High-temperature fluoropolymer, silicone & HV wires

UL 21618 (TD 833 CF) Cable

UL AWM 21618 (TD 833 CF) 200 °C Screened FEP Cable

White 200 °C UL 21618 screened FEP control cable for cleanrooms & ovens

UL AWM Style 21618 | 300 V · +200 °C | Fluoropolymer HT



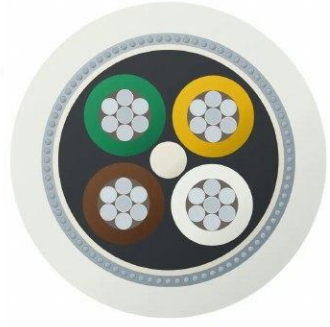
Application

UL 21618 / TD 833 CF FEP combines stranded bare copper cores, FEP insulation, ≥ 85% tinned copper braid screening, and a clean white chemical-proof 200 °C FEP jacket for cleanroom, food, and semiconductor lines.

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 B172 Class K flexible bare annealed copper · ASTM B172 Class K
2	Dielectric / core insulation	Extruded FEP fluoropolymer core insulation · UL AWM Style 21618
3	Core assembly & separator	Concentric cabled core assembly with low-friction fleece/polyester separator tape · UL AWM Style 21618
4	Metallic EMC screen	Overall ≥ 85% tinned copper wire braid EMC shield · EMC ≥ 85% shield
5	Outer sheath	White cleanroom-grade chemical-proof extruded FEP outer jacket · UL VW-1 / FT1 Flame

Technical data

Typical values

Rated voltage	300 V	Test voltage	2 kV AC
Conductor	Bare Cu · Cl.K	Insulation	Extruded FEP fluoropolymer core insulation
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	Temp. range (fixed)	-70 °C to +200 °C
Temp. range (flexing)	-40 °C to +200 °C	Peak / short-circuit	+220 °C (short-term)
Min. bending radius	10 × OD (fixed)	Flame / fire rating	UL VW-1 / FT1 Flame
Thermal / chemical	200 °C Cleanroom FEP	Mechanical / special	≥ 85% EMC Braid Screen
Outer finish	White cleanroom-grade chemical-proof		

Sizes

6 standard constructions

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

Cores × AWG	Outer Ø ≈ mm	Max. R20 Ω/km	Metal index kg/km	Weight ≈ kg/km	Min. bend R 10×D mm
☐ 4×22 AWG	5.4	59.40	28	77	54
☐ 4×20 AWG	6.0	36.70	37	99	60
☐ 4×18 AWG	6.8	23.20	51	132	68
☐ 4×16 AWG	7.6	14.70	72	177	76
☐ 4×14 AWG	8.8	9.07	104	248	88
☐ 7×18 AWG	8.2	23.20	78	197	82

- Conductor DC resistance R20 at 20 °C per ASTM B172 Class K.
- Minimum bending radius calculated at 10 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- UL AWM Style 21618
- UL 758
- CSA AWM I/II 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/ul-21618-td-833-cf-fep-200c-screened-control-cable

Typical values for this cable type, based on UL AWM Style 21618 · UL 758 · CSA AWM I/II 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.