

UL4703 Type PV Cable Aluminum



XLPE Insulation

Aluminum Conductor

Application:

- Aluminum alloy conductor XL insulated solar cable.
- For use in solar power applications per NEC Article 690
- Rated 90°C for exposed or concealed wiring in wet or dry locations

Structure:

- **Conductor:** Aluminum alloy conductor
- **Insulation:** XL insulation
- **Rated voltage:** 1000/2000V

Standard:

- UL Subject 4703 for TYPE PV
- UL 44 for TYPE RHW-2
- UL 854 for TYPE USE-2

UL File No.:

E365883

Voltage:

600V, 1000V, 2000V

Working temperature:

90°C MAX, -40°C MIN

Performance:

- Stable electrical properties over a broad temperature range
- Increased flexibility
- UV/sunlight-resistant



Printing:

Sample: COMMODITY CABLES (UL) E***** PV WIRE AL 750 kcmil 1000 / 2000V 90°C DRY OR WET -40°C
DIR BUR SUN RES ****FT

Technical data:

1000V/2000V

Size	Number of strands	Conductor Diameter	Insulation Thickness	Overall Diameter	Net Weight	Max. DC resistance at 20C
AWG/Kcmil	Nos	mm	mm	mm	kg/km	Ω/km
12	7	2.16	1.9	6	46	8.88
10	7	2.72	1.9	6.5	56	5.59
8	7	3.40	2.15	7.70	80	3.52
6	7	4.29	2.15	8.6	102	2.21
4	7	5.41	2.15	9.7	135	1.39
3	7	6.02	2.15	10.3	156	1.10
2	7	6.81	2.15	11.1	183	0.875
1	18	7.59	2.66	12.9	244	0.693
1/0	18	8.53	2.66	13.9	286	0.550
2/0	18	9.55	2.66	14.9	337	0.436
3/0	18	10.74	2.66	16.1	400	0.346
4/0	18	12.07	2.66	17.4	477	0.274
250	35	13.21	3.04	19.3	579	0.232
300	35	14.48	3.04	20.6	665	0.194
350	35	15.65	3.04	21.7	750	0.166
400	35	16.74	3.04	22.8	836	0.145
450	35	17.78	3.04	23.9	914	0.129
500	35	18.69	3.04	24.8	1028	0.116
550	58	19.69	3.43	26.6	1133	0.106
600	58	20.65	3.43	27.5	1217	0.0967
650	58	21.46	3.43	28.3	1298	0.0893
700	58	22.28	3.43	29.1	1382	0.0829
750	58	23.06	3.43	29.9	1463	0.0774
800	58	23.83	3.43	30.7	1543	0.0725
900	58	25.37	3.43	32.2	1707	0.0645
1000	58	26.92	3.43	33.8	1871	0.0580

600V

Size	Number of strands	Conductor Diameter	Insulation Thickness	Overall Diameter	Net Weight	Max. DC resistance at 20C
AWG/Kcmil	Nos	mm	mm	mm	kg/km	Ω/km
12	7	2.16	1.52	5.2	36	8.88
10	7	2.72	1.52	5.76	45	5.59
8	7	3.40	1.90	7.20	71.00	3.52
6	7	4.29	1.9	8.09	92	2.21
4	7	5.41	1.9	9.21	124	1.39
3	7	6.02	1.9	9.82	145	1.1
2	7	6.81	1.9	10.61	170	0.875
1	18	7.59	2.41	12.41	230	0.693
1/0	18	8.53	2.41	13.35	271	0.55
2/0	18	9.55	2.41	14.37	320	0.436
3/0	18	10.74	2.41	15.56	382	0.346
4/0	18	12.07	2.41	16.89	457	0.274
250	35	13.21	2.79	18.79	557	0.232
300	35	14.48	2.79	20.06	642	0.194
350	35	15.65	2.79	21.23	725	0.166
400	35	16.74	2.79	22.32	810	0.145
450	35	17.78	2.79	23.36	887	0.129
500	35	18.69	2.79	24.27	999	0.116
550	58	19.69	3.18	26.05	1103	0.106
600	58	20.65	3.18	27.01	1185	0.0967
650	58	21.46	3.18	27.82	1265	0.0893
700	58	22.28	3.18	28.64	1348	0.0829
750	58	23.06	3.18	29.42	1428	0.0774
800	58	23.83	3.18	30.19	1508	0.0725
900	58	25.37	3.18	31.73	1670	0.0645
1000	58	26.92	3.18	33.28	1832	0.058