High-temperature mica, glass-braid & silicone cables

TGGT 250°C UL 5256/5257 Wire

TGGT 250 °C UL 5256 / 5257 600 V PTFE-Glass Wire

250 °C nickel-plated copper PTFE-tape & PTFE-saturated glass-braid wire

UL AWM Style 5256 | 600 V · +250 °C | High-Temp Mica



Application

TGGT 250 °C UL 5256 / 5257 layers PTFE fluoropolymer tapes and glass-fiber wrappings over nickel-plated copper under a white PTFE-impregnated fibreglass outer braid rated 600 V and 250 °C for harsh thermal-chemical zones.

Typical uses: Steelworks, rolling mills & aluminum smelters, Industrial ovens, ceramic kilns & glassworks, Commercial heating elements & cartridge heaters, Power plants, boiler rooms & hot switchgear

Construction





Cross-section, not to scale

1	**Conductor**	ASTM B355 Class K stranded nickel-plated copper (27% Ni high-temp) · ASTM B355 Nickel Cu
2	**Mica / PTFE tape dielectric**	Overlapping PTFE fluoropolymer & glass-fiber tape dielectric · UL AWM Style 5256
3	**Fibreglass outer braid**	Off-white PTFE-saturated fibreglass outer braid (fluoro/glass) · 250 °C Continuous TGGT

Technical data

Typical values

Rated voltage	600 V	**Test voltage**	2.5 kV AC
Conductor	Nickel-Plated Cu	**Core / dielectric**	Overlapping PTFE fluoropolymer &
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**	+250 °C (short-term)
Min. bending radius	8 × OD	**Primary performance**	250 °C Continuous TGGT
Environment / duty	UL VW-1 Flame	**Mechanical / special**	Moisture & Oil Sealed Glass
Outer finish	Off-white PTFE-saturated fibreglass 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	Copper index kg/km	Weight ≈ kg/km	Min. bend R 8×D mm
☐ 1×18 AWG	2.7	25.984	8	20	22
☐ 1×16 AWG	3.0	16.464	12	28	24
☐ 1×14 AWG	3.5	10.158	19	43	28
☐ 1×12 AWG	4.0	6.395	31	66	32
☐ 1×10 AWG	4.6	4.021	49	99	37
☐ 1×8 AWG	5.4	2.531	78	153	43
☐ 1×6 AWG	6.4	1.590	124	237	51
☐ 1×4 AWG	7.7	0.999	197	371	62

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

Standards and approvals

- UL AWM Style 5256
- UL AWM Style 5257
- 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/tggt-250c-ul-5256-5257-600v-ptfe-glass-wire

Typical values for this cable type, based on UL AWM Style 5256 · UL AWM Style 5257 · 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.