



## Aluminum 2kV Photovoltaic Cable



### Standard:

- 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

### 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

### 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.

### Conductors:

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

Cable Code	Conductor Size AWG/kcmil	No. Of Strands	Insulation Thickness		Overall Diameter		Net Weight lbs/kft	DC Resistance at 20°C	Ampacity at 90°C
			inches	mm	inches	mm		Ω/kft	amps
6 AWG 2kV PV WIRE	6	7	0,085	2,16	0,34	8,64	56	0,6610	55
4 AWG 2kV PV WIRE	4	7	0,085	2,16	0,38	9,65	76	0,4160	75
2 AWG 2kV PV WIRE	2	7	0,085	2,16	0,44	11,18	107	0,2620	100
1 AWG 2kV PV WIRE	1	18	0,105	2,67	0,51	12,95	143	0,2060	115
1/0 AWG 2kV PV WIRE	1/0	18	0,105	2,67	0,55	13,97	171	0,1650	135
2/0 AWG 2kV PV WIRE	2/0	18	0,105	2,67	0,59	14,99	203	0,1310	150
3/0 AWG 2kV PV WIRE	3/0	18	0,105	2,67	0,63	16,00	245	0,1030	175
4/0 AWG 2kV PV WIRE	4/0	18	0,105	2,67	0,69	17,53	295	0,0821	205
250 AWG 2kV PV WIRE	250	35	0,120	3,05	0,76	19,30	353	0,0695	230
300 AWG 2kV PV WIRE	300	35	0,120	3,05	0,81	20,57	411	0,0579	260
350 AWG 2kV PV WIRE	350	35	0,120	3,05	0,86	21,84	467	0,0496	280
400 AWG 2kV PV WIRE	400	35	0,120	3,05	0,90	22,86	525	0,0434	305
500 AWG 2kV PV WIRE	500	35	0,120	3,05	0,98	24,89	622	0,0348	350
600 AWG 2kV PV WIRE	600	58	0,135	3,43	1,080	27,43	756	0,0290	385
700 AWG 2kV PV WIRE	700	58	0,135	3,43	1,150	29,21	836	0,0248	425
750 AWG 2kV PV WIRE	750	58	0,135	3,43	1,180	29,97	913	0,0232	435
900 AWG 2kV PV WIRE	900	58	0,135	3,43	1,270	32,26	1062	0,0193	480
1000 AWG 2kV PV WIRE	1000	58	0,135	3,43	1,330	33,78	1180	0,0174	500
1250 AWG 2kV PV WIRE	1250	58	0,135	3,43	1,510	38,35	1453	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.