

# 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  $\Omega$ /1,000 feet ( $\Omega$ /Km), @20° C.

All values are nominal unless otherwise indicated.