



Photovoltaic Wire ServiceSolar® (for use with Solar Panels)

**VW-1, USE-2 or RHH or RHW-2
1,000/2,000 Volt Copper**

Description:

Single copper conductor, stranded and insulated with moisture and heat resistant crosslinked polyethylene. Rated 2KV to meet the challenging requirements of transformerless inverters on photovoltaic (solar) panel installations. **Available in colors.**

Application:

Suitable for use as interconnection wiring on solar panels in grounded or ungrounded systems as defined in applicable parts of the National Electrical Code (NEC) NFPA 70, such as article 690.31(A). Suitable for use in 105°C dry systems. Also suitable for use in low leakage circuits requiring a dielectric constant of 3.5 or less (Hospital Grade).

Standards:

ASTM Standards:

- B-3 (soft or annealed)
- B-8 (concentric lay stranded)
- B787 (combination strand)

UL 44, UL 854 and UL 4703

C(UL) RPVU90 1kV/2kV

ICEA S-95-658/NEMA WC-70

Federal Spec. A-A-59544

Flame Rated: VW-1/FT1

CT Use (1/0 AWG and larger)

Temperature Rated at 90°C Wet/Dry

Cold Temperature Rated at -40°C

Sunlight Resistant

Gasoline and Oil Resistant II

Direct Burial

RoHS Compliant

Part Number	Size AWG or Kcmil	Strand (no.)	Insulation Thickness (mils)	Nominal Diameter Overall (inch)	Approx. Net Weight (lb/1000')	Ampacity* 90°C Wet/Dry
XLPE PV / 1KV / 2KV RHH / RHW-2	PV2K14VW	14	7	75	0.223	35 †
	PV2K14VW-C	14	19	75	0.223	35 †
	PV2K12VW	12	7	75	0.242	40 †
	PV2K12VW -C	12	19	75	0.242	40 †
	PV2K10VW	10	7	75	0.266	55 †
	PV2K10VW-C	10	19	75	0.266	55 †
	PV2K8VW	8	7	85	0.316	86
	PV2K8VW-C	8	19	85	0.316	86
	PV2K6VW	6	7	85	0.354	122
	PV2K4VW	4	7	85	0.402	177
	PV2K3VW	3	7	85	0.430	215
	PV2K2VW	2	7	85	0.462	262
	PV2K1VW	1	19	105	0.531	338
	PV2K1/0VW	1/0	19	105	0.570	413
	PV2K2/0VW	2/0	19	105	0.614	506
	PV2K3/0VW	3/0	19	105	0.664	623
	PV2K4/0VW	4/0	19	105	0.720	768
	PV2K250VW	250	37	120	0.815	920
	PV2K300VW	300	37	120	0.869	1,086
	PV2K350VW	350	37	120	0.921	1,260
PV2K400VW	400	37	120	0.968	1,416	
PV2K500VW	500	37	120	1.053	1,752	
PV2K600VW	600	61	135	1.163	2,099	
PV2K750VW	750	61	135	1.268	2,587	

*Based on ambient temperature of 30°C per NEC Table 310-17.

†The overcurrent protection for items marked with an obelisk (†) shall not exceed 15 amps for #14 AWG, 20 amps for #12 AWG, and 30 amps for #10 AWG per NEC 310-17 footnote.

NOTE: The data shown is approximate and subject to standard industry tolerances.

NOTE: Photovoltaic module interconnection wire for use with or without a raceway in accordance with wiring systems Article 690 in the National Electrical Code (NEC), NFPA 70.