High-temperature fluoropolymer, silicone & HV wires

MIL-DTL-16878/6 Type ET

250 V Thin-Wall PTFE Wire

200 °C 250 V ultra-thin 6-mil PTFE silver-plated copper hook-up wire

MIL-DTL-16878/6 Type ET | 250 V · +200 °C | Fluoropolymer HT



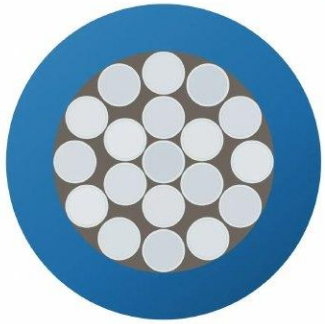
Application

MIL-DTL-16878/6 Type ET (NEMA HP3) uses a compact 6-mil extruded PTFE dielectric over silver-plated copper conductors for lightweight, high-density 250 V aerospace modules and miniature sensors.

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 B298 Class K stranded silver-plated annealed copper · ASTM B298 Silver Cu
2	Extruded insulation	6-mil thin-wall blue extruded PTFE fluoropolymer insulation · MIL-DTL-16878/6 Type ET

Technical data

Typical values

Rated voltage	250 V	Test voltage	1.5 kV AC
Conductor	Silver-Plated Cu	Insulation	6-mil thin-wall blue extruded 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	5 × OD (fixed)	Flame / fire rating	Ultra-Thin 6-mil PTFE
Thermal / chemical	200 °C Continuous	Mechanical / special	Minimal Harness Weight
Outer finish	Blue 6-mil thin-wall extruded PTFE		

Sizes

7 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 5×D mm
☐ 1×32 AWG	0.5	600.00	1	9	2.5
☐ 1×30 AWG	0.6	378.00	1	9	3.0
☐ 1×28 AWG	0.7	238.00	1	9	3.5
☐ 1×26 AWG	0.8	150.00	1	9	4.0
☐ 1×24 AWG	0.9	94.20	2	11	4.5
☐ 1×22 AWG	1.0	59.40	3	12	5.0
☐ 1×20 AWG	1.2	36.70	5	14	6.0

- Conductor DC resistance R20 at 20 °C per ASTM B298 Silver Cu.
- Minimum bending radius calculated at 5 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- MIL-DTL-16878/6 Type ET
- NEMA HP3
- ASTM B298 Silver Cu
- 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/mil-dtl-16878-6-type-et-250v-thin-wall-ptfe-wire

Typical values for this cable type, based on MIL-DTL-16878/6 Type ET · NEMA HP3 · ASTM B298 Silver Cu. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.