



POWER KABEL INC.

Photovoltaic (PV) Wire ALUMINUM 600V

APPLICATIONS & FEATURES

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

INDUSTRY COMPLIANCES

- ASTM B800, 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 ASTM B3, B8 and B787
- UL 44, UL 83, UL 854, UL Subject 4703, C (UL)
- Direct Burial Rated Flame Rated: VW-1 per UL 2556 Federal Spec. A-A-59544

CONSTRUCTION

CONDUCTORS:	Compact or compressed round stranded 8000 series aluminum alloy conductor
INSULATION:	Cross-linked polyethylene (XLP), oil and sunlight resistant, direct burial rated

AWG	NUMBER OF STRANDS	INSULATION THICKNESS (MILS)	APPROX. O.D. (INCHES)	APPROXIMATE WEIGHT/1000 FT	DC RESISTANCE @20°C (Ω/kft.)	AMPACITY* @90°C (AMPS)
8#	7	0.075	0.292	42	1.0504	45
6	7	0.075	0.319	51	0.6609	55
4	7	0.075	0.363	71	0.4155	75
2	7	0.075	0.418	101	0.2613	100
1	19	0.095	0.489	136	0.2072	115
1/0	19	0.095	0.526	163	0.1642	135
2/0	19	0.095	0.566	195	0.1303	150
3/0	19	0.095	0.613	236	0.1033	175
4/0	19	0.095	0.665	286	0.082	205
250	37	0.11	0.74	343	0.0694	230
300	37	0.11	0.79	400	0.0578	260
350	37	0.11	0.836	455	0.0495	280
400	37	0.11	0.879	501	0.0434	305
500	37	0.11	0.956	608	0.0347	350
600	61	0.125	1.063	737	0.0289	385
750	61	0.125	1.158	896	0.0231	435
1000	61	0.125	1.31	1161	0.0173	500

All values are nominal and subject to correction

Not rated for direct burial

*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.