

Aluminum 2KV Photovoltaic Cable



APPLICATION:

Aluminum 2KV Photovoltaic Cable is primarily used for interconnection wiring of grounded and ungrounded photovoltaic power systems. When installed in accordance with NEC article 690.31(C)(2), PV source and PV output circuits, single-conductor cable of all sizes can be installed in outdoor cable trays. The PV cable is for applications up to 2000 volts and temperatures from -40°C to +90°C wet or dry.

CONDUCTOR:

- Compact stranded 8000 Series Aluminum conductor per ASTM B800, B801, B836, B901

CABLE MARKING:

PRIORITY WIRE <AWG or KCMIL(mm²)> PV WIRE (UL) E340884 AL AA-8000 COMPACT STRAND XLPE RHH RHW-2 1KV/2KV 90°C -40°C SUN RES DIR BUR VW-1<YEAR> <SEQ FT> <Factory ID>

INSULATION:

- Cross-linked polyethylene (XLPE), gas/oil and sunlight resistant, direct burial rated
- Standard colors are black, red 8AWG-1000KCM and green in size 4AWG-1/0AWG. Other colors or stripes are available upon request

STANDARDS:

- ASTM B800, B801, B836, B901
- UL 44 RHH RHW, UL 854 USE-2, UL 4703 PV Wire, UL 2556
- CSA listed RPVU90 per CSA C22.2 No. 271
- ANSI/ICEA S-95-658/NEMA WC 70
- VW-1 flame test, Sunlight Resistant, Direct Burial

OPTIONS:

- 600V UL PV Wire, CSA RPV90 available upon request

Part Number	Conductor Size	No. of Strands	Insulation Thickness	Overall Diameter	Net Weight	DC Resistance at 20°C	Ampacity* at 90°C
	AWG/kcmil		inches	inches	lbs/kft	Ω/kft	amps
6-01ALPV-2KVXLP	6	7	0.085	0.34	56	0.6610	55
4-01ALPV-2KVXLP	4	7	0.085	0.38	76	0.4160	75
2-01ALPV-2KVXLP	2	7	0.085	0.44	107	0.2620	100
1-01ALPV-2KVXLP	1	18	0.105	0.51	143	0.2060	115
1/0-01ALPV-2KVXLP	1/0	18	0.105	0.55	171	0.1650	135
2/0-01ALPV-2KVXLP	2/0	18	0.105	0.59	203	0.1310	150
3/0-01ALPV-2KVXLP	3/0	18	0.105	0.63	245	0.1030	175
4/0-01ALPV-2KVXLP	4/0	18	0.105	0.69	295	0.0821	205
250-01ALPV-2KVXLP	250	35	0.120	0.76	353	0.0695	230
300-01ALPV-2KVXLP	300	35	0.120	0.81	411	0.0579	260
350-01ALPV-2KVXLP	350	35	0.120	0.86	467	0.0496	280
400-01ALPV-2KVXLP	400	35	0.120	0.90	525	0.0434	305
500-01ALPV-2KVXLP	500	35	0.120	0.98	622	0.0348	350
600-01ALPV-2KVXLP	600	58	0.135	1.08	756	0.0290	385
700-01ALPV-2KVXLP	700	58	0.135	1.15	836	0.0248	425
750-01ALPV-2KVXLP	750	58	0.135	1.18	913	0.0232	435
900-01ALPV-2KVXLP	900	58	0.135	1.27	1062	0.0193	480
1000-01ALPV-2KVXLP	1000	58	0.135	1.33	1180	0.0174	500
1250-01ALPV-2KVXLP	1250	58	0.155	1.51	1458	0.0142	545

All values are nominal and subject to correction

*Ampacities shown are for general use as specified by the National Electric Code, 2017 Edition, Table 310.15(B)(16) based on ambient temperature of 30 °C.



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