



# 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
- CT RATING AVAILABLE FOR SIZES 1/0AWG AND LARGER

## 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





# ALUMINUM 2KV PHOTOVOLTAIC CABLE

COND. SIZE	NO. OF COND. STRAND *	NOMINAL CONDUCTOR O.D.	MIN. INSULATION THICKNESS	NOMINAL CABLE DIAMETER	ALUMINUM WEIGHT	APPROX. NET WEIGHT	MIN. BEND RADIUS	MAX. PULLING TENSION	DC RESISTANCE @20°C	AMPACITY AT 90°C
(AWG/KCML)	MM	INCHES	MILS	INCHES	LBS/1000FT	LBS/1000 FT	INCHES	LBS	Ω/MFT	AMPS
8	7	0.132	85	0.301	15.22	52.0	2.4	99	1.05	45
6	7	0.169	85	0.338	24.18	65.7	2.7	157	0.674	55
4	7	0.213	85	0.382	38.55	82.8	3.1	250	0.424	75
3	7	0.236	85	0.406	48.55	96.2	3.2	315	0.33	95
2	7	0.272	85	0.441	61.09	114.0	3.5	396	0.267	100
1	19	0.299	105	0.509	77.09	151.3	4.1	500	0.211	115
1/0	19	0.335	105	0.544	97.27	174.6	4.4	631	0.168	135
2/0	19	0.374	105	0.583	122.55	206.8	4.7	795	0.133	150
3/0	19	0.421	105	0.631	154.55	247.0	5.0	1003	0.106	175
4/0	19	0.476	105	0.685	194.55	293.6	5.5	1263	0.0836	205
250	37	0.520	120	0.759	230.91	353.9	6.1	1499	0.0708	230
300	37	0.571	120	0.810	276.36	407.9	6.5	1794	0.059	260
350	37	0.614	120	0.854	321.82	459.8	6.8	2089	0.0505	280
400	37	0.657	120	0.897	369.09	514.3	7.2	2395	0.0442	305
450	37	0.701	120	0.940	414.55	567.9	7.5	2690	0.168	330
500	37	0.736	120	0.976	460.0	619.0	7.8	2985	0.0354	350
550	61	0.772	135	1.042	507.27	697.4	8.3	3292	0.0322	365
600	61	0.807	135	1.077	552.73	784.0	8.6	3587	0.0295	385
650	61	0.846	135	1.117	598.18	801.6	8.9	3882	0.0272	395
700	61	0.874	135	1.144	645.45	853.2	9.2	4189	0.0253	420
750	61	0.906	135	1.176	690.91	904.0	9.4	4484	0.0236	435
800	61	0.945	135	1.215	736.36	957.3	9.7	4779	0.0221	450
900	61	0.992	135	1.262	829.09	1059.5	10.1	5381	0.0197	480
1000	61	1.055	135	1.325	921.82	1164.9	10.6	5983	0.0177	500

\* All information is subject to change without notice