High-temperature fluoropolymer, silicone & HV wires

UL 20221/20222 ETFE

UL AWM 20221 / 20222 150 °C Multi-Core ETFE Cable

UL 758 Style 20221/20222 grey ETFE abrasion-resistant multi-core cable

UL AWM Style 20221 | **300 V · +150 °C** | **Fluoropolymer HT**



Application

UL 20221 / 20222 ETFE bundles stranded tinned copper cores in ETFE insulation under a tough grey ETFE fluoropolymer outer jacket rated 150 °C for chemical robotics, cleanroom tools, and radiation-tolerant controls.

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 / B33 Class K flexible tinned annealed copper · ASTM B172 / B33
2	**Dielectric / core insulation**	Extruded ETFE fluoropolymer core insulation · UL AWM Style 20221
3	**Core assembly & separator**	Concentric cabled core assembly with low-friction fleece/polyester separator tape · UL AWM Style 20221
4	**Outer sheath**	Grey abrasion- & chemical-resistant extruded ETFE outer jacket · UL VW-1 / FT1 Flame

Technical data

Typical values

Rated voltage	300 V	Test voltage	2 kV AC
Conductor	Tinned Cu · Cl.K	Insulation	Extruded ETFE fluoropolymer core insulation
Impedance / insulation	≥ 1,000 MΩ·km at 20 °C	Temp. range (fixed)	-65 °C to +150 °C
Temp. range (flexing)	-40 °C to +150 °C	Peak / short-circuit	+160 °C (5 s)
Min. bending radius	8 × OD (fixed)	Flame / fire rating	UL VW-1 / FT1 Flame
Thermal / chemical	150 °C Tough ETFE	Mechanical / special	Radiation & Chemical Proof
Outer finish	Grey abrasion- & chemical-resistant		

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 8×D mm
☐	4×22 AWG	4.8	59.40	12	46	38
☐	4×20 AWG	5.4	36.70	19	64	43
☐	4×18 AWG	6.2	23.20	31	93	50
☐	4×16 AWG	7.0	14.70	49	132	56
☐	4×14 AWG	8.2	9.07	77	196	66
☐	7×18 AWG	7.6	23.20	54	150	61

- Conductor DC resistance R20 at 20 °C per ASTM B172 / B33.
- Minimum bending radius calculated at 8 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- UL AWM Style 20221
- UL AWM Style 20222
- 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-20221-20222-150c-etfe-multi-core-control-cable

Typical values for this cable type, based on UL AWM Style 20221 · UL AWM Style 20222 · 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.