

# 2kV Aluminum PV Wire

## CONSTRUCTION AT A GLANCE

**CONDUCTOR TYPE** ①  
ALUMINUM

**INSULATION TYPE** ②  
XLPE

### APPLICATIONS

- For use in solar power applications per NEC Article 690
- Rated 90°C for exposed or concealed wiring in wet or dry locations
- Rated for direct burial conduit

### CONSTRUCTION DETAILS

- Aluminum conductors are AlumaFlex™ AA-8176 series aluminum alloy, compact stranded
- XLPE insulation
- -40°C to +90°C
- Sunlight resistant
- RoHS compliant
- Direct burial
- Sample print: SOUTHWIRE E316464 (UL) PV WIRE 6 AWG (13.3mm<sup>2</sup>) COMPACT AL.—ALUMAFLEXTM AA8176 2000V 90°C WET OR DRY (-40°C) SUN RES DIRECT BURIAL OR RHW-2 2000V – RoHS

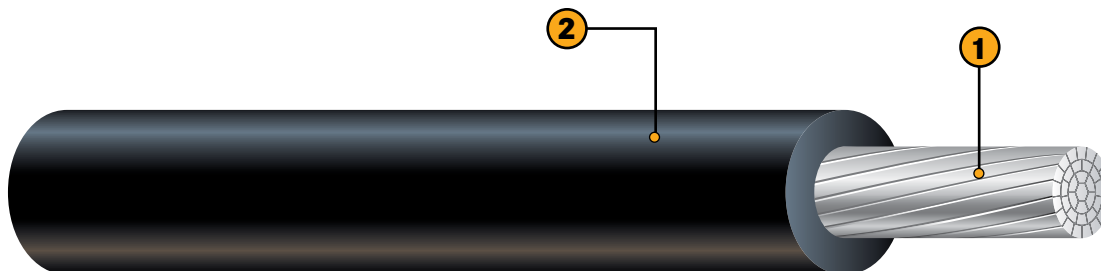
### SPECIFICATIONS

Southwire 2kV Aluminum Photovoltaic Wire meets the requirements of the following:

- UL Subject 4703 for TYPE PV
- UL 44 for TYPE RHW-2
- UL 854 for TYPE USE-2

### OPTIONS

- CT rated
- 600V configurations available upon request
- Cable tray use



Size (AWG or kcmil)	Number of Strands	Insulation Thickness (in)	Nominal O.D. (in)	Allowable Ampacities*			Net Weight
				60 °C	75 °C	90 °C	
6	7	0.085	0.339	40	50	60	55
4	7	0.085	0.383	55	65	75	75
2	6	0.085	0.438	75	90	100	104
1/0	10	0.105	0.546	100	120	135	164
2/0	12	0.105	0.586	115	135	150	196
3/0	16	0.105	0.633	130	155	175	235
4/0	19	0.105	0.685	150	180	205	284
250	22	0.120	0.760	170	205	230	342
350	35	0.120	0.856	210	250	280	452
500	35	0.120	0.976	260	310	350	614
750	58	0.135	1.178	320	385	435	902
1000	58	0.135	1.330	375	445	500	1166

\*Allowable Ampacities:

Allowable ampacities shown are for general use as specified by the NEC, 2008 Edition, section 310.15.

60 °C—When terminated to equipment for circuits rated 100 amperes or less or marked for 14 AWG through 1 AWG conductors.

75 °C—When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.

90 °C—Wet or dry locations. For ampacity derating purposes.

