High-temperature fluoropolymer, silicone & HV wires

SAE AS22759/80

600 V 200 °C PTFE/Polyimide Wire

Composite PTFE/polyimide/PTFE tape-wrapped ultra-light aerospace wire

SAE AS22759/80 | 600 V · +200 °C | Fluoropolymer HT



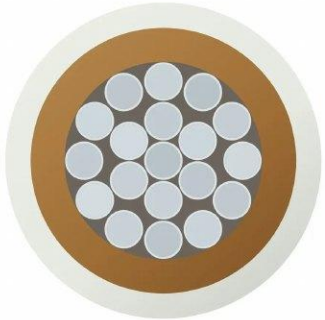
Application

SAE AS22759/80 wraps nickel-plated copper in a seamless PTFE/polyimide/PTFE composite tape rated 600 V and 200 °C, combining ultra-thin weight savings with arc-track and fluid immunity for modern aircraft.

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	Extruded insulation	Composite PTFE / polyimide / PTFE fluoropolymer tape wrap · SAE AS22759/80

Technical data

Typical values

Rated voltage	600 V	**Test voltage**	2.5 kV AC
Conductor	Nickel-Plated Cu	**Insulation**	Composite PTFE / polyimide / PTFE
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-65 °C to +200 °C
Temp. range (flexing)	-55 °C to +200 °C	**Peak / short-circuit**	+220 °C (short-term)
Min. bending radius	6 × OD (fixed)	**Flame / fire rating**	PTFE/Polyimide Composite
Thermal / chemical	Arc-Track Resistant	**Mechanical / special**	Laser-Markable White
Outer finish	White laser-markable PTFE/polyimide		

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
☐	1×28 AWG	0.9	259.42	1	9	5.4
☐	1×26 AWG	1.0	163.50	1	9	6.0
☐	1×24 AWG	1.1	102.68	2	11	6.6
☐	1×22 AWG	1.3	64.75	3	12	7.8
☐	1×20 AWG	1.5	40.00	5	14	9.0
☐	1×18 AWG	1.7	25.29	7	17	10.2
☐	1×16 AWG	2.0	16.02	12	23	12.0
☐	1×14 AWG	2.4	9.89	19	35	14.0

- Conductor DC resistance R20 at 20 °C per ASTM B355 Nickel Cu.
- Minimum bending radius calculated at 6 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- SAE AS22759/80
- MIL-W-22759/80
- BMS 13-60 (ref.)
- 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/sae-as22759-80-600v-200c-ptfe-polyimide-airframe-wire

Typical values for this cable type, based on SAE AS22759/80 · MIL-W-22759/80 · BMS 13-60 (ref.). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.