VOLTAGE®

Proudly Powering Today and Tomorrow

PV CABLE

2kV PV **Aluminum** DC Feeder
2kV PV **Aluminum** DC Feeder Anti-Termite



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2kV PV Aluminum DC Feeder

Construction

- Conductor: 6AWG - 1500kcmil Class B compact stranded aluminum conductor (8000 series)
- Insulation: Flame-retardant cross-linked polyethylene

Standards

- UL 4703 Photovoltaic Wire
- UL 44 Thermoset-insulated Cables
- UL 854 Service-entrance Cables
- UL 1581 Safety Reference Standard for Electrical Wires, Cables and Flexible Cords
- Vertical flame/FV-1 rated



Applications

- 2000V for interconnection wiring
- For use in photovoltaic power systems
- UV/sunlight-resistant
- Operation Temperature: Rated 90°C for exposed or concealed wiring in wet or dry locations
- Rated for direct burial

Options

- VW-1 rated
- Other sizes or stranding options available
- Bare copper or tinned copper conductor
- 600V rated available
- Various colored insulation
- Various colored stripes

Sample Print

- Interval imprints with production date, time, cable type, sequential length in 2-foot increments

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2kV PV AL DC Feeder

Weights & Measurements

Cond. Size	Strands	Dia.	Thickness	O. D.	Weight		Min. Bend Radius	Max. Pull Tension	Resistance		Allowable Ampacities		
		Conductor	Insulation	Jacket	Al	Net			DC@ 20°C	DC@ 90°C	Direct Burial	Free Air	Messenger Wire
AWG kcmil		In.	Mils	In.	lbs./Kft		In.	lbs.	Ω/Kft		Amps		
6	7	0.169	85	0.339	24	56	2.7	116.7	0.674	0.863	55	85	69
4	7	0.213	85	0.383	38	76	3.1	185.5	0.424	0.543	75	115	91
3	7	0.236	85	0.406	48	89	3.2	233.8	0.336	0.430	85	130	107
2	7	0.268	85	0.438	60	105	3.5	294.7	0.267	0.342	100	150	123
1	18	0.299	105	0.509	76	139	4.1	371.8	0.211	0.271	115	175	144
1/0	18	0.335	105	0.545	95	164	4.4	469.2	0.168	0.215	135	205	167
2/0	18	0.378	105	0.588	120	195	4.7	591.0	0.133	0.170	150	235	193
3/0	19	0.421	105	0.631	152	234	5.0	745.2	0.106	0.135	175	270	224
4/0	19	0.476	105	0.686	192	280	5.5	939.9	0.0836	0.107	205	315	262
250	36	0.520	120	0.760	227	339	6.1	1,113.5	0.0708	0.091	230	355	292
300	36	0.571	120	0.811	271	392	6.5	1,332.7	0.059	0.076	260	395	328
350	36	0.618	120	0.858	317	443	6.9	1,551.9	0.0505	0.065	280	445	364
400	36	0.657	120	0.897	363	497	7.2	1,779.8	0.0442	0.057	305	480	395
450	36	0.701	120	0.941	407	548	7.5	1,999.0	0.0393	0.050	325	510	423
500	36	0.736	120	0.976	452	601	7.8	2,218.2	0.0354	0.045	350	545	458
550	60	0.768	135	1.038	499	676	8.3	2,446.2	0.0322	0.041	365	580	486
600	60	0.803	135	1.073	545	728	8.6	2,665.3	0.0295	0.038	385	615	514
650	60	0.835	135	1.105	588	778	8.8	2,884.5	0.0272	0.035	405	640	542
700	60	0.866	135	1.136	634	831	9.1	3,112.5	0.0253	0.032	425	670	570
750	60	0.902	135	1.172	697	882	9.4	3,331.7	0.0236	0.030	435	700	598
800	58	0.925	135	1.195	724	933	9.6	3,550.9	0.0221	0.028	445	725	622
900	58	0.984	135	1.254	815	1,033	10.0	3,998.0	0.0197	0.025	480	790	669
1000	58	1.043	135	1.313	906	1,134	10.5	4,445.2	0.0177	0.023	500	845	716
1250	91	1.227	155	1.537	1,133	1,450	12.3	5,581.6	0.0142	0.018	545	965	833
1500	91	1.343	155	1.653	1,366	1,703	13.2	6,698.0	0.0118	0.015	585	1,070	974

1. The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances.
2. Free Air: 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). Direct Burial: 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). Messenger Wire: Ampacities based on Table 310.15(B) (20) of the National Electrical Code® for single insulated conductors rated up to and including 2000 volts in free air.
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- Insulation: Flame-retardant cross-linked polyethylene
- Anti-Termite: Nylon layer
- Sheath: Flame-retardant cross-linked polyethylene

Standards

- UL 4703 Photovoltaic Wire
- UL 44 Thermoset-insulated cables
- UL 854 Service-entrance cables
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Applications

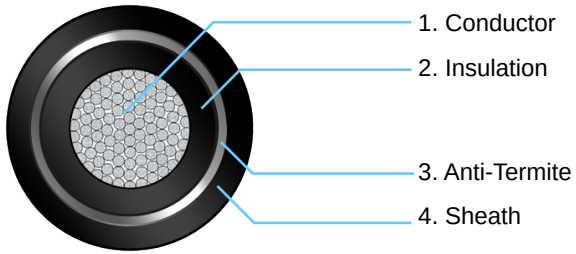
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- Operation Temperature: Rated 90°C for exposed or concealed wiring in wet or dry locations
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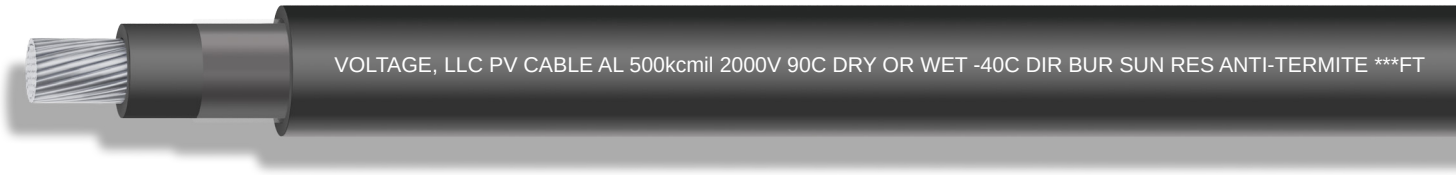
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4	7	0.213	70	8	30	0.445	38	97	3.4	185.5	0.424	0.543	75	115	91
3	7	0.236	70	8	30	0.469	48	111	3.6	233.8	0.336	0.430	85	130	107
2	7	0.268	70	8	45	0.528	60	140	4.1	294.7	0.267	0.342	100	150	123
1	18	0.299	90	8	45	0.602	76	181	4.7	371.8	0.211	0.271	115	175	144
1/0	18	0.335	90	8	45	0.638	95	209	5.0	469.2	0.168	0.215	135	205	167
2/0	18	0.378	90	8	45	0.681	120	244	5.3	591.0	0.133	0.170	150	235	193
3/0	19	0.421	90	8	45	0.724	152	286	5.7	745.2	0.106	0.135	175	270	224
4/0	19	0.476	90	8	65	0.819	192	364	6.4	939.9	0.0836	0.107	205	315	262
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Website

LinkedIn

TEL:
(919) 391-9405

Website:
voltageenergy.com

Email:
sales@voltageenergy.com

Address:
1450 Raleigh Road, Suite 208 Chapel Hill, NC 27517 USA

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