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.

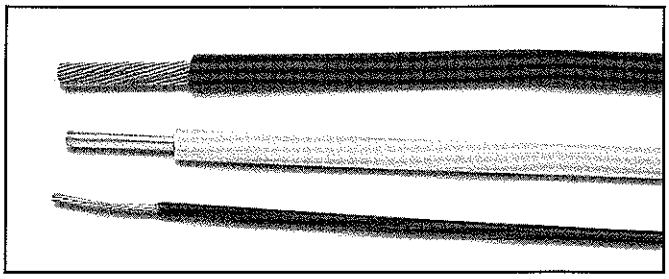
Temperature rating: 105° C.

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.

Eastern USA: (888) 761-7800 • Western USA: (800) 423-5873
Asia: (818) 701-0565 • Other International: (203) 284-9610