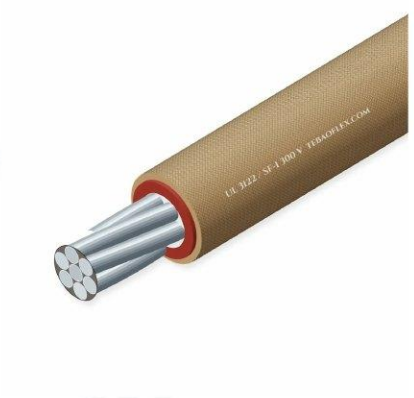
High-temperature fluoropolymer, silicone & HV wires

UL 3122 / SF-1 Wire

UL AWM 3122 (SF-1) 300 V 200 °C Silicone Fixture Wire

UL 758 Style 3122 300 V 200 °C silicone rubber with fibreglass outer braid



UL AWM Style 3122 | **300 V · +200 °C** | **Elevator Traveling**

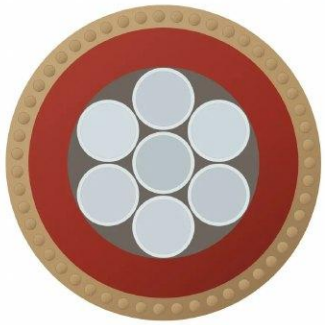
Application

UL 3122 / SF-1 300 V combines stranded tinned copper, 200 °C extruded silicone rubber insulation, and a lacquered fibreglass outer braid for commercial lighting fixtures, ovens, and North American heating appliances.

Typical uses: Industrial ovens, kilns & thermal processing, Aerospace avionics, defence & instrumentation, Steelworks, glassworks & foundry equipment, Switchgear cabinets, motors & heating appliances

Construction





Cross-section, not to scale

1	**Conductor**	ASTM B172 / B33 Class K flexible tinned annealed copper · ASTM B172 / B33
2	**Primary insulation**	200 °C extruded silicone rubber primary insulation · UL AWM Style 3122
3	**Fibreglass outer braid**	Tan lacquered fibreglass outer braid over silicone (silicone/glass) · UL VW-1 / FT2 Flame

Technical data

Typical values

Rated voltage	300 V	Test voltage	2 kV AC
Conductor	Tinned Cu · Cl.K	Insulation	200 °C extruded silicone rubber primary
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	Temp. range (fixed)	-60 °C to +200 °C
Temp. range (flexing)	-40 °C to +200 °C	Peak / short-circuit	+220 °C (short-term)
Min. bending radius	6 × OD (fixed)	Flame / fire rating	UL VW-1 / FT2 Flame
Thermal / chemical	200 °C Silicone + Glass	Mechanical / special	Abrasion-Resistant Braid
Outer finish	Tan lacquered fibreglass outer braid over		

Sizes

8 standard constructions

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

Conductor AWG	Outer Ø ≈ mm	Max. R20 Ω/km	Metal index kg/km	Weight ≈ kg/km	Min. bend R 6×D mm
☐ 1×24 AWG	1.9	94.20	2	11	11.4
☐ 1×22 AWG	2.1	59.40	3	12	13.0
☐ 1×20 AWG	2.3	36.70	5	14	14.0
☐ 1×18 AWG	2.5	23.20	7	18	15.0
☐ 1×16 AWG	2.9	14.70	12	28	17.0
☐ 1×14 AWG	3.3	9.07	19	41	20.0
☐ 1×12 AWG	3.8	5.71	30	62	23.0
☐ 1×10 AWG	4.4	3.59	48	94	26.0

- Conductor DC resistance R20 at 20 °C per ASTM B172 / B33.
- Minimum bending radius calculated at 6 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- UL AWM Style 3122
- UL 66 Type SF-1
- CSA AWM I A/B
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

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/ul-3122-sf-1-300v-200c-silicone-glass-fixture-wire

Typical values for this cable type, based on UL AWM Style 3122 · UL 66 Type SF-1 · CSA AWM I A/B. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.