



Specification Sheet

BWC Part Number #: BWC-3/0-01ALPV-2KVXLP

Aluminum 2KV Photovoltaic Cable

Application

This Aluminum 2KV Photovoltaic Cable is primarily used for the interconnection wiring of both grounded and ungrounded photovoltaic power systems. The cable is suitable for applications up to 2000 volts and can operate in temperatures ranging from -40°C to +90°C in wet or dry conditions. When installed according to NEC article 690.31 (C) (2), these single-conductor cables can be placed in outdoor cable trays for PV source and output circuits.

Construction

- **Conductor:** Compact stranded 8000 Series Aluminum conductor, compliant with ASTM B800, B801, B836, and B901.
- **Insulation:** The insulation is a cross-linked polyethylene (XLPE) that is gas, oil, and sunlight resistant, and rated for direct burial. Standard colors include black and red for sizes 8AWG to 1000KCM, and green for sizes 4AWG to 1/0AWG. Other colors or striping are available upon request.

Standards

- ASTM B800, B801, B836, B901
- UL 44 RHH RHW-2, UL 854 USE-2, UL 4703 PV Wire, UL 2556
- CSA listed RPVU90 per CSA C22.2 No. 271
- ANSI/ICEA S-95-658/NEMA WC 70
- VW-1 flame test, Sunlight Resistant, Direct Burial

Options

- A 600V UL PV Wire and CSA RPV90 version is available upon request.
- Paralleled conductors on a single reel and specific circuit cuts are available by request
- NEC 300.22, 518.4, 520.5, and 645.5 for environmental air-handling spaces

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Part Number	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (inches)	Overall Diameter (inches)	Net Weight (lbs/kft)	DC Resistance at 120°C (Omega/kft)	Ampacity at 90°C (amps)
6-01ALPV-2KVXLP	6	7	0.085	0.34	56	0.661	55
4-01ALPV-2KVXLP	4	7	0.085	0.38	76	0.416	75
2-01ALPV-2KVXLP	2	7	0.085	0.44	107	0.262	100
1-01ALPV-2KVXLP	1	18	0.105	0.51	143	0.206	115
1/0-01ALPV-2KVXLP	1/0	18	0.105	0.55	171	0.165	135
2/0-01ALPV-2KVXLP	2/0	18	0.105	0.59	203	0.131	150
3/0-01ALPV-2KVXLP	3/0	18	0.105	0.63	245	0.103	175
4/0-01ALPV-2KVXLP	4/0	18	0.105	0.69	295	0.0821	205
250-01ALPV-2KVXLP	250	35	0.12	0.76	353	0.0695	230
300-01ALPV-2KVXLP	300	35	0.12	0.81	411	0.0579	260
350-01ALPV-2KVXLP	350	35	0.12	0.86	467	0.0496	280
400-01ALPV-2KVXLP	400	35	0.12	0.9	525	0.0434	305
500-01ALPV-2KVXLP	500	35	0.12	0.98	622	0.0348	350
600-01ALPV-2KVXLP	600	58	0.135	1.08	756	0.029	385

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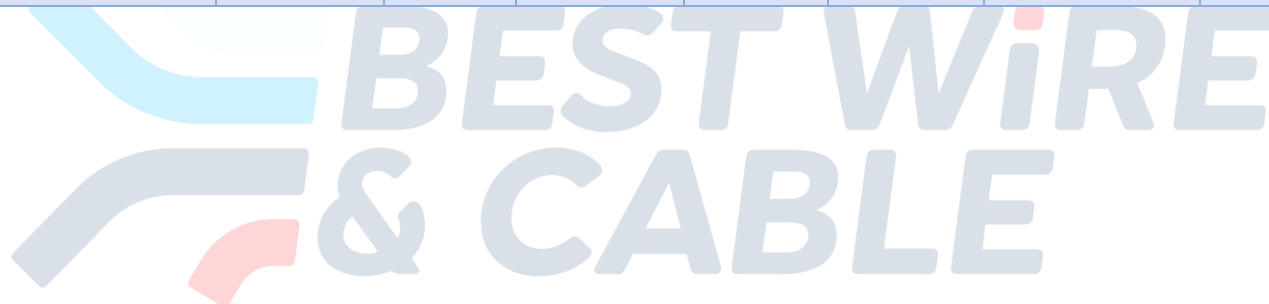
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700-01ALPV-2KVXLP	700	58	0.135	1.15	836	0.0248	425
750-01ALPV-2KVXLP	750	58	0.135	1.18	913	0.0232	435
900-01ALPV-2KVXLP	900	58	0.135	1.27	1062	0.0193	480
1000-01ALPV-2KVXLP	1000	58	0.135	1.33	1180	0.0174	500
1250-01ALPV-2KVXLP	1250	58	0.155	1.51	1458	0.0142	545



ALL SPECIFIED PARAMETERS WITHOUT A TOLERANCE ARE NOMINAL AND SUBJECT TO VERIFICATION. BEST WIRE IS NOT RESPONSIBLE FOR UNKNOWN PERFORMANCE ATTRIBUTES THAT WERE NOT MADE KNOWN TO BEST WIRE AT THE TIME OF DESIGN.

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