

# UL 1570; CSA 600V wire—mineral-filled PTFE insulation (abrasion resistant)

**UL 1570, CSA 600V** wires have extruded mineral-filled PTFE (Polytetrafluoroethylene) insulation. This insulation's enhanced abrasion resistance makes these wires suitable as replacements for wires with asbestos or braided glass insulations.

These wires are ideal for applications where chemical exposure, temperature extremes, and dielectric stresses are possible.

**Performance:**

**Voltage rating:** 600V. (UL allows 2,500V peak for electronic use only).

**Temperature rating:** 250° C.



**Construction Details**

**Insulation:** Extruded mineral-filled PTFE, wall thickness:  
8–10 AWG: .030" (.76 mm);  
12–28 AWG: .020" (.05 mm).

**Conductor:** Nickel-plated copper.

**Colors:** Available in 10 standard colors (see page 92).

**Identification:** Surface printed as required by UL or CSA.

**Options:** Nickel-plated high-strength copper alloy conductor.

**Ordering Information:** Specify Thermax part number, UL or CSA style, and color.

Thermax part numbers shown below meet specifications for UL 1570 and CSA styles.

For optional nickel-plated high-strength copper conductor, change **XTN** in Thermax part number to **XTTFN**.

**Dimensions, Weights, and Resistance—UL 1570; CSA 600V wires**

AWG Size	Stranding	Conductor Diameter	Insulation Diameter	Weight	Maximum Resistance	Thermax P/N
8	133/29	.163 (4.14)	.230 (5.84)	71.7 (107)	.694 (2.28)	8-F5XTN-13329-UL/CSA
10	37/.0167	.113 (2.87)	.179 (4.55)	44.9 (66.8)	1.25 (4.10)	10-F5XTN-37/0167-UL/CSA
10	37/26*	.108 (2.74)	.174 (4.42)	42.3 (63.0)	1.23 (4.03)	10-F5XTN-3726-UL
12	19/.0186	.088 (2.24)	.134 (3.40)	27.1 (40.3)	1.66 (5.44)	12-F3XTN-19/0186-UL/CSA
12	19/25*	.084 (2.13)	.130 (3.30)	26.4 (39.3)	1.89 (6.20)	12-F3XTN-1925-UL
14	19/.0147	.070 (1.78)	.115 (2.92)	19.2 (28.6)	2.70 (8.86)	14-F3XTN-19/0147-UL/CSA
14	19/27*	.067 (1.70)	.112 (2.84)	17.8 (26.5)	3.00 (9.84)	14-F3XTN-1927-UL
16	19/.0117	.056 (1.42)	.102 (2.59)	13.4 (19.9)	4.41 (14.5)	16-F3XTN-190117-UL/CSA
16	19/29*	.053 (1.35)	.099 (2.51)	12.7 (19.0)	4.76 (15.6)	16-F3XTN-1929-UL
18	19/30	.047 (1.19)	.093 (2.36)	10.7 (16.0)	6.10 (20.0)	18-F3XTN-1930-UL/CSA
20	19/32	.038 (.965)	.083 (2.11)	7.89 (11.7)	9.68 (31.8)	20-F3XTN-1932-UL/CSA
22	19/34	.030 (.762)	.074 (1.88)	5.82 (8.66)	15.7 (51.5)	22-F3XTN-1934-UL/CSA
24	19/36	.024 (.610)	.068 (1.73)	4.54 (6.76)	25.2 (82.7)	24-F3XTN-1936-UL/CSA

Dimensions in inches (mm). Weights in pounds/1000 feet (Kg/1000 M). Resistance in Ω/1,000 feet (Ω/Km), @20° C.

All values are nominal unless otherwise indicated. \* CSA allows these strandings for electronic use only.