

Silicone Rubber Fiberglass Sleeving — Grade SRG

Inside Rubber / Outside Fiber

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

Construction (inside rubber / outside fiber): extruded silicone rubber tube, over-braided with alkali-free (E) fiberglass yarn and finished with silicone resin. The soft rubber inner wall fits closely over irregular shapes; the outer fiberglass braid adds abrasion and mechanical protection. Available in all standard sizes, colors and voltage classes; custom constructions on request.

1 · Ratings & UL Recognition

MODEL / UL FILE NO.	TEST STD.	FLAME	TEMP. RATING	AVG. WITHSTAND	MIN. INDIVIDUAL
SRG-70 · E233803	UL 1441	UL VW-1	−10 °C to +200 °C	7000 V	6000 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	−10 °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
Horizontal burning	< 30 seconds
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	7000 V
1.0 – 2.5 mm	+0.20 / –0.00 mm	0.60 ± 0.05 mm
3.0 – 5.0 mm	+0.30 / –0.00 mm	0.70 ± 0.05 mm
6.0 – 7.0 mm	+0.35 / –0.00 mm	0.75 ± 0.05 mm
8.0 – 9.0 mm	+0.40 / –0.00 mm	0.80 ± 0.05 mm
10.0 – 12.0 mm	+0.50 / –0.00 mm	0.90 ± 0.05 mm
13.0 – 25.0 mm	+0.65 / –0.00 mm	1.30 ± 0.05 mm

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

4 · Typical Applications

Appliance thermostats and heating elements, welding robots and high-temperature automation, high-voltage harnesses, transformer and coil lead insulation, marine and specialty lighting — wherever the lead must be protected mechanically as well as electrically. The braided outer surface resists abrasion in moving or bundled wiring.

5 · Compliance & Documents

UL recognition	UL 1441 — File No. E233803 (SRG-70)
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

6th Industrial Area, Baolong Street, Longgang, Shenzhen 518111, China.

Data believed accurate as of the revision date; confirm critical values against the current UL file and your own qualification testing.