



Aluminum 600V Photovoltaic Cable



Standard:

- ASTM B800, B801, B836, B901
- UL listed PV Wire per UL 4703
- Type RHH/RHW-2 or USE-2 per UL 44 and UL 854
- VW-1, UL listed
- Sunlight Resistant, UL listed
- Direct Burial 6AWG and larger, UL listed

Insulation:

Cross-linked polyethylene (XLP), oil and sunlight resistant, direct burial rated

Application:

Aluminum PV Photovoltaic Cable is suitable for use as interconnection wiring of grounded and ungrounded photovoltaic power systems. The cable is for applications up to 600 volts and temperatures from -40°C to +90°C wet or dry.

Conductors:

Compact or compressed round stranded 8000 series aluminum alloy conductor

Cable Code	Conductor Size AWG/kcmil	No. Of Strands	Insulation Thickness		Overall Diameter		Net Weight lbs/kft	DC Resistance at 20°C Ω/kft	Ampacity at 90°C amps
			inches	mm	inches	mm			
8 AWG 600V PV WIRE	8**	7	0,075	1,91	0,29	7,37	42	1,0504	45
6 AWG 600V PV WIRE	6	7	0,075	1,91	0,32	8,13	51	0,6609	55
4 AWG 600V PV WIRE	4	7	0,075	1,91	0,36	9,14	71	0,4155	75
2 AWG 600V PV WIRE	2	7	0,075	1,91	0,42	10,67	101	0,2613	100
1 AWG 600V PV WIRE	1	19	0,095	2,41	0,49	12,45	136	0,2072	115
1/0 AWG 600V PV WIRE	1/0	19	0,095	2,41	0,53	13,46	163	0,1642	135
2/0 AWG 600V PV WIRE	2/0	19	0,095	2,41	0,57	14,48	195	0,1303	150
3/0 AWG 600V PV WIRE	3/0	19	0,095	2,41	0,61	15,49	236	0,1033	175
4/0 AWG 600V PV WIRE	4/0	19	0,095	2,41	0,67	17,02	286	0,082	205
250 AWG 600V PV WIRE	250	37	0,110	2,79	0,74	18,80	343	0,0694	230
300 AWG 600V PV WIRE	300	37	0,110	2,79	0,79	20,07	400	0,0578	260
350 AWG 600V PV WIRE	350	37	0,110	2,79	0,84	21,34	455	0,0495	280
400 AWG 600V PV WIRE	400	37	0,110	2,79	0,88	22,35	501	0,0434	305
500 AWG 600V PV WIRE	500	37	0,110	2,79	0,96	24,38	608	0,0347	350
600 AWG 600V PV WIRE	600	61	0,125	3,18	1,060	26,92	737	0,0289	385
750 AWG 600V PV WIRE	750	61	0,125	3,18	1,160	29,46	868	0,0231	435
1000 AWG 600V PV WIRE	1000	61	0,125	3,18	1,310	33,27	1161	0,0173	500

All values are nominal and subject to correction

*Ampacities are based on Table 310.15(B)(16) of the NEC 2017 Edition for no more than three current carrying conductors at conductor temperatures of 90°C, and ambient temperature of 30°C

**Not rated for direct burial