



ALUMINUM 2KV PHOTOVOLTAIC CABLE

APPLICATION

SINGLE CONDUCTOR, DIRECT BURIAL, SUNLIGHT- RESISTANT, PHOTOVOLTAIC WIRE RATED 1000V/2000V and 90°C WET OR DRY, PASSED -40°C COLD BEND AND IS VW -1 RATED. THE PRODUCT IS APPROVED FOR USE IN SOLAR POWER APPLICANTS PER THE NATIONAL ELECTRICAL CODE (NEC) ARTICLE 690.

CONDUCTOR

8 AWG THRU 1000 KCMIL COMPACT ALUMINUM (AA-8000 SERIES)

INSULATION

FLAME-RETARDANT CROSS-LINKED POLYETHYLENE (XLPE), BLACK

FEATURES

- RATED 90°C WET AND DRY
- RATED FOR DIRECT BURIAL
- EXCELLENT MOISTURE RESISTANCE EXCEEDS UL 44
- STABLE ELECTRICAL PROPERTIES OVER A BROAD TEMPERATURE RANGE
- COMPACT STRANDING
- UV/SUNLIGHT-RESISTANT
- COLD BEND / COLD IMPACT AT -40°C

INDUSTRY COMPLIANCES

- AA 8000 SERIES ALUMINUM ALLOY CONDUCTOR PER ASTM B800, B801, B901
- ASTM 836 COMPACT ROUND ALUMINUM CONDUCTORS
- UL 854 FOR USE - 2
- UL 44 FOR TYPE RHH/ RHW - 2
- UL 4703 TYPE PV
- ICEA S - 95 - 658/ NEMA WC70
- NATIONAL ELECTRICAL CODE (NEC)

PRINT

- ICC CABLE XXXKCMIL PV WIRE E530822(UL) AL AA-8000 COMPACT STRAND XLPE RHH RHW-2 2KV 90C - 40C CT SUN RES DIR BUR VW-1 202X XXXXFT
- SOLID BLACK OR RED COLOR STANDARD
- GREEN JACKET AVAILABLE UPON REQUEST



ICC CABLE CORP.





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COND. SIZE	NUMBER OF COND. STRANDING	NOMINAL CONDUCTOR O.D.	MIN. INSULATION THICKNESS	NOMINAL CABLE DIAMETER	ALUMINUM WEIGHT	APPROX. NET WEIGHT	DC RESISTANCE @20°C	MIN. BEND RADIUS	MAX. PULLING TENSION	AMPACITY AT 90°C
(AWG/KCMIL)	MM	INCHES	MILS	INCHES	LBS/1000FT	LBS/1000 FT	Ω/1000FT	INCHES	LBS	AMPS
8	7	0.132	85	0.301	15.22	53.5	1.07	2.41	99	45
6	7	0.167	85	0.337	24.18	68.7	0.674	2.70	157	55
4	7	0.213	85	0.382	38.55	90.0	0.424	3.06	250	75
3	7	0.236	85	0.406	48.55	104.1	0.336	3.25	314	85
2	7	0.268	85	0.437	61.09	122.0	0.267	3.50	396	100
1	18	0.299	105	0.508	77.09	163.5	0.211	4.06	499	115
1/0	18	0.336	105	0.545	97.27	185.2	0.168	4.36	630	135
2/0	18	0.375	105	0.585	122.55	218.4	0.133	4.68	794	150
3/0	18	0.421	105	0.631	154.55	259.6	0.106	5.05	1001	175
4/0	18	0.476	105	0.686	194.55	310.6	0.0836	5.49	1260	205
250	36	0.519	120	0.758	230.91	367.7	0.0708	6.06	1495	230
300	36	0.572	120	0.811	276.36	424.6	0.059	6.49	1790	260
350	36	0.614	120	0.854	321.82	479.0	0.0505	6.83	2084	280
400	36	0.657	120	0.897	369.09	535.6	0.0442	7.18	2390	305
450	36	0.700	120	0.939	414.55	590.2	0.0393	7.51	2685	327
500	36	0.734	120	0.974	460.0	643.0	0.0354	7.79	2979	350
600	58	0.807	135	1.077	552.73	766.8	0.0295	8.62	3580	385
700	58	0.874	135	1.144	645.45	874.8	0.0253	9.15	4180	425
750	58	0.904	135	1.174	690.91	926.9	0.0236	9.39	4475	435
800	58	0.938	135	1.208	736.36	980.3	0.0221	9.66	4769	445
900	58	1.00	135	1.27	829.09	1087.0	0.0197	10.16	5370	480
1000	58	1.055	135	1.325	921.82	1192.3	0.0177	10.60	5970	500



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