PV-SOLAR

Copper Photovoltaic Cable

APPLICATION:

Copper 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 cables 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 conditions. 105°C dry and 90°C wet rated cable is available upon request.

CONDUCTOR:

- Stranded copper conductor

INSULATION:

- Solid-colored shrinkback resistant cross-linked polyethylene (XLPE), gas/oil and sunlight resistant, direct burial rated
- Colors Available: Black, Red, White & Green. Other colors or black insulation with extruded stripes are available upon request

STANDARDS:

- ASTM B3, B8, B173
- UL listed PV wire per UL4703
- RHH RHW-2 per UL 44, USE-2 per UL 854
- ANSI/ICEA S-95-658/NEMA WC 70
- NEC Article 310, 690.31
- VW-1, UV/Sunlight Resistant & Direct Burial

CABLE MARKINGS:

- **Class B stranding:** PRIORITY WIRE <AWG or kcmil (mm2)> PV WIRE (UL) E340884 CU XLPE RHH RHW-2 1kV/2kV 90° (-40°) VW-1 SUN RES DIR BUR <YEAR> <FACTORY ID> <SEQ FT>
- **Class C stranding:** PRIORITY WIRE <AWG or kcmil (mm2)> PV WIRE (UL) E340884 CU CLASS C XLPE RHH RHW-2 1kV/2kV 90° (-40°) VW-1 SUN RES DIR BUR <YEAR> <FACTORY TRACKING CODE> <FACTORY ID> <SEQ FT>
- **Class G stranding:** PRIORITY WIRE <AWG or kcmil (mm2)> PV WIRE (UL) E340884 CU CLASS G XLPE RHH RHW-2 1kV/2kV 90° (-40°) VW-1 SUN RES DIR BUR <YEAR> <FACTORY TRACKING CODE> <FACTORY ID> <SEQ FT>

Part Number	Conductor Size	No. of Strands	Insulation Thickness	Overall Diameter	Net Weight	Ampacity*		
						at 90°C	at 90°C	at 90°C
	AWG/kcmil		inches	inches	lbs/kft	amps	amps	amps
2KV Copper PV								
14-01CUPV-2KV	14^	7	0.075	0.223	32	15	20	25
12-01CUPV-2KV	12^	7	0.075	0.241	41	20	25	30
10-01CUPV-2KV	10^	7	0.075	0.266	57	30	35	40
10-01CUPV19STR-2KV	10^	19[C]	0.075	0.267	57	30	35	40
8-01CUPV-7STR2KVXLP	8	7	0.085	0.316	86	40	50	55
8-01CUPV-2KVXLP	8	19[C]	0.085	0.317	86	40	50	55
8-01CUPV-49STR2KVXLP	8	49[G]	0.085	0.332	90	40	50	55
6-01CUPV-2KVXLP	6	7	0.085	0.354	120	55	65	75
6-01CUPV-19STR2KVXLP	6	19[C]	0.085	0.356	120	55	65	75
6-01CUPV-49STR2KVXLP	6	49[G]	0.085	0.375	124	55	65	75

All values are nominal and subject to correction
**Allowable Ampacities shown are for general use as specified by the National Electric Code, 2020 Edition, Table 310.16 based on ambient temperature of 30˚C.*
^ Refer to NEC 240.4(D) for conductor overcurrent protection limitations.
[C]Class C stranding
[G]Class G stranding

#5020-01

RoHS COMPLIANT

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PRIORITY WIRE & CABLE, INC.

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