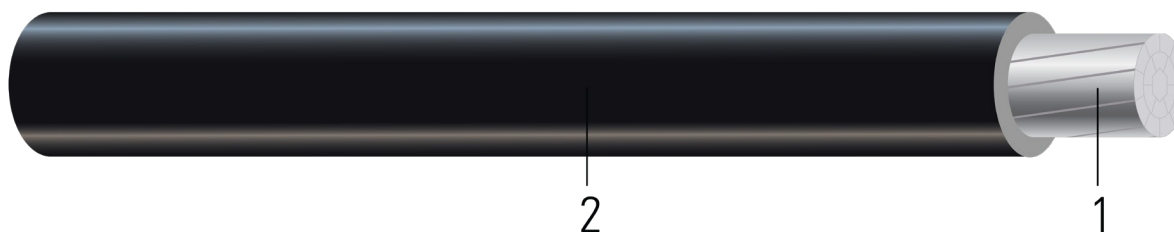


2000 Volt Aluminum Type PV

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



Images not to scale. See Table 1 for Dimensions

CONSTRUCTION:

1. **Conductor:** Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B836
2. **Insulation:** Cross Linked Polyethylene (XLPE)

APPLICATIONS AND FEATURES:

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.

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 E316464 {UL} PV WIRE XX COMPACT AL. --- AlumaFlex {TM} AA8176 2000V 90{D}C WET OR DRY (-40{D}C)
SUN RES DIRECT BURIAL OR RHH-RHW-2 2000V --- RoHS



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Table 1 – Weights & Measurements

Cond Size AWG	Stock Code and Colors							Conductor	Insul. Thickness	Nominal OD (2)	Approx. Weight lbs./MFT
	BLK	BRN	ORG	YLW	WHT	RED	GRN	Dia (1)			
								inches	inches	inches	
6	585843	TBA	TBA	TBA	TBA	TBA	TBA	0.169	85	0.339	55
4	586673	TBA	TBA	TBA	TBA	TBA	TBA	0.213	85	0.383	75
2	586672	TBA	TBA	TBA	TBA	TBA	TBA	0.268	85	0.438	104
1	619879	TBA	TBA	TBA	TBA	TBA	589051	0.299	105	0.509	138
1/0	591256	TBA	TBA	TBA	TBA	TBA	TBA	0.336	105	0.546	164
2/0	583673	TBA	TBA	TBA	TBA	TBA	TBA	0.376	105	0.586	196
3/0	577100	TBA	TBA	TBA	577843	TBA	TBA	0.423	105	0.633	235
4/0	583678 [◇]	TBA	TBA	TBA	597698	TBA	TBA	0.475	105	0.685	284
250	577101 [◇]	TBA	TBA	TBA	577844	TBA	TBA	0.520	120	0.760	342
300	584290	TBA	TBA	TBA	589170	TBA	TBA	0.570	120	0.810	398
350	582174 [◇]	TBA	TBA	TBA	597996	TBA	TBA	0.616	120	0.856	452
400	584291	TBA	TBA	TBA	TBA	TBA	TBA	0.659	120	0.899	507
500	582267 [◇]	TBA	TBA	TBA	586671	588797	TBA	0.736	120	0.976	614
600	585499 [◇]	TBA	TBA	TBA	591247	588799	TBA	0.813	135	1.083	751
750	586013	TBA	TBA	TBA	589375	592619	TBA	0.908	135	1.178	902
1000	641387	580010	580011	580012	641386	TBA	TBA	1.060	135	1.33	1166

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Standard stock item

Table 2 – Electrical and Engineering Data

Cond. Size AWG	Min. Bending Radius Inches	Max. Pull Tension lbs.	Resistance		Reactance X_L @ 60Hz Ω/MFT	Ø Short Circuit Current 6 Cycles Amps	Allowable Ampacities [†]		
			DC @ 25°C Ω/MFT	AC @ 90°C Ω/MFT			60 °C Amps	75 °C Amps	90 °C Amps
6	2.7	157	0.675	0.848	0.038	6016	41	49	55
4	3.1	250	0.424	0.533	0.035	9569	56	67	75
2	3.5	300	0.266	0.334	0.033	15213	75	90	100
1	4.07	398	0.211	0.265	0.033	19186	86	102	115
1/0	4.4	634	0.168	0.211	0.033	24209	101	120	135
2/0	4.7	799	0.133	0.167	0.032	30513	112	134	150
3/0	5.1	1007	0.105	0.132	0.031	38468	131	156	175
4/0	5.5	1270	0.084	0.105	0.030	48509	153	183	205
250	6.1	1500	0.071	0.089	0.030	57313	172	205	230
300	6.5	1800	0.058	0.075	0.030	68775	195	230	260
350	6.9	2100	0.051	0.064	0.030	80238	210	250	280
400	7.2	2400	0.043	0.056	0.029	91700	225	270	305
500	7.8	3000	0.035	0.045	0.029	114625	262	313	350
600	8.7	3600	0.030	0.038	0.029	137550	288	344	385
750	9.4	4500	0.024	0.031	0.028	171938	326	389	435
1000	10.64	6000	0.0173	0.024	0.027	229250	375	445	500



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