High-temperature fluoropolymer, silicone & HV wires

UL 5196 PTFE Glass Wire

UL AWM 5196 600 V 250 °C PTFE + Glass-Braid Wire

600 V 250 °C PTFE-insulated wire with abrasion-proof fibreglass outer braid



UL AWM Style 5196 | 600 V · +250 °C | Fluoropolymer HT

Application

UL 5196 PTFE Glass Braid reinforces extruded PTFE insulation over nickel-plated copper with a high-temperature PTFE-impregnated fibreglass outer braid for severe mechanical abrasion in 250 °C industrial ovens and steelworks.

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	**Primary insulation**	Extruded PTFE fluoropolymer primary insulation · UL AWM Style 5196
3	**Fibreglass outer braid**	Off-white PTFE-impregnated fibreglass outer braid (glass/fluoro) · UL VW-1 Flame

Technical data

Typical values

Rated voltage	600 V	**Test voltage**	2.5 kV AC
Conductor	Nickel-Plated Cu	**Insulation**	Extruded PTFE fluoropolymer primary
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-65 °C to +250 °C
Temp. range (flexing)	-40 °C to +250 °C	**Peak / short-circuit**	+300 °C (short-term)
Min. bending radius	8 × OD (fixed)	**Flame / fire rating**	UL VW-1 Flame
Thermal / chemical	Fibreglass Abrasion Armour	**Mechanical / special**	250 °C Continuous
Outer finish	Off-white PTFE-impregnated fibreglass		

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 8×D mm
☐	1×24 AWG	1.9	102.68	2	11	15
☐	1×22 AWG	2.1	64.75	3	12	17
☐	1×20 AWG	2.3	40.00	5	14	18
☐	1×18 AWG	2.5	25.29	7	18	20
☐	1×16 AWG	2.9	16.02	12	28	23
☐	1×14 AWG	3.3	9.89	19	41	26
☐	1×12 AWG	3.8	6.22	30	62	30
☐	1×10 AWG	4.4	3.91	48	94	35

- Conductor DC resistance R20 at 20 °C per ASTM B355 Nickel Cu.
- Minimum bending radius calculated at 8 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- UL AWM Style 5196
- 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-5196-600v-250c-ptfe-fiberglass-braid-wire

Typical values for this cable type, based on UL AWM Style 5196 · 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.