



High-temperature wire

UL AWM 3304 / 3573

Fiberglass-Reinforced Silicone Ignition Wire

UL 758 Style 3304 / 3573 +200 °C 10–25 kV DC silicone ignition wire with E-glass braid



UL AWM 3304 / 3573

10 to 25 kV DC

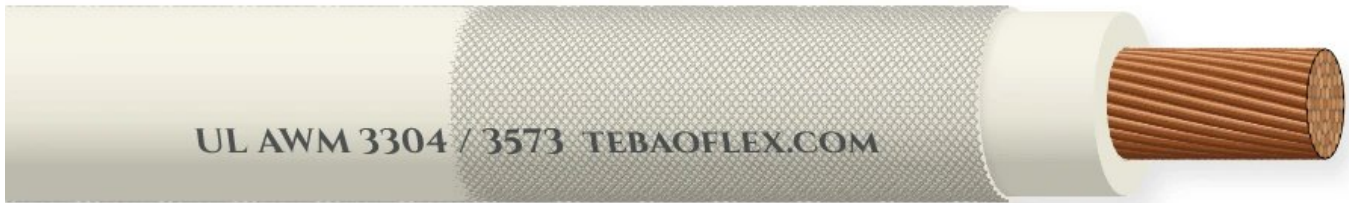
+200 °C Glass Braid

Application

UL AWM Style 3304 and Style 3573 fiberglass-reinforced high-voltage silicone ignition wire with tinned or nickel-plated copper conductors, extruded HV silicone dielectric, and a varnished E-glass braid for +200 °C burner and oven ignition.

Typical uses: Commercial Ranges & Bakery Ovens, Gas Boilers & Water Heaters, Infrared & Radiant Burners, Industrial Kilns & Dryers, Fuel-Cell & Pilot Igniters

Construction



Cross-section, not to scale

- 1 High-temperature copper conductor
- 2 Extruded HV silicone dielectric
- 3 E-glass fibre reinforcement braid
- 4 High-temperature saturant finish

Technical data

Typical values

Rated voltage (UL 3304)	10,000 V DC / 3,500 V AC rms	Rated voltage (UL 3573)	15,000 V to 25,000 V DC / 10,000 V AC
In-line spark test voltage	20 kV AC (Style 3304) · 35 kV AC (Style 3573)	Dielectric breakdown	≥ 30 kV DC (3304) · ≥ 45 kV DC (3573)
UL continuous temperature	-60 °C to +200 °C	Radiant heat peak (glass braid)	Up to +250 °C (nickel-plated copper core)
Cold bend endurance	-60 °C for 4 h without dielectric cracking	Conductor size range	22 AWG to 10 AWG (0.35 to 5.26 mm ²)
Silicone insulation wall	1.14 mm (45 mil) to 2.41 mm (95 mil)	Min. bending radius	6 × overall diameter (fixed harness)
Flame test	UL VW-1 / CSA FT1 vertical flame pass	Corona & ozone resistance	High resistance to HV corona & ozone
Cut-through & abrasion	Reinforced by saturated E-glass outer braid	Standards	UL 758 Style 3304 & Style 3573

Sizes

9 standard constructions

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

Order designation	Cross-section / size	Conductor build	Wall ≈ mm	Outer Ø ≈ mm	Metal kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard UL AWM 3304 / 3573 configurations 9 sizes							
☐ UL 3304 20 AWG (10 kV)	20 AWG (0.52 mm ²)	19×0.19 mm Ni-Cu	1.20	3.80	5.2	21.0	23
☐ UL 3304 18 AWG (10 kV)	18 AWG (0.82 mm ²)	19×0.235 mm Ni-Cu	1.20	4.10	8.2	26.0	25
☐ UL 3304 16 AWG (10 kV)	16 AWG (1.31 mm ²)	19×0.30 mm Ni-Cu	1.25	4.50	13.0	33.0	27
☐ UL 3304 14 AWG (10 kV)	14 AWG (2.08 mm ²)	19×0.37 mm Ni-Cu	1.30	5.00	20.5	44.0	30
☐ UL 3573 18 AWG (15 kV)	18 AWG (0.82 mm ²)	19×0.235 mm Ni-Cu	1.85	5.50	8.2	42.0	33
☐ UL 3573 16 AWG (15 kV)	16 AWG (1.31 mm ²)	19×0.30 mm Ni-Cu	1.85	5.80	13.0	49.0	35
☐ UL 3573 18 AWG (25 kV)	18 AWG (0.82 mm ²)	19×0.235 mm Ni-Cu	2.45	6.80	8.2	62.0	41
☐ UL 3573 16 AWG (25 kV)	16 AWG (1.31 mm ²)	19×0.30 mm Ni-Cu	2.45	7.10	13.0	70.0	43
☐ UL 3573 14 AWG (25 kV)	14 AWG (2.08 mm ²)	19×0.37 mm Ni-Cu	2.50	7.60	20.5	84.0	46

– Outer diameters and weights are nominal engineering values for UL AWM 3304 / 3573 subject to standard manufacturing tolerances per UL 758 AWM Style 3304 & Style 3573.

Electrical & rating data

9 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Primary rating (A or kV)	Derated / AC rating	Dielectric test V AC rms
UL 3304 20 AWG (10 kV) (20 AWG (0.52 mm ²))	34.60	10.0	4.0	20,000
UL 3304 18 AWG (10 kV) (18 AWG (0.82 mm ²))	21.80	10.0	4.0	20,000
UL 3304 16 AWG (10 kV) (16 AWG (1.31 mm ²))	13.70	10.0	4.0	20,000
UL 3304 14 AWG (10 kV) (14 AWG (2.08 mm ²))	8.60	10.0	4.0	20,000
UL 3573 18 AWG (15 kV) (18 AWG (0.82 mm ²))	21.80	15.0	7.0	30,000
UL 3573 16 AWG (15 kV) (16 AWG (1.31 mm ²))	13.70	15.0	7.0	30,000
UL 3573 18 AWG (25 kV) (18 AWG (0.82 mm ²))	21.80	25.0	11.0	35,000
UL 3573 16 AWG (25 kV) (16 AWG (1.31 mm ²))	13.70	25.0	11.0	35,000
UL 3573 14 AWG (25 kV) (14 AWG (2.08 mm ²))	8.60	25.0	11.0	35,000

– Electrical resistance at +20 °C and dielectric withstand voltages verified per UL 758 AWM Style 3304 & Style 3573.

Standards and approvals

- ✓ UL 758 AWM Style 3304 & Style 3573
- ✓ CE (2014/35/EU) & RoHS 3 (2015/863/EU) Compliant
- ✓ REACH SVHC & Halogen/Asbestos Compliance Verified

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

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Email

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Web

tebaoflex.com/cables/fiberglass-reinforced-silicone-ignition-wire



Typical values for this cable type, based on UL 758 AWM Style 3304 & Style 3573. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.