High-temperature fluoropolymer, silicone & HV wires

# UL 20710 Thin-Wall FEP

## UL AWM 20710 600 V 200 °C Thin-Wall FEP Control Cable

Compact 600 V 200 °C UL 20710 thin-wall FEP multi-conductor cable

UL AWM Style 20710 | 600 V · +200 °C | Fluoropolymer HT



## Application

UL 20710 600 V Thin-Wall FEP combines fine-stranded tinned copper conductors with space-saving thin-wall FEP insulation and a slim black 200 °C FEP jacket for compact industrial ovens and semiconductor cabinets.

**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 | Thin-wall extruded FEP fluoropolymer core insulation · UL AWM Style 20710 |
| 3 | Core assembly & separator | Concentric cabled core assembly with low-friction fleece/polyester separator tape · UL AWM Style 20710 |
| 4 | Outer sheath | Black slim-profile 200 °C extruded FEP outer jacket · UL VW-1 / FT1 Flame |

## Technical data

Typical values

| | | | |
|---|---|---|---|
| Rated voltage | 600 V | Test voltage | 2.5 kV AC |
| Conductor | Tinned Cu · Cl.K | Insulation | Thin-wall extruded FEP fluoropolymer core |
| 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 | 8 × OD (fixed) | Flame / fire rating | UL VW-1 / FT1 Flame |
| Thermal / chemical | 600 V Thin-Wall FEP | Mechanical / special | 200 °C Compact OD |
| Outer finish | Black slim-profile 200 °C extruded FEP | | |

## 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 20710
- 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-20710-600v-200c-thin-wall-fep-multi-core-cable**

Typical values for this cable type, based on UL AWM Style 20710 · 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.