



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	0.22	35	35 †
	PV2K14VW-C	14	19	75	0.22	35	35 †
	PV2K12VW	12	7	75	0.24	46	40 †
	PV2K12VW -C	12	19	75	0.24	46	40 †
	PV2K10VW	10	7	75	0.27	62	55 †
	PV2K10VW-C	10	19	75	0.27	62	55 †
	PV2K8VW	8	7	85	0.31	90	80
	PV2K8VW-C	8	19	85	0.31	90	80
	PV2K6VW	6	7	85	0.35	128	105
	PV2K4VW	4	7	85	0.40	187	140
	PV2K3VW	3	7	85	0.42	226	165
	PV2K2VW	2	7	85	0.45	276	190
	PV2K1VW	1	19	105	0.53	349	220
	PV2K1/0VW	1/0	19	105	0.57	427	260
	PV2K2/0VW	2/0	19	105	0.61	525	300
	PV2K3/0VW	3/0	19	105	0.66	646	350
	PV2K4/0VW	4/0	19	105	0.72	798	405
	PV2K250VW	250	37	120	0.81	935	455
	PV2K300VW	300	37	120	0.87	1,105	500
	PV2K350VW	350	37	120	0.92	1,273	570
	PV2K400VW	400	37	120	0.96	1,439	615
	PV2K500VW	500	37	120	1.04	1,769	700
	PV2K600VW	600	61	135	1.16	2,118	780
	PV2K750VW	750	61	135	1.26	2,609	885

*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.