High-temperature fluoropolymer, silicone & HV wires

UL 10086 200°C ETFE

UL AWM 10086 600 V 200 °C ETFE Hook-Up Wire

UL 758 Style 10086 600 V 200 °C ETFE fluoropolymer appliance wire

UL AWM Style 10086 | 600 V · +200 °C | Fluoropolymer HT



Application

UL 10086 200 °C ETFE pairs stranded silver/tinned copper with tough extruded ETFE fluoropolymer rated 600 V and 200 °C for internal wiring of industrial heaters, LED drivers, and semiconductor tools.

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	Extruded insulation	Red extruded ETFE fluoropolymer insulation (200 °C) · UL AWM Style 10086

Technical data

Typical values

Rated voltage	600 V	Test voltage	2 kV AC
Conductor	Tinned Cu · Cl.K	Insulation	Red extruded ETFE fluoropolymer
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	Temp. range (fixed)	-65 °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 / FT1 Flame
Thermal / chemical	200 °C ETFE Toughness	Mechanical / special	Chemical & Oil Resistant
Outer finish	Red 200 °C extruded ETFE 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	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 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 10086
- 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-10086-600v-200c-etfe-high-temp-hook-up-wire

Typical values for this cable type, based on UL AWM Style 10086 · 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.