Flexible cords & appliance cables

WTA SAE J1678 60V DC Ultra-Thin Wall

SAE J1678 Type WTA · 60 V DC (60 V AC rms) · -40°C to +85°C · Min. bend 6 × OD

SAE J1678 Type WTA | 60 V DC



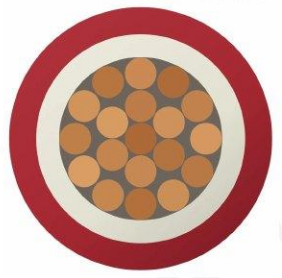
Application

WTA SAE J1678 60V DC Ultra-Thin Wall manufactured to SAE J1678 Type WTA, rated 60 V DC (60 V AC rms) and -40°C to +85°C with a 6 × OD minimum bending radius for industrial automation & manufacturing installations.

Typical uses: Power distribution & utility networks, Railways, tunnels & public infrastructure, Process instrumentation & oil/gas skids, Industrial automation & control cabinets, Renewable energy, marine & heavy industry

Construction





Cross-section, not to scale

1	Conductor	1×18 AWG (19/0.23 mm Soft-Annealed Bare Copper, Ø1.17 mm)
2	Insulation & Core Identification	SAE J1678 0.20 mm ultra-thin-wall PVC dielectric
3	Screen / Bedding / Armour Layer	0.20 mm ultra-thin-wall concentric harness dielectric profile (SAE J1678 Type WTA)
4	Outer Protective Sheath	Red SAE J1678 WTA ultra-thin-wall PVC insulation skin (OD 1.75 mm)

Technical data

Typical values

Nominal / reference voltage	60 V DC (60 V AC rms)	Conductor & core insulation	1×18 AWG (19/0.23 mm Soft-Annealed Bare Copper, Ø1.17 mm) · SAE J1678 0.20 mm ultra-thin-wall PVC dielectric
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	-40°C to +85°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	SAE J1678 Type WTA
Minimum bending radius	6 × OD	Screening / armour architecture	0.20 mm ultra-thin-wall concentric harness dielectric profile (SAE J1678 Type WTA)
Outer sheath material & colour	Red SAE J1678 WTA ultra-thin-wall PVC insulation skin (OD 1.75 mm)	Standards	SAE J1678 Type WTA

Sizes

3 standard constructions

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

Part designation	Configuration	Conductor & shield	Insulation / wall	Outer sheath	Outer diameter mm	Min. bend radius mm	Max. conductor resistance @ 20 °C Ω/km	Copper weight kg/km	Cable weight kg/km	Key electrical / optical rating
WTA SAE J1678 60V DC Ultra-Thin Wall 3 sizes										
☐ WTA SAE J1678 60V DC Ultra-Thin Wall (1×18 AWG)	1×18 AWG	Class 2 Stranded Plain Copper	SAE J1678 0.20 mm ultra-thin-wall PVC dielectric	Industrial PVC	1.8	11	21.99	11.4	22	7 A
☐ WTA SAE J1678 60V DC Ultra-Thin Wall (1×16 AWG)	1×16 AWG	Class 2 Stranded Plain Copper	SAE J1678 0.20 mm ultra-thin-wall PVC dielectric	Industrial PVC	2.1	13	13.83	15.6	30	10 A
☐ WTA SAE J1678 60V DC Ultra-Thin Wall (1×14 AWG)	1×14 AWG	Class 2 Stranded Plain Copper	SAE J1678 0.20 mm ultra-thin-wall PVC dielectric	Industrial PVC	2.4	14	8.70	21.8	42	15 A

– Dimensions and weights are nominal manufacturing targets subject to standard production tolerances.

Standards and approvals

- ✓ SAE J1678 Type WTA Compliant
- ✓ EN 10204 3.1 Factory Test Certificate
- ✓ CE, UKCA, 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/wta-sae-j1678-60v-dc-ultra-thin-wall**

Typical values for this cable type, based on Reference specification per SAE J1678 Type WTA (WTA SAE J1678 60V DC Ultra-Thin Wall). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.