnish. It has an operating temperature of -70°C to +300°C and withstands short-term peaks up to 450°C. It is UL approved and available in several colours and sizes up to 50mm supplied diameter as standard.

SGS-X is flexible, fray resistant, and compatible with most impregnating varnish systems. Thanks to its thermal and electrical insulating properties and the mechanical protection offered, it is often used in heaters as well as harnesses and hydraulic/ fuel conduits which are subjected to high temperatures. The primary difference between this fibreglass sleeve and our standard silicone coated jacket is its ability to expand to over twice its supplied diameter. This allows for ease of assembly especially over sets of wire of differing diameters. It also ensures a snug fit on components which vary in size.

Properties	Typical Values	
GENERAL		
Operating temperature	IEC 60684-3, UL approval, RoHS Compliant	
Short-term peak temperature	450°C	
PHYSICAL		
Mechanical resistance	Excellent abrasion resistance	
THERMAL		
Flammability	Will not ignite	IEC 60684 Pt2 Cl26 meth. B, UL 1441 VW-1
Low temperature flexibility (4hrs @ -55°C)	at -70°C, no cracking after bending	IEC 60684 Pt 2 Cl 14
Limited Oxygen Index	64.5%	UNE EN ISO 4589
ELECTRICAL		
Electrical resistance	Excellent resistance to solvents, compatible with most insulating varnishes	UL
CHEMICAL		
Toxicity	ITC 4.08	NF X 70 – 100
Smoke Density	VOF4=3.2, Dmax=3	NF X 10 – 102
Smoke Index	IF 2.2	NF X 16 – 101

TECHNICAL DATA

- **OPERATING TEMPERATURE**
-70°C~+300°C
- **COLOURS**
White, Black, Yellow
- **SIZES**
4mm – 50mm
- **PACKING**
Reels, cut to length, cut sleeves
- **APPROVALS**
IEC 60684-3, UL approval, RoHS Compliant
- **APPLICATIONS / INDUSTRIES**
General, Commercial, Electrical, Electronics, Industrial, Automotive

Size (mm)	Nominal wall thickness (mm)	Application range (mm)
4	0.85	4 – 9
6	0.85	6 – 16
8	0.85	8 – 20
10	0.85	10 – 22
12	0.85	12 – 28
14	0.85	14 – 35
16	0.85	16 – 40
20	0.85	20 – 55
25	0.85	25 – 65
30	0.85	30 – 75
40	0.85	40 – 90
50	0.85	50 – 120

Printasleeve Ltd is as diligent as possible in compiling and updating the above information. It reflects averages derived from product sample testing, is subject to normal manufacturing and testing tolerances and may be changed without notice. Furthermore aesthetic and textural style differences can result in local variation. For specific or further information concerning our products, their specifications and their utilisation please contact us.