

Aluminum 600V Photovoltaic Cable



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.

CONDUCTOR:

- Compact or compressed round stranded 8000 series aluminum alloy conductor

INSULATION:

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

STANDARDS:

- 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

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		Ω/kft	amps
8-01XLPALUSEPV	8**	7	0.075	0.29	42	1.0504	45
6-01XLPALUSEPV	6	7	0.075	0.32	51	0.6609	55
4-01XLPALUSEPV	4	7	0.075	0.36	71	0.4155	75
2-01XLPALUSEPV	2	7	0.075	0.42	101	0.2613	100
1-01XLPALUSEPV	1	19	0.095	0.49	136	0.2072	115
1/0-01XLPALUSEPV	1/0	19	0.095	0.53	163	0.1642	135
2/0-01XLPALUSEPV	2/0	19	0.095	0.57	195	0.1303	150
3/0-01XLPALUSEPV	3/0	19	0.095	0.61	236	0.1033	175
4/0-01XLPALUSEPV	4/0	19	0.095	0.67	286	0.0820	205
250-01XLPALUSEPV	250	37	0.110	0.74	343	0.0694	230
300-01XLPALUSEPV	300	37	0.110	0.79	400	0.0578	260
350-01XLPALUSEPV	350	37	0.110	0.84	455	0.0495	280
400-01XLPALUSEPV	400	37	0.110	0.88	501	0.0434	305
500-01XLPALUSEPV	500	37	0.110	0.96	608	0.0347	350
600-01XLPALUSEPV	600	61	0.125	1.06	737	0.0289	385
750-01XLPALUSEPV	750	61	0.125	1.16	896	0.0231	435
1000-01XLPALUSEPV	1000	61	0.125	1.31	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



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