High-temperature fluoropolymer, silicone & HV wires

UL 10475 15-40 kVDC HV Wire

UL AWM 10475 15–40 kVDC High-Voltage Silicone Wire

UL 758 Style 10475 15–40 kVDC corona-resistant HV equipment lead wire



UL AWM Style 10475 | **15–40 kV DC · +200 °C** | **Silicone HV**

Application

UL 10475 15–40 kVDC HV Wire pairs stranded tinned copper with heavy-wall white corona-resistant silicone/fluoropolymer insulation rated 15–40 kV DC and 150–200 °C for X-ray generators, lasers, and HV power supplies.

Typical uses: Industrial oil/gas burners & steam boilers, Stationary CHP gas engines & cogeneration, Automotive, motorsport & heavy-duty ignition, X-ray, laser & high-voltage DC power supplies

Construction





Cross-section, not to scale

1	**Conductor**	ASTM B172 / B33 Class K flexible tinned annealed copper · ASTM B172 / B33
2	**Extruded insulation**	Heavy-wall white corona-resistant silicone rubber HV insulation · UL AWM Style 10475

Technical data

Typical values

Rated voltage	15–40 kV DC	**Test voltage**	50 kV DC
Conductor	Tinned Cu · Cl.K	**Insulation**	Heavy-wall white corona-resistant
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-60 °C to +200 °C
Temp. range (flexing)	-40 °C to +180 °C	**Peak / short-circuit**	+220 °C (short-term)
Min. bending radius	10 × OD (fixed)	**Flame / fire rating**	Up to 40 kV DC Rated
Thermal / chemical	UL VW-1 Flame	**Mechanical / special**	Corona & Ozone Proof
Outer finish	White 15–40 kV DC corona-resistant		

Sizes

5 standard constructions

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

Conductor · DC Rating	Outer Ø ≈ mm	Max. R20 Ω/km	Metal index kg/km	Weight ≈ kg/km	Min. bend R 10×D mm
☐ 1×22 AWG (15 kV DC)	3.4	59.40	3	18	34
☐ 1×20 AWG (20 kV DC)	4.2	36.70	5	28	42
☐ 1×18 AWG (30 kV DC)	5.4	23.20	8	46	54
☐ 1×16 AWG (40 kV DC)	6.8	14.70	12	72	68
☐ 1×14 AWG (40 kV DC)	7.4	9.07	19	92	74

- Conductor DC resistance R20 at 20 °C per ASTM B172 / B33.
- Minimum bending radius calculated at 10 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- ✓ UL AWM Style 10475
- ✓ 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-10475-15-40kvdc-200c-fep-silicone-hv-wire

Typical values for this cable type, based on UL AWM Style 10475 · 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.