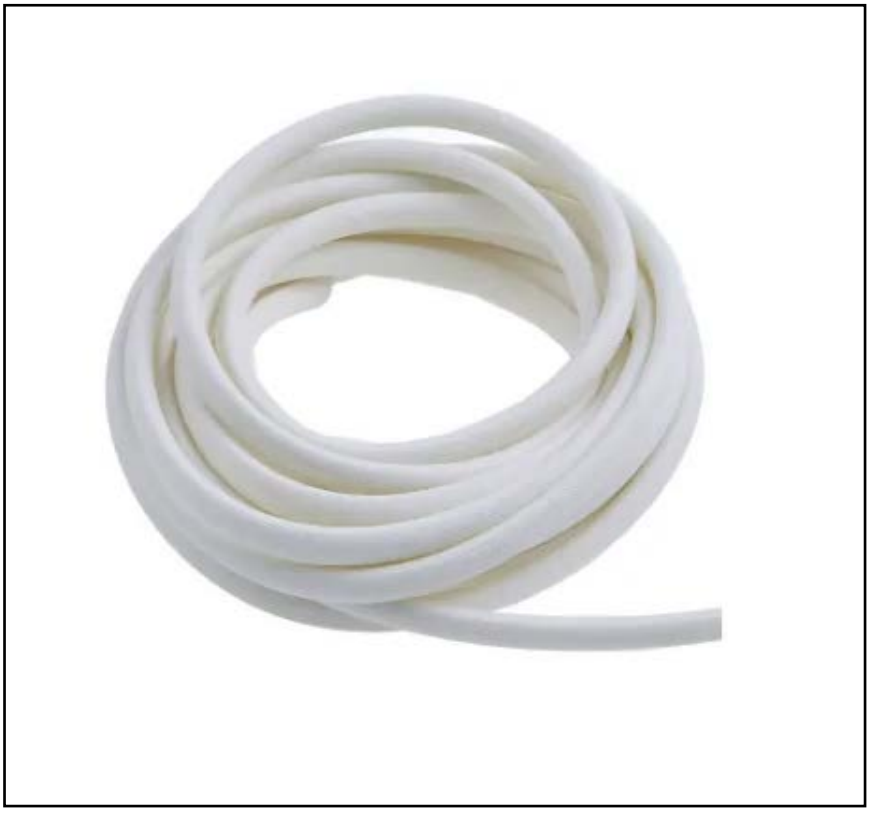
FEATURES

- Excellent high temperature resistance
- LSZH (Low Smoke Zero Halogen)
- Self-Extinguishing
- Highly flexible
- Excellent resistance to solvents
- Good fray resistance when it is cut
- High oxygen index
- Compatible with most impregnating varnish systems

RS PRO Braided Fibreglass Natural Cable Sleeve, 6mm Diameter, 5m Length

RS Stock No.: 668-1245



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

From RS PRO a high quality highly flexible braided fibreglass cable sleeving or cable tubing impregnated with a silicone varnish. This highly resilient cable sleeving has high-temperature capabilities of up to 300°C and is self-extinguishing and LSZH (Low Smoke Zero Halogen) which means it does not release dangerous gasses when it burns. These unique qualities make this braided cable sleeve ideal for use in electrical insulation applications where there are high operating temperatures. This cable sleeve is easy to apply by simply routing your cables and wires through the inside. The excellent flexibility of this sleeving means it can bend around a diameter less than 10 times its bore without flattening.

General Specifications

Material	Fibreglass
Colour	Natural
Braided	Yes
Expandable	No
Fire Behaviour	Halogen Free; Self-extinguishing
Applications	Laboratories, Chemical processing, Appliance manufacturing, Medical and pharmaceutical, Automotive and marine applications, Building and construction industry, Food and beverage industries

Mechanical Specifications

Sleeve Diameter	6mm
Sleeve Length	5m
Wall Thickness	0.35mm
Minimum Cable Diameter	6mm

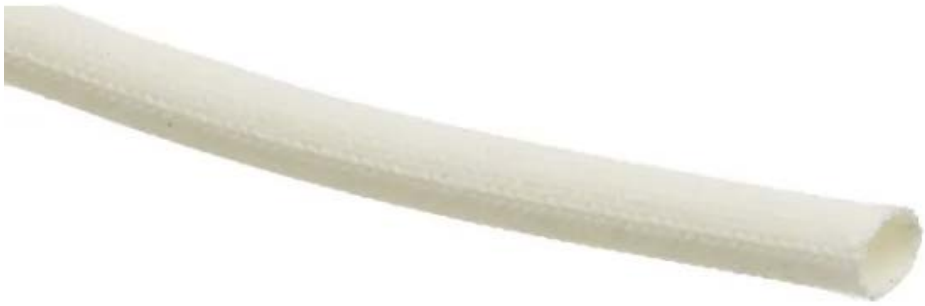
Property	Test Method	Typical Value
Dielectric Strength	-	1kV/mm

Operation Environment Specifications

Operating Temperature Range	-40°C to 300°C
Minimum Operating Temperature	-40°C
Maximum Operating Temperature	300°C

Approvals

Compliance/Certifications	RoHS
Standards Met	IEC 60684, RoHS Compliant, UL 1441, UL E151092



TECHNICAL TABLE

PROPERTY	TEST	RESULT
THERMAL OVERCHARGE AND AGEING RESISTANCE	Simulation of real operating conditions	10 days at +350°C
HEAT RESISTANCE	Bending after heating IEC 60684 Part 2 Clause 13, 48 hours at +400°C	No cracking. Silicone varnish will burn off.
CHEMICAL RESISTANCE	Simulation of real operating conditions	Excellent resistance to solvents. Compatible with most insulating varnishes
FLAMMABILITY	Flame propagation: IEC 60684 Part 2 Clause 26 Method B vertical wire. Flame test: UL 1441 VW-1 vertical with wire	Will not ignite Will not ignite
ABRASION RESISTANCE	SEA ARP 1536	Minimum 4.000 cycles (Ø=20mm)
COLD RESISTANCE	Bending at low temperature IEC 60684-Part 2 Clause 14	No cracking after bending at -70°C
OXYGEN INDEX (I.O.)	UNE EN ISO 4589	10 = 64,5%
TOXICITY	NF X 70-100	ITC = 4,08
SMOKE DENSITY	NF X 10-702 (Test conduced in flame mode)	V0F4 = 3,2 Dmax = 3
SMOKE INDEX	NF F 16-101	IF = 2,2
FIRE BEHAVIOUR	EN 45545 – 2 - 2013	R22&R23: Hazard level HL1, HL2, HL3

DIMENSIONS		
Nominal Bore (mm)	Bore Tolerance (mm)	Minimum Wall Thickness (mm)
0.5	+0.20	0.20
1.0	+0.20	0.25
1.5	+0.20	0.25
2.0	+0.20	0.25
2.5	+0.20	0.25
3.0	+0.20	0.25
3.5	+0.30	0.25
4.0	+0.30	0.30
4.5	+0.30	0.30
5.0	+0.30	0.30
6.0	+0.30	0.30
7.0	+0.30	0.30
8.0	+0.0	0.30
9.0	+0.50	0.30
10.0	+0.50	0.30
12.0	+0.50	0.45
14.0	+0.50	0.45
16.0	+1.0	0.45
18.0	+1.0	0.55
20.0	+1.0	0.55
22.0	+1.0	0.60
25.0	+1.0	0.60