High-temperature fluoropolymer, silicone & HV wires

# UL 1333 300V FEP

## UL AWM 1333 300 V 150 °C FEP Thin-Wall Hook-Up Wire

UL 758 Style 1333 300 V 150 °C thin-wall FEP fluoropolymer wire

UL AWM Style 1333 | 300 V · +150 °C | Fluoropolymer HT



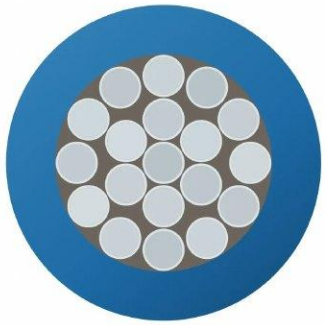

## Application

UL 1333 150 °C 300 V FEP combines stranded tinned copper conductors with compact 10-mil blue FEP fluoropolymer insulation for high-density 300 V electronic cabinets, lighting fixtures, and industrial 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 B172 / B33 Class K flexible tinned annealed copper · ASTM B172 / B33 |
| 2 | Extruded insulation | Blue 10-mil extruded FEP fluoropolymer insulation · UL AWM Style 1333 |

## Technical data

Typical values

| | | | |
|---|---|---|---|
| Rated voltage | 300 V | Test voltage | 2 kV AC |
| Conductor | Tinned Cu · Cl.K | Insulation | Blue 10-mil extruded FEP fluoropolymer |
| 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 | 6 × OD (fixed) | Flame / fire rating | UL VW-1 / FT1 Flame |
| Thermal / chemical | Compact 10-mil FEP | Mechanical / special | Chemical & Moisture Proof |
| Outer finish | Blue 10-mil extruded FEP fluoropolymer | | |

## Sizes

8 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 6×D mm |
|---|---|---|---|---|---|
| ☐ 1×28 AWG | 0.9 | 238.00 | 1 | 9 | 5.4 |
| ☐ 1×26 AWG | 1.0 | 150.00 | 1 | 9 | 6.0 |
| ☐ 1×24 AWG | 1.1 | 94.20 | 2 | 11 | 6.6 |
| ☐ 1×22 AWG | 1.3 | 59.40 | 3 | 12 | 7.8 |
| ☐ 1×20 AWG | 1.5 | 36.70 | 5 | 14 | 9.0 |
| ☐ 1×18 AWG | 1.7 | 23.20 | 7 | 17 | 10.2 |
| ☐ 1×16 AWG | 2.0 | 14.70 | 12 | 23 | 12.0 |
| ☐ 1×14 AWG | 2.4 | 9.07 | 19 | 35 | 14.0 |

- Conductor DC resistance R20 at 20 °C per ASTM B172 / B33.
- Minimum bending radius calculated at 6 × nominal outer diameter (OD). Custom core counts and lengths available on request.

## Standards and approvals

- UL AWM Style 1333
- UL 758
- CSA AWM I 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-1333-300v-150c-fep-thin-wall-hook-up-wire**

Typical values for this cable type, based on UL AWM Style 1333 · UL 758 · CSA AWM I 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.