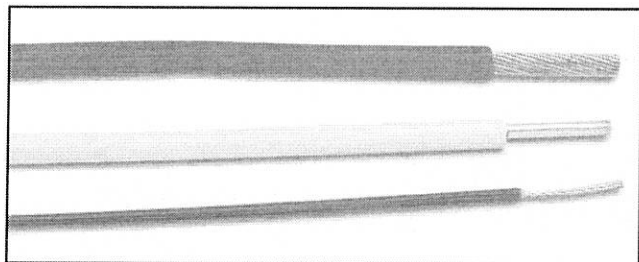


UL 1212, 1213, CSA 150V wire—extruded PTFE insulation (low voltage)



UL 1212, 1213, CSA 150V wires have thin-wall extruded PTFE (Polytetrafluoroethylene) insulation for weight and space savings. The very thin wall insulation of these wires restricts their usage to low-voltage applications.

Performance:

Voltage rating: Not specified by UL; 150 V for CSA.

Temperature rating: UL 1212: 80° C;
UL 1213: 150° C;
CSA: 200° C.

Construction Details

Insulation: Extruded PTFE, .008" (.20 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.

Options: Nickel-plated copper conductor; silver or nickel-plated high-strength copper alloy conductor

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

Thermax part numbers shown below meet specifications for both UL 1212 and 1213 styles.

For optional nickel-plated copper conductor, change **TE** in Thermax part number to **TEN**.

Dimensions, Weights, and Resistance—UL 1212, 1213 wires

AWG Size	Stranding	Conductor Diameter	Insulation Diameter	Weight	Maximum Resistance	Thermax P/N
16	19/29	.053 (1.35)	.077 (1.96)	9.65 (14.4)	4.52 (14.8)	16-TE-1929-UL/CSA
16	19/0117	.056 (1.42)	.076 (1.93)	10.0 (14.9)	4.52 (14.8)	16-TE-19/0117-UL/CSA
18	19/30	.047 (1.19)	.068 (1.73)	7.50 (11.2)	5.79 (19.0)	18-TE-1930-UL/CSA
18	7/26	.048 (1.22)	.068 (1.73)	7.50 (11.2)	6.01 (19.7)	18-TE-726-UL/CSA
20	19/32	.038 (.965)	.058 (1.47)	5.15 (7.66)	8.87 (29.1)	20-TE-1932-UL/CSA
20	7/28	.038 (.965)	.058 (1.47)	5.05 (7.52)	9.56 (31.4)	20-TE-728-UL/CSA
20	SOLID	.032 (.813)	.054 (1.37)	4.89 (7.28)	10.1 (33.1)	20-TE-120-UL/CSA
22	19/34	.030 (.762)	.050 (1.27)	3.51 (5.22)	14.8 (48.5)	22-TE-1934-UL/CSA
22	7/30	.030 (.762)	.050 (1.27)	3.47 (5.16)	15.2 (49.9)	22-TE-730-UL/CSA
22	SOLID	.025 (.635)	.046 (1.17)	3.06 (4.55)	16.5 (54.1)	22-TE-122-UL/CSA
24	19/36	.024 (.610)	.043 (1.09)	2.41 (3.59)	23.6 (77.4)	24-TE-1936-UL/CSA
24	7/32	.024 (.610)	.043 (1.09)	2.41 (3.59)	23.9 (78.4)	24-TE-732-UL/CSA
24	SOLID	.020 (.508)	.040 (1.02)	2.12 (3.15)	25.7 (84.3)	24-TE-124-UL/CSA
26	19/38	.019 (.483)	.038 (.965)	1.74 (2.59)	37.3 (122)	26-TE-1938-UL/CSA
26	7/34	.019 (.483)	.038 (.965)	1.71 (2.54)	38.7 (127)	26-TE-734-UL/CSA
26	SOLID	.016 (.406)	.035 (.889)	1.49 (2.22)	41.0 (134)	26-TE-126-UL/CSA
28	19/40	.015 (.381)	.035 (.889)	1.32 (1.96)	63.1 (207)	28-TE-1940-UL/CSA
28	7/36	.015 (.381)	.035 (.889)	1.32 (1.96)	62.0 (203)	28-TE-736-UL/CSA
28	SOLID	.013 (.330)	.032 (.813)	1.13 (1.68)	65.3 (214)	28-TE-128-UL/CSA
30	19/42	.012 (.305)	.032 (.813)	1.03 (1.53)	96.1 (315)	30-TE-1942-UL/CSA
30	7/38	.012 (.305)	.032 (.813)	1.02 (1.52)	97.5 (320)	30-TE-738-UL/CSA
30	SOLID	.010 (.254)	.029 (.737)	.862 (1.28)	104 (341)	30-TE-130-UL/CSA
32	19/44	.010 (.254)	.029 (.737)	.801 (1.19)	153 (502)	32-TE-1944-UL/CSA
32	7/40	.009 (.229)	.029 (.737)	.784 (1.17)	166 (544)	32-TE-740-UL/CSA
32	SOLID	.008 (.203)	.027 (.686)	.692 (1.03)	162 (531)	32-TE-132-UL/CSA
34	7/42	.008 (.191)	.028 (.711)	.671 (1.00)	258 (846)	34-TE-742-UL/CSA
36	7/44	.006 (.152)	.025 (.635)	.518 (.771)	412 (1351)	36-TE-744-UL/CSA

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

All values are nominal unless otherwise indicated.



UL 1371, 1538 wire—extruded PTFE insulation (low voltage)

UL 1371 and 1538 wires have thin-wall extruded PTFE (Polytetrafluoroethylene) insulation for weight and space savings. The very thin wall insulation of these wires restricts their usage to low-voltage applications.

Performance:

Voltage rating: UL 1371: Not specified by UL;
UL 1538: 125V.

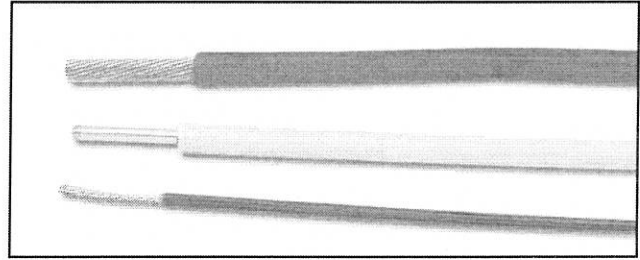
Temperature rating: 105° C.

Ordering Information: Specify Thermax part number, UL style, and color. Thermax part numbers shown below meet specifications for UL 1371 and UL 1538 styles.

For nickel-plated copper conductor, change **XT** in Thermax part number to **XTN**, **TE** to **TEN**, or **MT** to **MTN**.

For optional silver-plated high-strength copper conductor, change **XT** in Thermax part number to **XTTF**, **TE** to **TETF**, or **MT** to **MTTF**.

For optional nickel-plated high-strength copper conductor, change **XT** in Thermax part number to **XTTFN**, **TE** to **TETFN**, or **MT** to **MTTFN**.



Construction Details

Insulation: Extruded PTFE, wall thickness:
8 AWG: .020" (.51 mm);
10–15 AWG: .013" (.33 mm);
16–19 AWG: .008" (.20 mm);
20–36 AWG: .0055" (.14 mm).

Conductor: Silver-plated copper.

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

Identification: Surface printed as required by UL.

Options: Nickel-plated copper conductor;
nickel-plated high-strength copper alloy conductor;
silver-plated high-strength copper alloy conductor.

Dimensions, Weights, and Resistance—UL 1371, 1538 wires

AWG Size	Stranding	Conductor Diameter	Insulation Diameter	Weight	Maximum Resistance	Thermax P/N
8	133/29	.162 (4.11)	.209 (5.31)	68.7 (102)	.658 (2.16)	8-3XT-13329-UL
10	37/26	.108 (2.74)	.141 (3.58)	35.1 (52.2)	1.19 (3.90)	10-XT-3726-UL
12	19/25	.084 (2.13)	.120 (3.05)	24.8 (36.9)	1.81 (5.94)	12-XT-1925-UL
14	19/27	.067 (1.70)	.102 (2.59)	16.4 (24.4)	2.87 (9.41)	14-XT-1927-UL
16	19/29	.053 (1.35)	.076 (1.93)	9.75 (14.5)	4.54 (14.9)	16-TE-1929-UL
18	19/30	.047 (1.19)	.067 (1.70)	7.48 (11.1)	5.80 (19.0)	18-TE-1930-UL
20	19/32	.038 (.965)	.052 (1.32)	4.67 (6.95)	8.87 (29.1)	20-MT-1932-UL
20	7/28	.038 (.965)	.052 (1.32)	4.57 (6.80)	9.56 (31.4)	20-MT-728-UL
22	19/34	.030 (.762)	.044 (1.12)	3.09 (4.60)	14.8 (48.5)	22-MT-1934-UL
22	7/30	.030 (.762)	.044 (1.12)	3.05 (4.54)	15.2 (49.9)	22-MT-730-UL
24	19/36	.024 (.610)	.038 (.965)	2.11 (3.14)	23.6 (77.4)	24-MT-1936-UL
24	7/32	.024 (.610)	.038 (.965)	2.11 (3.14)	23.9 (78.4)	24-MT-732-UL
26	19/38	.019 (.483)	.034 (.864)	1.52 (2.26)	37.3 (122)	26-MT-1938-UL
26	7/34	.019 (.483)	.033 (.838)	1.43 (2.13)	38.7 (127)	26-MT-734-UL
26	SOLID	.016 (.406)	.029 (.737)	1.21 (1.80)	41.0 (134)	26-MT-126-UL
28	19/40	.015 (.381)	.029 (.737)	1.03 (1.53)	63.1 (207)	28-MT-1940-UL
28	7/36	.015 (.381)	.028 (.711)	.989 (1.47)	62.0 (203)	28-MT-736-UL
28	SOLID	.013 (.330)	.026 (.660)	.871 (1.30)	65.3 (214)	28-MT-128-UL
30	19/42	.012 (.305)	.026 (.660)	.776 (1.15)	96.1 (315)	30-MT-1942-UL
30	7/38	.012 (.305)	.025 (.635)	.719 (1.07)	97.5 (320)	30-MT-738-UL
30	SOLID	.010 (.254)	.023 (.584)	.623 (.927)	104 (341)	30-MT-130-UL
32	19/44	.010 (.254)	.023 (.584)	.572 (.851)	153 (502)	32-MT-1944-UL
32	7/40	.009 (.229)	.022 (.559)	.519 (.772)	166 (544)	32-MT-740-UL
32	SOLID	.008 (.203)	.021 (.533)	.481 (.716)	162 (531)	32-MT-132-UL
34	7/42	.007 (.191)	.020 (.508)	.410 (.611)	274 (897)	34-MT-742-UL
34	SOLID	.006 (.160)	.019 (.483)	.363 (.541)	286 (939)	34-MT-134-UL
36	7/44	.006 (.152)	.019 (.483)	.339 (.505)	415 (1360)	36-MT-744-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.

