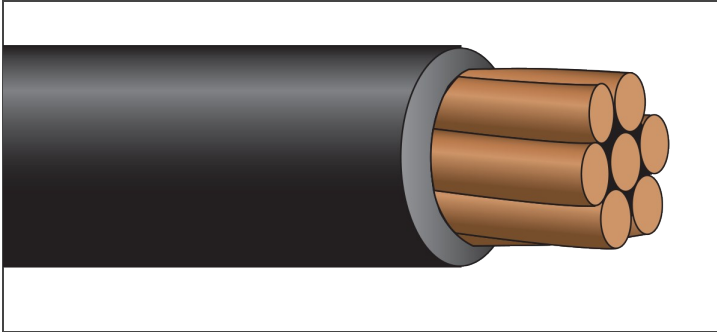


SINGLE CONDUCTOR



SERVICESOLAR® (PV) RPVU90

1,000/2,000 Volt Copper
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: FV1, 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
PV14BK	14	7	60	0.19	25	35†
PV14BK-C	14	19	60	0.19	25	35†
PV12BK	12	7	60	0.21	34	40†
PV12BK-C	12	19	60	0.21	34	40†
PV10BK	10	7	60	0.24	48	55†
PV10BK-C	10	19	60	0.24	48	55†
PV8BK	8	7	75	0.29	75	80
PV8BK-C	8	19	75	0.29	75	80
PV6BK	6	7	75	0.33	109	105
PV4BK	4	7	75	0.38	162	140
PV3BK	3	7	75	0.40	198	165
PV2BK	2	7	75	0.43	243	190
PV1BK	1	19	95	0.51	316	220
PV1/0BK	1/0	19	95	0.55	389	260
PV2/0BK	2/0	19	95	0.59	481	300
PV3/0BK	3/0	19	95	0.64	595	350
PV4/0BK	4/0	19	95	0.70	738	405
PV250BK	250	37	110	0.79	875	455
PV300BK	300	37	110	0.85	1,037	500
PV350BK	350	37	110	0.90	1,198	570
PV400BK	400	37	110	0.94	1,358	615
PV500BK	500	37	110	1.02	1,676	700
PV600BK	600	61	125	1.14	2,021	780
PV750BK	750	61	125	1.24	2,497	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.