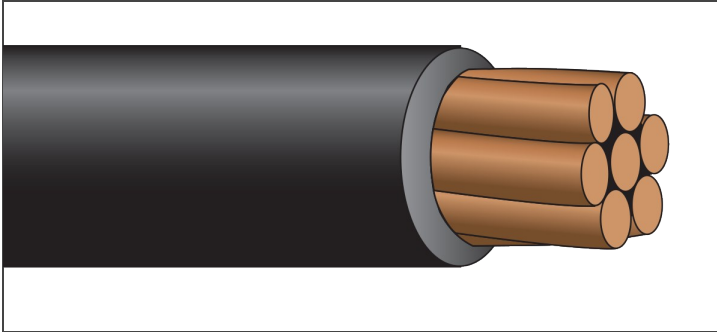


SINGLE CONDUCTOR



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
C(UL) RPVU90 1kV/2kV: CSA C22.2 #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 (AWG or Kcmil)	Strand (no.)	Insulation Thickness (mils)	Nominal Diameter Overall (in.)	Approx. Net Weight (lb./1000')	Ampacity* 90°C Wet/Dry
PV14VW	14	7	60	0.19	29	35†
PV14VW-C	14	19	60	0.19	29	35†
PV12VW	12	7	60	0.21	39	40†
PV12VW-C	12	19	60	0.21	39	40†
PV10VW	10	7	60	0.24	54	55†
PV10VW-C	10	19	60	0.24	54	55†
PV8VW	8	7	75	0.29	84	80
PV8VW-C	8	19	75	0.29	84	80
PV6VW	6	7	75	0.33	121	105
PV4VW	4	7	75	0.38	178	140
PV3VW	3	7	75	0.40	211	165
PV2VW	2	7	75	0.43	266	190
PV1VW	1	19	95	0.51	339	220
PV1/0VW	1/0	19	95	0.55	416	260
PV2/0VW	2/0	19	95	0.59	512	300
PV3/0VW	3/0	19	95	0.64	631	350
PV4/0VW	4/0	19	95	0.70	782	405
PV250VW	250	37	110	0.79	919	455
PV300VW	300	37	110	0.85	1,081	500
PV350VW	350	37	110	0.90	1,254	570
PV400VW	400	37	110	0.94	1,417	615
PV500VW	500	37	110	1.02	1,747	700
PV600VW	600	61	125	1.14	2,112	780
PV750VW	750	61	125	1.24	2,597	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: 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.