

UL 1330, 1331; CSA 600V wire—extruded FEP insulation (heavy wall)

UL 1330, 1331, CSA 600V wires have heavy-wall extruded FEP (Fluorinated Ethylene Polypropylene) insulation for higher voltage ratings. UL 1330 rates these wires for up to 200° C continuous usage.

These wires are ideal for general appliance wiring and other applications where exposure to gasoline, gasoline vapor, or oil is expected.

For thin-wall versions of these wires, see UL 1332, UL 1333, CSA 300V wires (following page).

Performance:

Voltage rating: 600V.

Temperature rating: UL 1330: 200° C (see note below);
UL 1331: 150° C;
CSA: 180° C (see note below).

* For tin-plated conductors, the 200° C temperature rating of UL 1330 (and CSA's 180° rating) applies only to wires with individual strand diameters .015" (26 AWG) or larger. For wires with smaller strand diameters, the temperature rating is 150° C.

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

Thermax part numbers shown below meet specifications for UL 1330, 1331, and CSA styles.

For optional silver-plated conductor, change **XDXZ** in Thermax part number to **XDX**.

Dimensions, Weights, and Resistance—UL 1330, 1331; CSA 600V wires

AWG Size	Stranding	Conductor Diameter	Insulation Diameter	Weight	Maximum Resistance	Thermax P/N
1	817/30	.370 (9.40)	.485 (12.3)	339.0 (504.0)	.138 (.453)	1-8XDXZ-817/30-UL
2	665/30	.332 (8.43)	.406 (10.3)	261.0 (388.0)	.165 (.541)	2-5XDXZ-66530-UL
4	133/25	.260 (6.60)	.325 (8.26)	166.0 (248.0)	.263 (.863)	4-5XDXZ-13325-UL
6	133/27	.206 (5.23)	.272 (6.91)	111.0 (165.0)	.418 (1.37)	6-5XDXZ-13327-UL
8	133/29	.165 (4.19)	.230 (5.84)	72.8 (108.0)	.680 (2.23)	8-5XDXZ-13329-UL
10	37/.0167	.113 (2.87)	.158 (4.01)	41.0 (61.0)	1.19 (3.90)	10-3XDXZ-37/0167-UL/CSA
10	37/26*	.110 (2.79)	.156 (3.96)	38.7 (57.6)	1.19 (3.90)	10-3XDXZ-3726-UL
12	19/.0186	.088 (2.24)	.134 (3.40)	27.9 (41.5)	1.75 (5.74)	12-3XDXZ-19/0186-UL/CSA
12	19/25*	.086 (2.18)	.132 (3.35)	26.4 (39.3)	1.89 (6.20)	12-3XDXZ-1925-UL
14	19/.0147	.071 (1.80)	.115 (2.92)	18.7 (27.8)	2.95 (9.68)	14-3XDXZ-19/0147-UL/CSA
14	19/27*	.067 (1.70)	.111 (2.82)	17.9 (26.6)	2.99 (9.81)	14-3XDXZ-1927-UL
16	19/.0117	.056 (1.42)	.100 (2.54)	13.2 (19.6)	4.45 (14.6)	16-3XDXZ-19/0117-UL/CSA
16	19/29*	.053 (1.35)	.097 (2.46)	12.6 (18.8)	4.73 (15.5)	16-3XDXZ-1929-UL
18	19/30	.047 (1.19)	.091 (2.31)	10.6 (15.8)	6.03 (19.8)	18-3XDXZ-1930-UL/CSA
18	7/26	.048 (1.22)	.091 (2.31)	10.3 (15.3)	6.26 (20.5)	18-3XDXZ-726-UL/CSA
20	19/32	.038 (.965)	.081 (2.06)	7.64 (11.4)	9.68 (31.8)	20-3XDXZ-1932-UL/CSA
20	7/28	.038 (.965)	.081 (2.06)	7.50 (11.2)	9.96 (32.7)	20-3XDXZ-728-UL/CSA
20	SOLID	.032 (.813)	.075 (1.91)	6.73 (10.0)	10.1 (33.1)	20-3XDXZ-120-UL/CSA
22	19/34	.030 (.762)	.074 (1.88)	5.73 (8.53)	15.2 (49.9)	22-3XDXZ-1934-UL/CSA
22	7/30	.030 (.762)	.074 (1.88)	5.62 (8.36)	15.8 (51.8)	22-3XDXZ-730-UL/CSA
22	SOLID	.025 (.635)	.068 (1.73)	5.03 (7.49)	16.2 (53.1)	22-3XDXZ-122-UL/CSA
24	19/36	.024 (.610)	.067 (1.70)	4.45 (6.62)	25.1 (82.3)	24-3XDXZ-1936-UL/CSA
24	7/32	.024 (.610)	.067 (1.70)	4.43 (6.59)	25.4 (83.3)	24-3XDXZ-732-UL/CSA
24	SOLID	.020 (.508)	.064 (1.63)	3.98 (5.92)	25.7 (84.3)	24-3XDXZ-124-UL/CSA
26	19/38	.019 (.483)	.063 (1.60)	3.61 (5.37)	41.0 (134)	26-3XDXZ-1938-UL/CSA
26	7/34	.019 (.483)	.063 (1.60)	3.56 (5.30)	41.2 (135)	26-3XDXZ-734-UL/CSA
26	SOLID	.016 (.406)	.060 (1.52)	3.27 (4.87)	41.0 (134)	26-3XDXZ-126-UL/CSA

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. * CSA allows these strandings for electronic use only.



Construction Details

Insulation: Extruded FEP, wall thickness:

1 AWG: .045" (1.14 mm);

2–8 AWG: .030" (.76 mm);

10–26 AWG: .020" (.51 mm).

Conductor: Tin-plated copper.

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

Identification: Surface printed as required by UL or CSA.

Options: Silver-plated copper conductor. (When ordered with silver-plated copper conductors, all strandings are approved for 200° C under UL 1330 specifications.)

