High-temperature fluoropolymer, silicone & HV wires

UL 1727 600V PFA

UL AWM 1727 600 V 250 °C PFA High-Temp Hook-Up Wire

UL 758 Style 1727 600 V 250 °C heavy-wall PFA fluoropolymer lead wire

UL AWM Style 1727 | 600 V · +250 °C | Fluoropolymer HT



Application

UL 1727 250 °C 600 V PFA pairs nickel-plated copper with heavy-wall 20-mil brown extruded PFA fluoropolymer rated 600 V and 250 °C for industrial process heaters, motor leads, and foundry controls.

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 B355 Class K stranded nickel-plated annealed copper · ASTM B355 Nickel Cu
2	Extruded insulation	Brown 20-mil extruded PFA fluoropolymer insulation (250 °C) · UL AWM Style 1727

Technical data

Typical values

Rated voltage	600 V	Test voltage	2.5 kV AC
Conductor	Nickel-Plated Cu	Insulation	Brown 20-mil extruded PFA fluoropolymer
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	Temp. range (fixed)	-100 °C to +250 °C
Temp. range (flexing)	-65 °C to +250 °C	Peak / short-circuit	+300 °C (short-term)
Min. bending radius	6 × OD (fixed)	Flame / fire rating	UL VW-1 / FT1 Flame
Thermal / chemical	20-mil 600 V PFA	Mechanical / special	250 °C Continuous
Outer finish	Brown 20-mil extruded PFA fluoropolymer		

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	1.4	102.68	2	11	8.4
☐ 1×22 AWG	1.6	64.75	3	12	9.6
☐ 1×20 AWG	1.8	40.00	5	14	10.8
☐ 1×18 AWG	2.0	25.29	7	17	12.0
☐ 1×16 AWG	2.4	16.02	12	25	14.0
☐ 1×14 AWG	2.8	9.89	19	37	17.0
☐ 1×12 AWG	3.3	6.22	30	57	20.0
☐ 1×10 AWG	3.9	3.91	48	89	23.0

- Conductor DC resistance R20 at 20 °C per ASTM B355 Nickel Cu.
- Minimum bending radius calculated at 6 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- UL AWM Style 1727
- UL 758
- 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-1727-600v-250c-pfa-high-temp-hook-up-wire

Typical values for this cable type, based on UL AWM Style 1727 · UL 758 · 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.