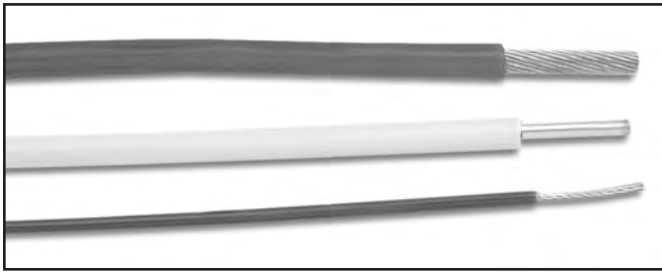


# UL 1727, 600V wire—extruded PFA insulation (thick wall)



## Construction Details

**Insulation:** Extruded PFA, wall thickness:  
 4/0–1 AWG: .045" (1.14 mm);  
 2–8 AWG: .030" (.76 mm);  
 10–32 AWG: .020" (.51 mm).

**Conductor:** Nickel-plated copper.

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

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

**Options:** Silver-plated copper or high-strength copper alloy conductor.

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

To order with optional conductor materials:

For silver-plated copper conductor, change **XPAN** in Thermax part number to **XPA**.

For silver-plated high-strength copper alloy conductor, change **XPAN** in Thermax part number to **XPATF**.

**UL 1727** wires have thick-wall extruded PFA (Perfluoroalkoxy) insulation for durability and higher voltage rating.

This insulation offers excellent long-term mechanical stability in high-temperature environments, and has superior resistance to chemical exposure.

For thin-wall versions of these wires, see UL 1726 wires (previous page).

**Performance:**

**Voltage rating:** 600V.

**Temperature rating:** 250° C.

## Dimensions, Weights, and Resistance—UL 1727 wires

AWG Size	Stranding	Conductor Diameter	Insulation Diameter	Weight	Maximum Resistance	Thermax P/N
2	665/30	.330 (8.38)	.406 (10.3)	259 (385)	.170 (.558)	2-5XPAN-66530-UL
4	133/25	.256 (6.50)	.327 (8.31)	165 (246)	.275 (.902)	4-5XPAN-13325-UL
6	133/27	.204 (5.18)	.272 (6.91)	108 (161)	.436 (1.43)	6-5XPAN-13327-UL
8	133/29	.163 (4.14)	.230 (5.84)	72.9 (108)	.694 (2.28)	8-5XPAN-13329-UL
10	37/26	.108 (2.74)	.156 (3.96)	38.9 (57.9)	1.23 (4.03)	10-3XPAN-3726-UL
12	19/25	.084 (2.13)	.132 (3.35)	26.4 (39.3)	1.89 (6.20)	12-3XPAN-1925-UL
14	19/27	.067 (1.69)	.111 (2.82)	17.9 (26.6)	3.00 (9.84)	14-3XPAN-1927-UL
16	19/29	.053 (1.35)	.097 (2.46)	12.9 (19.2)	4.76 (15.6)	16-3XPAN-1929-UL
18	19/30	.047 (1.19)	.091 (2.31)	10.5 (15.6)	6.10 (20.0)	18-3XPAN-1930-UL
18	7/26	.048 (1.21)	.091 (2.31)	10.3 (15.3)	6.50 (21.3)	18-3XPAN-726-UL
20	19/32	.038 (.955)	.081 (2.06)	7.64 (11.4)	9.68 (31.8)	20-3XPAN-1932-UL
20	7/28	.038 (.960)	.081 (2.06)	7.50 (11.2)	9.96 (32.7)	20-3XPAN-728-UL
20	SOLID	.032 (.813)	.075 (1.91)	6.73 (10.0)	10.3 (33.8)	20-3XPAN-120-UL
22	19/34	.030 (.752)	.073 (1.85)	5.73 (8.53)	15.7 (51.5)	22-3XPAN-1934-UL
22	7/30	.030 (.762)	.073 (1.85)	5.62 (8.36)	16.0 (52.5)	22-3XPAN-730-UL
22	SOLID	.025 (.643)	.068 (1.73)	5.03 (7.49)	17.3 (56.7)	22-3XPAN-122-UL
24	19/36	.024 (.597)	.067 (1.70)	4.45 (6.62)	25.2 (82.7)	24-3XPAN-1936-UL
24	7/32	.024 (.610)	.067 (1.70)	4.43 (6.59)	25.4 (83.3)	24-3XPAN-732-UL
24	SOLID	.020 (.511)	.063 (1.60)	3.98 (5.92)	26.7 (87.6)	24-3XPAN-124-UL
26	19/38	.019 (.483)	.062 (1.57)	3.59 (5.34)	41.0 (134)	26-3XPAN-1938-UL
28	7/36	.015 (.381)	.059 (1.50)	3.05 (4.54)	66.0 (216)	28-3XPAN-736-UL
30	7/38	.012 (.305)	.056 (1.42)	2.64 (3.93)	107 (351)	30-3XPAN-738-UL
32	7/40	.010 (.244)	.053 (1.35)	2.28 (3.39)	182 (597)	32-3XPAN-740-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.