WCW® WAHCHANGWEI

DS-SRS-2026-01
Rev. 2026-10
UL File No. E233803

Silicone Rubber Fiberglass Sleeving — Grade SRS

Inside Fiber / Outside Rubber

Technical datasheet · WCW (Shenzhen Wahchangwei Industrial Co., Ltd.)

Construction (inside fiber / outside rubber): braided from alkali-free (E) fiberglass yarn, then coated with silicone rubber on the outer surface. Compared with resin-coated constructions, the rubber coating gives superior tear strength and flexibility. Available in all standard sizes, colors and voltage classes; custom constructions such as an added outer PET or fiberglass braid on request.

1 · Ratings & UL Recognition

MODEL / UL FILE NO.	TEST STD.	FLAME	TEMP. RATING	AVG. WITHSTAND	MIN. INDIVIDUAL
SRS-40 · E233803	UL 1441	UL VW-1	−60 °C to +200 °C	4000 V	2500 V
SRS-70 · E233803	UL 1441	UL VW-1	−60 °C to +200 °C	7000 V	5000 V

Dielectric values measured per UL 1441. “Min. Individual” is the minimum acceptable single-tube reading.

2 · Performance Parameters

TEST ITEM	REQUIREMENT / RESULT
Continuous service temperature range	−60 °C to +200 °C
Heat resistance	265 °C ± 2 °C × 168 h — retains more than 1/2 of the original voltage value
Thermal aging	260 °C × 6 h — no cracking
Cold bending	No cracking
Flame rating (UL VW-1 burning time)	< 30 seconds
Hydrolysis stability	No stickiness, no deformation, no softening

3 · Dimensions

INNER DIAMETER		WALL THICKNESS	
NOMINAL	TOLERANCE	4000 V	7000 V
0.5 – 2.0 mm	+0.20 / −0.00 mm	0.40 ± 0.05 mm	0.45 ± 0.05 mm
2.5 – 3.0 mm	+0.25 / −0.00 mm	0.40 ± 0.05 mm	0.50 ± 0.05 mm
3.5 – 5.0 mm	+0.35 / −0.00 mm	0.50 ± 0.05 mm	0.55 ± 0.05 mm
6.0 – 9.0 mm	+0.50 / −0.00 mm	0.55 ± 0.05 mm	0.60 ± 0.05 mm
10.0 – 12.0 mm	+0.70 / −0.00 mm	0.60 ± 0.05 mm	0.65 ± 0.05 mm
13.0 – 20.0 mm	+0.80 / −0.00 mm	0.65 ± 0.05 mm	0.70 ± 0.05 mm
22.0 – 35.0 mm	+0.90 / −0.00 mm	1.00 ± 0.05 mm	1.50 ± 0.05 mm

Standard color: white; other colors available on request. Custom cut lengths and custom constructions quoted on request.

4 · Typical Applications

EV drive motors and generators, marine motors, automotive sensors, transformer and coil lead insulation, home appliances, specialty lighting — wherever a flexible, tear-resistant, flame-rated Class-200 sleeve is required. The rubber-coated surface tolerates repeated flexing and abrasion better than resin-coated grades.

5 · Compliance & Documents

UL recognition	UL 1441 — File No. E233803 (SRS-12 / SRS-15 / SRS-25 / SRS-40). Certificate E233803-2016-05-26 lists these four SRS grades; other SRS sizes are manufactured to the same construction under our quality system.
Flame rating	UL VW-1
Quality system	ISO 9001:2015 · IATF 16949:2016 · ISO 14001:2015 · ISO 45001:2018
On request	RoHS, REACH SVHC, halogen-free statements; certificate copies for supplier qualification and PPAP

WCW · Shenzhen Wahchangwei Industrial Co., Ltd. — source manufacturer since 2002. UL / CUL certified since 2003, IATF 16949:2016, exporting to 60+ countries.
Your contact: **Liming Wu (Andy)**, Sales Manager · Email wcw-sz@szwcw.com · Tel / WhatsApp +86 150 1354 6673 · HQ: No.25 Langbei Village, 6th Industry Area, Tongde Community, Baolong Street, Longgang, Shenzhen 518116, China.
Data believed accurate as of the revision date; confirm critical values against the current UL file and your own qualification testing.