

Copper Photovoltaic Cable



APPLICATION:

Copper Photovoltaic Cable is primarily used for interconnection wiring of grounded and ungrounded photovoltaic power systems. The cable is for applications up to 600V or 2KV per rated voltage and temperatures from -40°C to +90°C wet or dry.

CONDUCTOR:

- Stranded copper conductor per ASTM B3, B8, or B787

INSULATION:

- Cross-linked polyethylene (XLPE), gas/oil and sunlight resistant, direct burial rated

STANDARDS:

- ASTM B3, B8, or B787
- UL listed PV wire per UL4703
- RHH RHW-2 USE-2 per UL 44, UL 854
- Sunlight Resistant & Direct Burial, UL listed
- VW-1 flame test

Part Number	Conductor Size	No. of Strands	Insulation Thickness	Overall Diameter	Net Weight	DC Resistance at 20°C	Ampacity* at 90°C
	AWG/kcmil		mils	mils	lbs/kft	Ω/kft	amps
2KV Copper PV							
14-01CUPV	14	7	75	223	32	2.5800	25*
12-01CUPV	12	7	75	241	41	1.6300	30*
10-01CUPV	10	7 or 19	75	266	57	1.0200	40*
8-01CUPV	8	7 or 19	85	316	86	0.6400	55
6-01CUPV	6	7	85	354	121	0.4030	75
4-01CUPV	4	7	85	402	176	0.2530	95
2-01CUPV	2	7	85	462	261	0.1590	130
1-01CUPV	1	19	105	542	338	0.1270	145
1/0-01CUPV	1/0	19	105	582	413	0.1000	170
2/0-01CUPV	2/0	19	105	628	506	0.7950	195
3/0-01CUPV	3/0	19	105	680	627	0.0630	225
4/0-01CUPV	4/0	19	120	738	773	0.0500	260
250-01CUPV	250	37	120	815	924	0.0423	290
300-01CUPV	300	37	120	870	1091	0.0353	320
350-01CUPV	350	37	120	921	1205	0.0302	350
400-01CUPV	400	37	120	968	1375	0.0264	380
500-01CUPV	500	37	120	1053	1700	0.0212	430
600-01CUPV	600	61	135	1163	2032	0.0181	475
750-01CUPV	750	61	135	1268	2515	0.0141	535
1000-01CUPV	1000	61	135	1422	3335	0.0106	615
600V Copper PV							
10-01XLPUSEPV	10	7 or 19	60	240	53	1.020	40*
8-01XLPUSEPV	8	7 or 19	75	304	78	0.640	55

All values are nominal and subject to correction

*Refer to NEC 240.4(D) for conductor overcurrent protection limitations.

**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.



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