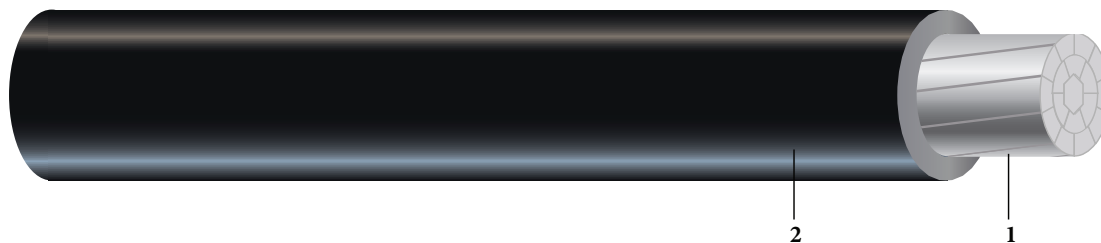


Super Sunlight Resistant (SSR™) 2000 Volt Aluminum Type PV

Single Conductor Photovoltaic (Type PV) Power Cable 2000 Volt Aluminum Conductor XLPE Insulation. Sizes 6AWG through 1000 kcmil. Heat, Moisture, and Sunlight Resistant RoHS. 90°C



Images not to scale.

CONSTRUCTION:

1. Conductors: AlumaFlex® Compact Stranded Aluminum Alloy (AA-8176)
2. Insulation: Southwire's Super Sunlight Resistant (SSR™) Cross-linked Polyethylene (XLPE)

APPLICATIONS AND FEATURES:

Southwire's new Super Sunlight Resistant – SSR Type PV cables are leading the industry with features such as enhanced UV stability, color permanence and aged physical properties, providing you with the most reliable solutions for your PV wiring systems. The cable is available in sizes 6 AWG through 1000 kcmil. The product is approved for use in solar power applications per the NEC article 690 and is rated 90°C for exposed or concealed wiring in wet or dry locations. Individual conductors are stranded aluminum alloy covered with a cross-linked polyethylene (XLPE) insulation and is rated for direct burial. The cable is sunlight resistant, RoHS compliant, passes -40°C cold bend, and is VW-1 rated.

SPECIFICATIONS:

- AA 8176 Stranded Aluminum Alloy Conductors
- ASTM 836 Compact Round Aluminum Conductors
- UL 854 for USE-2
- UL 44 for Type RHW-2
- UL 4703 for Type PV

SAMPLE PRINT LEGEND:

SOUTHWIRE SSR™ E316464 (UL) PV WIRE XX AWG (XX.X mm²) COMPACT AL.— ALUMAFLEX® AA8176 2000V 90°C WET OR DRY (-40°C) SUN RES DIRECT BURIAL OR RHH-RHW-2 2000V — RoHS



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | www.southwire.com



Super Sunlight Resistant 2000 Volt Aluminum Single Conductor Photovoltaic Wire (Type PV)

Stock Number (TBD)	Color	Conductor			Insulation Thickness	Average Overall Diameter	DC Resistance @ 20°C	Min. Bend Radius	Max Pulling Tension	Approx. Weight	Allowable Ampacities			
		Size	Strands	Diameter							In Air*		In Duct**	
											75°C	90°C	75°C	90°C
		AWG/kcmil		inches	mils	inches	Ω/1000 ft.	inches	lbs	lbs./kft	amps	amps	amps	amps
Black														
643576	black	6	7	0.169	85	0.339	0.6610	2.71	157	55	75	85	50	55
643580	black	4	7	0.213	85	0.383	0.4160	3.06	250	75	100	115	65	75
643583	black	1	8	0.299	105	0.509	0.2070	4.07	398	135	155	175	100	115
643587	black	1/0	10	0.336	105	0.546	0.1640	4.37	1,800	164	180	205	120	135
643590	black	2/0	12	0.376	105	0.586	0.1300	4.69	502	196	210	235	135	150
643594	black	3/0	16	0.423	105	0.633	0.1030	5.06	502	235	240	270	155	175
643597	black	4/0	19	0.475	105	0.685	0.0820	5.48	634	284	280	315	180	205
641821	black	250	22	0.520	120	0.760	0.0694	6.08	634	342	315	355	205	230
641818	black	300	35	0.570	120	0.810	0.0578	6.48	799	390	350	395	230	260
641815	black	350	35	0.616	120	0.856	0.0495	6.85	1,007	452	395	445	250	280
641812	black	400	35	0.659	120	0.899	0.0434	7.19	1,007	550	425	480	270	305
641492	black	500	35	0.736	120	0.976	0.0347	7.81	1,270	614	485	545	310	350
641495	black	600	58	0.813	120	1.053	0.0289	8.42	1,270	806	545	615	340	385
641499	black	750	58	0.908	135	1.178	0.0231	9.42	1,270	902	620	700	385	435
641930	black	1000	58	1.060	135	1.330	0.0173	10.64	1,500	1166	750	845	445	500

NOTE: Ampacity values are taken directly from the NEC tables referenced below. Actual allowable ampacities may vary based on deratings for temperature, number of cables, duty cycles and other factors.

* Ampacities based on Table 310.15(B)(17) of the National Electrical Code® for single insulated conductors rated up to and including 2000 volts in free air. Based on Ambient Temperature of 30°C (86°F)

** Ampacities based on Table 310.15(B)(16) of the National Electrical Code® for insulated conductors rated up to and including 2000 volts for not more than three current carrying conductors in raceway, cable or earth (directly buried) Based on Ambient Temperature of 30°C (86°F)

All measurements are subject to nominal manufacturing tolerances.

