



High-temperature wires & cables

SF-2 / SFF-2 / SEW-2 / SEWF-2

Silicone Fiberglass Fixture Wire (UL SF-2 / SFF-2 & CSA SEW-2)

600 V 150 °C / 200 °C silicone-insulated fiberglass-braided luminaire & oven wire



UL 66 SF-2 / SFF-2

CSA SEW-2 / SEWF-2

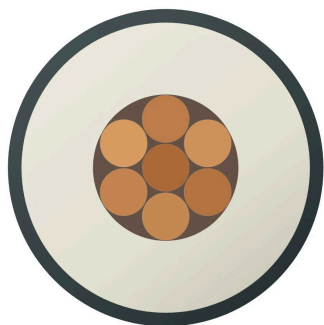
600 V · 150 / 200 °C

Application

Dual-certified 600 V high-temperature fixture and equipment wire to UL 66 (Types SF-2 200 °C & SFF-2 150 °C) and CSA C22.2 No. 49 (SEW-2 & SEWF-2), combining tinned copper conductors, extruded silicone rubber and a treated fiberglass braid.

Typical uses: High-bay, floodlight & theatrical luminaires, Commercial ovens, ranges & food warmers, Industrial drying & curing cabinets, Medical & laboratory autoclaves, Furnace & boiler control enclosures, Environmental test chambers

Construction



Cross-section, not to scale

1	Tinned annealed copper conductor	UL 66 & CSA C22.2 No. 49
2	Extruded silicone rubber insulation	UL 66 & CSA C22.2 No. 49
3	Treated E-glass fiberglass outer braid	UL 66 & CSA C22.2 No. 49

Technical data

Typical values

Rated voltage	600 V RMS across UL Types SF-2, SFF-2 and CSA Types SEW-2, SEWF-2	Dielectric & spark test	2.0 kV RMS AC dielectric test + 6.0 kV Vac in-line spark test per UL 66 / CSA C22.2 No. 49
Conductor stranding & finish	Soft annealed tinned copper per ASTM B33: solid or 7-strand on SF-2 / SEW-2 (18–10 AWG); flexible bunched stranding on SFF-2 / SEWF-2 (18–12 AWG)	Operating temperature range	–60 °C to +200 °C continuous for SF-2 & SEW-2 · –60 °C to +150 °C for flexible SFF-2 & SEWF-2
Thermal aging resilience	Cross-linked silicone core remains supple after prolonged 200 °C luminaire and oven cycling	Silicone wall & braid thickness	0.030 in (0.76 mm) extruded silicone wall on 18–14 AWG · 0.045 in (1.14 mm) on 12–10 AWG, plus 0.20–0.25 mm treated fiberglass braid
Minimum bending radius	6 × OD	Flammability & cut-through protection	UL 66 horizontal/vertical flame retardant & CSA FT1; glass braid prevents cut-through on hot sheet-metal reflectors
Ozone, UV & halogen status	Halogen-free silicone rubber core resistant to ozone, UV and thermal shock	Standards	UL 66 (Types SF-2 & SFF-2); CSA C22.2 No. 49 (Types SEW-2 & SEWF-2); NEC Article 402; CEC Part I

Sizes

9 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Type · AWG size	Temp. rating	Size AWG	CSA ≈ mm ²	Stranding (count/AWG)	Cond. Ø mm	SiR wall mm	Braid mm	Nominal OD mm	Mass ≈ kg/km	Max. DC res. (20 °C) Ω/km
UL Type SF-2 / CSA Type SEW-2 · 600 V · 200 °C · 7-Strand Tinned Copper (18–10 AWG) 5 sizes										
☐ SF-2 / SEW-2 · 18 AWG	200 °C	18 AWG	0.82	7/26	1.17	0.76	0.20	3.09	14.5	21.9
☐ SF-2 / SEW-2 · 16 AWG	200 °C	16 AWG	1.31	7/24	1.47	0.76	0.20	3.39	19.2	13.7
☐ SF-2 / SEW-2 · 14 AWG	200 °C	14 AWG	2.08	7/22	1.85	0.76	0.20	3.77	27.0	8.6
☐ SF-2 / SEW-2 · 12 AWG	200 °C	12 AWG	3.31	19/25	2.36	1.14	0.25	5.14	46.5	5.4
☐ SF-2 / SEW-2 · 10 AWG	200 °C	10 AWG	5.26	19/22	2.97	1.14	0.25	5.75	66.8	3.4
UL Type SFF-2 / CSA Type SEWF-2 · 600 V · 150 °C · Flexible Stranded Tinned Copper (18–12 AWG) 4 sizes										
☐ SFF-2 / SEWF-2 · 18 AWG	150 °C Flex	18 AWG	0.82	16/30	1.22	0.76	0.20	3.14	14.8	22.4
☐ SFF-2 / SEWF-2 · 16 AWG	150 °C Flex	16 AWG	1.31	26/30	1.50	0.76	0.20	3.42	19.6	14.0
☐ SFF-2 / SEWF-2 · 14 AWG	150 °C Flex	14 AWG	2.08	41/30	1.88	0.76	0.20	3.80	27.5	8.9
☐ SFF-2 / SEWF-2 · 12 AWG	150 °C Flex	12 AWG	3.31	65/30	2.36	1.14	0.25	5.14	47.2	5.6

– Solid conductor constructions (18–10 AWG) are also available under UL Type SF-2 and CSA Type SEW-2.

Standards and approvals

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/silicone-fiberglass-fixtue-wire



Typical values for this cable type, based on UL 66 & CSA C22.2 No. 49. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.