High-temperature fluoropolymer, silicone & HV wires

UL 1180 300V PTFE

UL AWM 1180 300 V 200 °C PTFE Hook-Up Wire

UL 758 Style 1180 300 V 200 °C medium-wall PTFE equipment wire

UL AWM Style 1180 | 300 V · +200 °C | Fluoropolymer HT



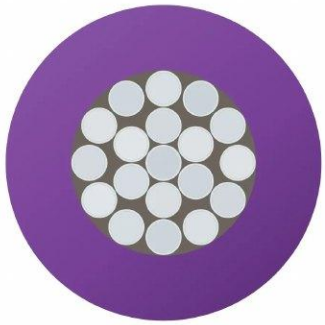
Application

UL 1180 300 V PTFE pairs silver-plated copper conductors with 15-mil extruded PTFE fluoropolymer insulation rated 300 V and 200 °C for rugged internal appliance, medical, and analytical instrument wiring.

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 B298 Class K stranded silver-plated annealed copper · ASTM B298 Silver Cu
2	Extruded insulation	Violet extruded PTFE fluoropolymer insulation (15 mil) · UL AWM Style 1180

Technical data

Typical values

Rated voltage	300 V	**Test voltage**	2 kV AC
Conductor	Silver-Plated Cu	**Insulation**	Violet extruded PTFE fluoropolymer
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-65 °C to +200 °C
Temp. range (flexing)	-55 °C to +200 °C	**Peak / short-circuit**	+220 °C (short-term)
Min. bending radius	6 × OD (fixed)	**Flame / fire rating**	UL VW-1 / FT1 Flame
Thermal / chemical	200 °C PTFE (15 mil)	**Mechanical / special**	Moisture & Solvent Proof
Outer finish	Violet extruded PTFE fluoropolymer outer		

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	94.20	2	11	8.4
☐ 1×22 AWG	1.6	59.40	3	12	9.6
☐ 1×20 AWG	1.8	36.70	5	14	10.8
☐ 1×18 AWG	2.0	23.20	7	17	12.0
☐ 1×16 AWG	2.4	14.70	12	25	14.0
☐ 1×14 AWG	2.8	9.07	19	37	17.0
☐ 1×12 AWG	3.3	5.71	30	57	20.0
☐ 1×10 AWG	3.9	3.59	48	89	23.0

- Conductor DC resistance R20 at 20 °C per ASTM B298 Silver 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 1180
- 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-1180-300v-200c-ptfe-hook-up-wire

Typical values for this cable type, based on UL AWM Style 1180 · 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.