

## PHOTOVOLTAIC WIRE AL 2KV TYPE PV

### CONSTRUCTION PARAMETERS

**INSULATION:** Flame retardant Cross-Linked Polyethylene (XLPE)  
**INSULATION COLOR:** Black or Red

### PRODUCT FEATURES

**TEMPERATURE RATINGS:** 90°C Dry, 90°C Wet  
Rated for direct burial, moisture resistant, meets cold bend & cold impact test at -40°C

**VOLTAGE RATING:** 2,000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31 (A) and other applicable parts of the National Electrical Code (NEC), NFPA 70

### STANDARDS & APPROVALS:



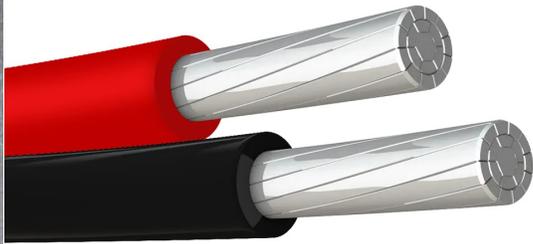
UL 44 Type RHH/RHW-2, 2000V, UV/Sunlight Resistant  
UL 854 Type USE-2  
UL 4703 Type PV  
ASTM B800 , B801, B836  
Flame Test: UL 1581 VW-1  
Sizes 1/0 AWG and larger rated for CT use  
ROHS, EPA 40 CFR, Part 26, Subpart C, heavy metals per Table 1, TLCP method

KINGWIRE AL 2KV TYPE PV <i>Physical Characteristics</i>								
Conductor Size	Stranding	Conductor Nominal Diameter	Insulation Thickness	Nominal Outside Diameter	AL Weight	Nominal Net Weight	Maximum Pulling Tension	Minimum Bending Radius*
AWG/Kcmil	No.	inch	mils	inch	lb/1000ft	lb/1000ft	lb	inch
300 <sup>^</sup>	36/w	0.570	120	0.810	282	412	1800	3.2
350	36/w	0.614	120	0.854	329	479	2100	3.4
400	36/w	0.657	120	0.897	377	548	2400	3.6
500	36/w	0.736	120	0.976	471	685	3000	3.9
600	60/w	0.813	135	1.083	565	822	3600	5.4
750	60/w	0.908	135	1.178	706	1027	4500	5.9

Note: All dimensions and weights are subject to industry standards and tolerance unless otherwise noted.

<sup>^</sup>Non-stock item

\*Minimum bending radius shown applies to permanent training. Larger radius should be used during cable pulling.



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KINGWIRE AL 2KV TYPE PV		Electrical Characteristics			
Conductor Size	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance <sup>+</sup>	Ampacity* @ 75°C	Ampacity* @ 90°C
AWG/Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	amps	amps
300 <sup>^</sup>	0.059	0.071	0.041	230	260
350	0.051	0.062	0.040	250	280
400	0.044	0.054	0.040	270	305
500	0.035	0.044	0.039	310	350
600	0.029	0.036	0.039	340	385
750	0.024	0.031	0.038	385	435

\*Ampacities are based on NEC 2023 Table 310.16, Ampacities of Insulated Conductors in Raceway, Cable, or Earth (Directly Buried). Not more than 3 current-carrying conductors. Ambient temperature of 30°C  
+Inductive reactance based on NEC 2023 Table 9, 600-Volt Cables, 3-Phase, 60 Hz, 75°C, 3-1/C in Conduit (PVC or Aluminum)  
<sup>^</sup>Non-stock item