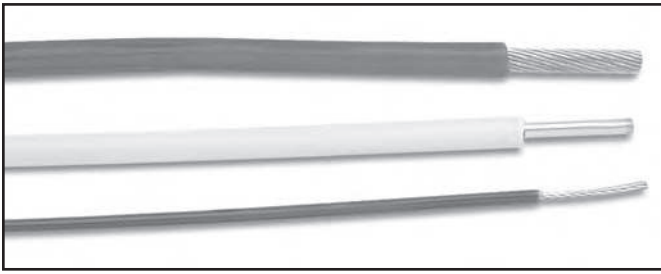


# UL 1164, 1180; CSA 300V wire—extruded PTFE insulation



**UL 1164, 1180, CSA 300V (200° C) wires** have extruded PTFE (Polytetrafluoroethylene) insulation for weight and space savings.

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

For heavy-wall versions of these wires, see UL 1198, 1199, CSA 600V wires (following page).

**Performance:**

**Voltage rating:** 300V (UL allows 600V for electronic use only).

**Temperature rating:** UL 1164: 150° C;  
UL 1180, CSA: 200° C.

**Construction Details**

**Insulation:** Extruded PTFE, .013" (.33 mm) wall thickness.

**Conductor:** Silver-plated copper.

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

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

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

Thermax part numbers shown below meet specifications for UL 1164, 1180, and CSA styles.

**Dimensions, Weights, and Resistance—UL 1164, 1180; CSA 300V (200° C) wires**

AWG Size	Stranding	Conductor Diameter	Insulation Diameter	Weight	Maximum Resistance	Thermax P/N
10	37/.0167	.113 (2.87)	.146 (3.71)	39.3 (58.5)	1.19 (3.90)	10-XT-37/0167-UL/CSA
10	37/26*	.109 (2.77)	.141 (3.58)	35.1 (52.2)	1.19 (3.90)	10-XT-3726-UL
12	19/.0186	.088 (2.24)	.125 (3.18)	26.3 (39.1)	1.81 (5.94)	12-XT-19/0186-UL/CSA
12	19/25*	.084 (2.13)	.116 (2.95)	23.2 (34.5)	1.81 (5.94)	12-XT-1925-UL
14	19/.0147	.070 (1.78)	.105 (2.67)	17.1 (25.4)	2.87 (9.41)	14-XT-19/0147-UL/CSA
14	19/27*	.067 (1.70)	.102 (2.59)	16.4 (24.4)	2.87 (9.41)	14-XT-1927-UL
16	19/.0117	.056 (1.42)	.090 (2.29)	11.6 (17.3)	4.52 (14.8)	16-XT-19/0117-UL/CSA
16	19/29*	.053 (1.35)	.086 (2.18)	11.0 (16.4)	4.54 (14.9)	16-XT-1929-UL
18	19/30	.047 (1.19)	.079 (2.01)	8.79 (13.1)	5.80 (19.0)	18-XT-1930-UL/CSA
18	7/26	.048 (1.22)	.079 (2.01)	8.72 (13.0)	6.01 (19.7)	18-XT-726-UL/CSA
20	19/32	.038 (.965)	.068 (1.73)	6.09 (9.06)	8.87 (29.1)	20-XT-1932-UL/CSA
20	7/28	.038 (.965)	.068 (1.73)	6.01 (8.94)	9.56 (31.4)	20-XT-728-UL/CSA
20	SOLID	.032 (.813)	.061 (1.55)	5.12 (7.62)	10.1 (33.1)	20-XT-120-UL/CSA
22	19/34	.030 (.762)	.060 (1.52)	4.34 (6.46)	14.8 (48.5)	22-XT-1934-UL/CSA
22	7/30	.030 (.762)	.060 (1.52)	4.29 (6.38)	15.2 (49.9)	22-XT-730-UL/CSA
22	SOLID	.025 (.635)	.054 (1.37)	3.65 (5.43)	16.5 (54.1)	22-XT-122-UL/CSA
24	19/36	.024 (.610)	.053 (1.35)	3.13 (4.66)	23.6 (77.4)	24-XT-1936-UL/CSA
24	7/32	.024 (.610)	.053 (1.35)	3.13 (4.66)	23.9 (78.4)	24-XT-732-UL/CSA
24	SOLID	.020 (.508)	.049 (1.24)	2.72 (4.05)	25.7 (84.3)	24-XT-124-UL/CSA
26	19/38	.019 (.483)	.048 (1.22)	2.40 (3.57)	37.3 (122)	26-XT-1938-UL/CSA
26	7/34	.019 (.483)	.048 (1.22)	2.36 (3.51)	38.7 (127)	26-XT-734-UL/CSA
26	SOLID	.016 (.406)	.045 (1.14)	2.09 (3.11)	41.0 (134)	26-XT-126-UL/CSA
28	19/40	.015 (.381)	.045 (1.14)	1.91 (2.84)	63.1 (207)	28-XT-1940-UL/CSA
28	7/36	.015 (.381)	.045 (1.14)	1.91 (2.84)	62.0 (203)	28-XT-736-UL/CSA
28	SOLID	.013 (.330)	.042 (1.07)	1.68 (2.50)	65.3 (214)	28-XT-128-UL/CSA
30	7/38	.012 (.305)	.041 (1.04)	1.52 (2.26)	97.5 (320)	30-XT-738-UL
32	7/40	.009 (.229)	.039 (.991)	1.29 (1.92)	166 (544)	32-XT-740-UL

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.

