

Product Data Sheet

2kV Rated Aluminum PV Wire

SCOPE:

This specification covers single conductor, UL listed, 2000 volt rated PV (photovoltaic) wire used in solar applications. The cable consists of a compact stranded Series 8000 aluminum alloy conductor insulated with cross-linked polyethylene (XLPE). The cable is constructed in accordance with UL 4703. The cable is rated for 2000 V, 90°C wet or dry, and for -40°C cold temperature applications. The cable is sunlight resistant and is suitable for direct burial. The cable meets USE-2 rating requirements specified in UL 854.

APPLICABLE STANDARDS:

The cables produced under this specification will comply with all applicable requirements of the following standards, which are the principle standards of this product:

- **UL 44** – Standard for Thermoset-Insulated Wires and Cables
- **UL 854** – Specification for Service entrance cables rated USE, USE-2 and SE
- **UL 4703** – Specification for Photovoltaic Wire rated 600, 1000 or 2000V
- **IEEE 1202 FT4** – For sizes 1/0 and larger.

CABLE DESCRIPTION:

Cable conductors conform to the following:

- **Size:** 8 AWG to 1000 KCMIL
- **Stranding:** Compact stranding, Class B
- **Material:** Stranded Series 8000 Aluminum
- **Number of Conductors:** One

Cable insulation conforms to the following:

- **Insulation Material:** Cross-linked polyethylene (XLPE)
- **Wall Thickness:** Between 0.085 and 0.135 inches, depending on size. The minimum average thickness shall not be less than 90% of the nominal thickness.
- **Cable Outer Diameter:** Given in table below
- **Cable Weight:** Given in table below
- **Available Jacket Colors:** Black, White, or Red
- **Available Stripe Colors:** None, White, or Red

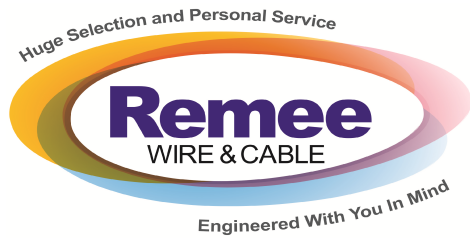


SURFACE MARKINGS

Cables shall be identified by means of surface print of white color. Sequential footage markers can be added upon request. A typical print legend is given below:

REMEE (UL CONTROL) ____ AWG (____ MM²) AL (UL) PV WIRE 2000V 90°C DRY OR WET (-40°C) XLPE SUN RES DIRECT BURIAL RHH/RHW-2 2000V ROHS

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NOMINAL CABLE WEIGHTS AND DIMENSIONS:

PN**	Size (AWG/KCMIL)	Number of Strands	Insulation Thickness (Mils)	Overall diameter (Mils)	Approximate Weight (lb/kft)	Ampacity 90°C
PV00807AL	8	7	85	303	40	60
PV00607AL	6	7	85	338	53	85
PV00407AL	4	7	85	382	73	115
PV00207AL	2	7	85	437	103	150
PV00119AL	1	19	105	511	136	175
PV01019AL	1/0	19	105	547	162	205
PV02019AL	2/0	19	105	589	194	235
PV03019AL	3/0	19	105	635	233	270
PV04019AL	4/0	19	105	688	282	315
PV25037AL	250	37	120	764	339	355
PV30037AL	300	37	120	814	394	395
PV35037AL	350	37	120	860	449	445
PV40037AL	400	37	120	903	503	480
PV50037AL	500	37	120	981	610	545
PV60061AL	600	61	135	1083	737	615
PV70061AL	700	61	135	1148	843	670
PV75061AL	750	61	135	1179	895	700
PV100061AL	1000	61	135	1319	1157	845

Ampacities in accordance with NEC Table 310.15(B)(17): Single-Insulated Conductors
 Rated Up to and Including 2000 Volts in Free Air, Based on Ambient Temperature of 30°C
 (86°F) **PN listing does not include put-up or jacket color

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