

ALUMINUM PHOTOVOLTAIC WIRE 2000V

APPLICATIONS

Single conductor, sunlight-resistant, photovoltaic wire rated 90°C wet or 105°C dry 2000V for interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) and other applicable parts of the National Electrical Code (NEC), NFPA 70. For use in free air, raceways or direct burial in accordance with NEC.

CONSTRUCTION

Conductor: 8 AWG thru 1000 kcmil compact aluminum (8000series)
 Insulation: Flame-retardant Cross-Linked Polyethylene (XLPE), black or red
 Print: HUAXING CABLE E363111 PV WIRE AL (SIZE) 1000 /2000V 90°C DRY OR WET -40°C DIR BUR SUN RES FTMONTH/YEAR OF MANUFACTURE

OPTION

- Colored phase ID stripes available on request
- Multiplexing available on request
- FT2 flame compliance available on request
- Vertical flame compliance available on request

FEATURES

- Rated 90°C wet and dry
- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Excellent resistance to crush and compression cuts
- Resistant to most oils and chemicals
- UV/sunlight-resistant
- Meets cold bend test at -40°C

SPECIFICATIONS

ASTM B800 - 05(2011), ASTM B836 -00(2011)

- UL 4703 Type PV
- National Electrical Code (NEC)
- ICEA S-95-658/NEMA WC70
- UL 44 Type RHH or RHW-2
- UL 854 Type USE-2 C(UL) RWU90 1kV

Conductor Size (AWG/kcmil)	Conductor Stranding	Nominal Conductor O.D.		Minimum Average Insulation Thickness		Nominal Cable Diameter		Copper Weight		Net Weight	
		(in)	(mm)	(in)	(mm)	(in)	(mm)	/MFT(lb)	/km(kg)	/MFT(lb)	/km(kg)
8 AWG-1000 kcmil CONDUCTORS											
8	7/0486	0.134	3.40	0.085	2.16	0.310	7.87	16	23	52	78
6	7/0612	0.169	4.29	0.085	2.16	0.345	8.76	25	37	67	100
4	7/0772	0.213	5.41	0.085	2.16	0.389	9.88	39	58	90	133
2	7/0974	0.268	6.81	0.085	2.16	0.444	11.28	63	93	122	182
1	19/0664	0.299	7.59	0.105	2.67	0.515	13.08	79	117	162	241
1/0	19/0745	0.336	8.53	0.105	2.67	0.552	14.02	99	148	191	284
2/0	19/0837	0.376	9.55	0.105	2.67	0.592	15.04	125	186	225	334
3/0	19/0940	0.423	10.74	0.105	2.67	0.639	16.23	158	235	267	398
4/0	19/1055	0.475	12.07	0.105	2.67	0.691	17.55	199	296	319	475
250	37/0822	0.520	13.21	0.120	3.05	0.766	19.46	262	390	413	615
300	37/0900	0.570	14.48	0.120	3.05	0.816	20.73	282	420	445	663
450	37/0972	0.616	15.65	0.120	3.05	0.862	21.89	329	490	503	749
400	37/1040	0.659	16.74	0.120	3.05	0.905	22.99	376	560	561	835
500	37/1159	0.736	18.69	0.120	3.05	0.982	24.94	471	701	675	1004
600	61/0992	0.813	20.65	0.135	3.43	1.089	27.66	565	841	818	1217
750	61/1109	0.908	23.06	0.135	3.43	1.184	30.07	706	1051	985	1466
1000	61/1280	1.060	26.92	0.135	3.43	1.336	33.93	914	1360	1235	1838

Dimensions and weights are nominal; subject to industry tolerances.
 *Non-stock item; minimum runs apply. Please contact Customer Service for price and delivery.

