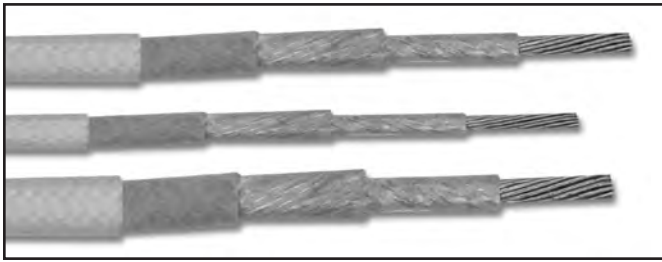


UL 5107, 5128 wire—ultra-high-temperature, abrasion resistant



UL 5107 and 5128 wires have glass-reinforced mica tape insulation and a braided fiberglass jacket for enhanced abrasion resistance. They meet all UL requirements for appliance lead wire, and are also available with CSA certification.

These wires are ideal for use in heaters, ovens, and other ultra-high-temperature applications.

Construction Details

Jacket: Glass braid with PTFE high-temperature saturant (or silicone high-temperature saturant).

Insulation: Multiple layers of mica / glass composite tape.

Conductor: 27% nickel-coated copper.

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

Identification: Temperature ID as required by UL and CSA.

Options: Nickel-coated iron conductor; solid nickel conductor; nickel-plated copper conductor (250° C temperature rating with this option).

Performance:

Voltage rating: 600V (UL 5107);
300V (UL 5128).

Temperature rating: 450° C;
250° C with optional nickel-plated copper conductor.

Ordering Information: Specify Thermax part number and UL style.

Contact factory for part numbers of wires with optional conductor materials

For jacket with optional silicone braid saturant, change **TMIT** in Thermax part number to **TMIS** (jacket color is brown with this option).

Dimensions, Weights, and Resistance—UL 5107 wires (600V)

AWG Size	Stranding	Conductor Diameter	Insulation Diameter	Weight	Maximum Resistance	Thermax P/N
8	133/29	.168 (4.27)	.270 (6.86)	90.2 (134)	.920 (3.02)	8-TMIT600-13329
10	49/27	.126 (3.20)	.228 (5.79)	60.2 (89.5)	1.68 (5.51)	10-TMIT600-4927
10	37/26	.110 (2.79)	.212 (5.38)	57.1 (85.0)	1.60 (5.25)	10-TMIT600-3726
12	19/25	.088 (2.24)	.162 (4.11)	33.5 (49.8)	2.49 (8.17)	12-TMIT600-1925
14	19/27	.071 (1.80)	.145 (3.68)	23.5 (34.9)	4.32 (14.2)	14-TMIT600-1927
16	19/29	.056 (1.42)	.130 (3.30)	17.9 (26.6)	6.54 (21.5)	16-TMIT600-1929
18	19/30	.050 (1.27)	.124 (3.15)	15.6 (23.2)	8.16 (26.8)	18-TMIT600-1930
18	7/26	.048 (1.21)	.122 (3.10)	14.4 (21.4)	8.25 (27.1)	18-TMIT600-726
20	19/32	.040 (1.02)	.114 (2.90)	12.3 (18.3)	14.6 (47.9)	20-TMIT600-1932
22	19/34	.032 (.81)	.106 (2.69)	9.58 (14.3)	22.5 (73.8)	22-TMIT600-1934

Dimensions, Weights, and Resistance—UL 5128 wires (300V)

AWG Size	Stranding	Conductor Diameter	Insulation Diameter	Weight	Maximum Resistance	Thermax P/N
8	133/29	.168 (4.27)	.246 (6.25)	81.9 (122)	.920 (3.02)	8-TMIT300-13329
10	49/27	.126 (3.20)	.203 (5.16)	52.6 (78.2)	1.68 (5.51)	10-TMIT300-4927
10	37/26	.110 (2.79)	.187 (4.75)	49.8 (74.1)	1.60 (5.25)	10-TMIT300-3726
12	19/25	.088 (2.24)	.140 (3.56)	29.2 (43.4)	2.49 (8.17)	12-TMIT300-1925
14	19/27	.071 (1.80)	.123 (3.12)	20.1 (30.0)	4.32 (14.2)	14-TMIT300-1927
16	19/29	.056 (1.42)	.108 (2.74)	14.5 (21.6)	6.54 (21.5)	16-TMIT300-1929
18	19/30	.050 (1.27)	.102 (2.59)	10.7 (15.8)	8.16 (26.8)	18-TMIT300-1930
18	7/26	.048 (1.21)	.100 (2.54)	11.2 (16.6)	8.25 (27.1)	18-TMIT300-726
20	19/32	.040 (1.02)	.092 (2.34)	9.24 (13.8)	14.6 (47.9)	20-TMIT300-1932
22	19/34	.032 (.81)	.084 (2.13)	6.63 (9.87)	22.5 (73.8)	22-TMIT300-1934

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.