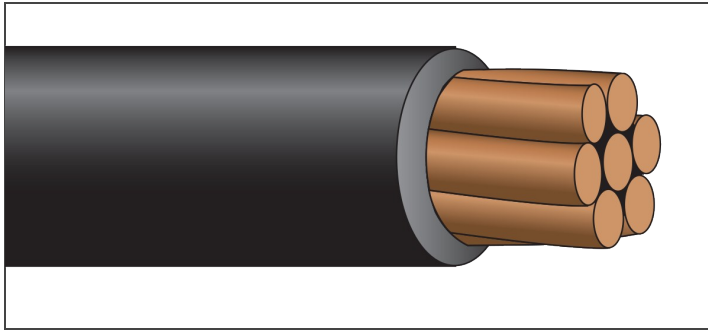


SINGLE CONDUCTORS



SERVICESOLAR® (PV) RPVU90

1,000/2,000 Volt Copper, FT-1
No Pulling Lubricant Required



Description:

Single copper conductor, stranded and insulated with moisture and heat resistant, chemically crosslinked polyethylene. ServicePRO-X® Insulation—No Pulling Lubricant Required (#6 AWG and larger). Rated 1kV/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 RHW-2, UL 854 USE-2, and UL 4703 PV Wire
CSA RPVU90 1kV/2kV: CSA C22.2 No. 271
ICEA S-95-658/NEMA WC-70
Flame Rated: 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	Strand (no.)	Insulation Thickness (mils)	Nominal Diameter Overall (in.)	Approx. Net Weight (lb./1000')	Ampacity* 90°C Wet/Dry
	AWG or Kcmil					
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 310.15 (B)(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: 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. NOTE: The data shown is approximate and subject to standard industry tolerances.