

# PV CABLE

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



# 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



# 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
		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

- The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances.
- 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.
- The above parameters are for reference only, based on the technical requirements.

# 2kV PV Aluminum DC Feeder Anti-Termite

## ✂ Construction

- Conductor: 6AWG - 1500kcmil Class B compact stranded aluminum conductor (8000 series)
- 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
- UL 1581 Safety Reference Standard for Electrical Wires, Cables and Flexible Cords
- Vertical flame/FV-1 rated



## ⚙ Applications

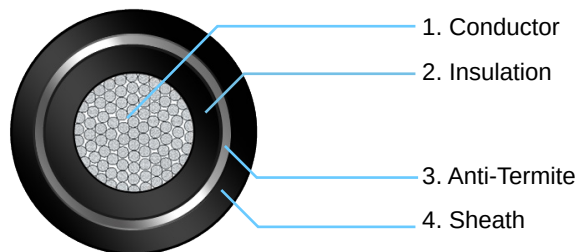
- 2000V for interconnection wiring
- For use in photovoltaic power systems
- UV/sunlight-resistant
- Operation Temperature: Rated 90°C for exposed or concealed wiring in wet or dry locations
- Rated for direct burial

## ☰ Options

- VW-1 rated
- Other sizes or stranding options available
- 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



# 2kV PV AL DC Feeder Anti-Termite

## Weights & Measurements

Cond. Size	Strands	Dia.	Thickness			O. D.	Weight		Min. Bend Radius	Max. Pull Tension	Resistance		Allowable Ampacities		
		Conductor	Insulation	Anti-Termite	Sheath	Jacket	Al	Net			DC@ 20°C	DC@ 90°C	Direct Burial	Free Air	Messenger Wire
		In.	Mils			In.	lbs./Kft				In.	lbs.	Ω/kft		Amps
6	7	0.169	70	8	30	0.402	24	75	3.1	116.7	0.674	0.863	55	85	69
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
250	36	0.520	105	8	65	0.890	227	429	7.0	1,113.5	0.0708	0.091	230	355	292
300	36	0.571	105	8	65	0.941	271	490	7.4	1,332.7	0.059	0.076	260	395	328
350	36	0.618	105	8	65	0.988	317	550	7.8	1,551.9	0.0505	0.065	280	445	364
400	36	0.657	105	8	65	1.028	363	607	8.1	1,779.8	0.0442	0.057	305	480	395
450	36	0.701	105	8	65	1.071	407	665	8.4	1,999.0	0.0393	0.050	325	510	423
500	36	0.736	105	8	65	1.106	452	721	8.7	2,218.2	0.0354	0.045	350	545	458
550	60	0.768	120	8	65	1.169	499	802	9.2	2,446.2	0.0322	0.041	365	580	486
600	60	0.803	120	8	65	1.205	545	859	9.5	2,665.3	0.0295	0.038	385	615	514
650	60	0.835	120	8	65	1.236	588	915	9.8	2,884.5	0.0272	0.035	405	640	542
700	60	0.866	120	8	65	1.268	634	970	10.0	3,112.5	0.0253	0.032	425	670	570
750	60	0.902	120	8	65	1.303	697	1,027	10.3	3,331.7	0.0236	0.030	435	700	598
800	58	0.925	120	8	65	1.327	724	1,080	10.5	3,550.9	0.0221	0.028	445	725	622
900	58	0.984	120	8	65	1.386	815	1,190	11.0	3,998.0	0.0197	0.025	480	790	669
1000	58	1.043	120	8	65	1.445	906	1,300	11.4	4,445.2	0.0177	0.023	500	845	716
1250	91	1.227	140	8	95	1.720	1,133	1,702	13.7	5,581.6	0.0142	0.018	545	965	833
1500	91	1.343	140	8	95	1.835	1,366	1,975	14.6	6,698.0	0.0118	0.015	585	1,070	974

- The dimensions and weights shown are nominal and subject to industry standards and manufacturing tolerances.
- 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.
- The above parameters are for reference only, based on the technical requirements.



Website



LinkedIn



**TEL:**  
(919) 391-9405



**Website:**  
[voltageenergy.com](http://voltageenergy.com)



**Email:**  
[sales@voltageenergy.com](mailto:sales@voltageenergy.com)



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

The Voltage name and associated logos, in addition to other trademarks used herein, are owned exclusively by Voltage, LLC, and are registered with the U.S. Patent and Trademark Office. All rights reserved.