



PRODUCT DATA SHEET

2000 V rated PV Wire, Aluminum

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Scope: The specification covers single conductor, UL listed, 2000 volt rated PV (photovoltaic) wire used in Solar panel applications. It consists of Compact stranded Aluminum conductor 8000 series alloy conductor that is insulated with cross-linked polyethylene (XLPE). The cable is built per UL 4703 and passes the VW-1 Flame test per UL 1581. These cables are rated for 2000 V, 90°C wet or dry, and -40°C cold temperature applications. The cables are sunlight resistant, and suitable for direct burial. The cables meet the requirements for USE-2 rating per UL 854; however, are not printed as such.

Industry Specifications:

- UL 44
- UL 4703
- UL 854

1) Conductor

- 1.1 Size: 6 awg to 1000 MCM.
- 1.2 Stranding: Compact stranding per table below.
- 1.3 Material: Stranded, Aluminum
- 1.4 Number of conductors: 1.

2) Insulation

- 2.1 Material: Cross linked Polyethylene (XLPE).
- 2.2 Wall thickness: 0.085 to 0.135" per table. The minimum average thickness shall not be less than 90% of the specified thickness.
- 2.3 Cable O.D: Per table below.
- 2.4 Cable weight: Per table below.
- 2.5 Color: Black

3) Surface markings

- 3.1 Type: Cables shall be identified by means of surface print of white color. Below is an example of a typical print legend.

**WTEC E# _____ AWG (_____ MM²) COMPACT Al Alloy 8000 (UL) PV WIRE 2000V 90°C
DRY OR WET (-40°C) XLPE SUN RES DIRECT BURIAL VW1 or RHW-2 2000V RoHS**

- 3.2 Sequential footage markers: Optional.

Revision	Description	Date	Submitted By
1	Initial release	10/26/2011	SS
2	Added more AWG sizes	10/28/2011	SS



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4) Dimensions and Weights

AWG Size	No of Strands, Common	Alternate Strand Construction	Insulation thickness, mils	Final Diameter Inches	Weight, Lbs/1000 ft
6	7		85	0.339	55
4	7		85	0.383	75
2	6-7		85	0.438	104
1	8	18-19	105	0.509	150
1/0	10	18-19	105	0.546	164
2/0	12	18-19	105	0.586	196
3/0	16	18-19	105	0.633	235
4/0	18-19		105	0.685	284
250 MCM	22-23	35-37	120	0.760	342
300 MCM	22	35-37	120	0.810	430
350 MCM	26	35-37	120	0.856	452
400 MCM	35-37		120	0.899	530
500 MCM	35-37		120	0.976	614
600 MCM	58-61		135	1.083	775
700 MCM	58-61		135	1.147	880
750 MCM	58-61		135	1.178	902
900 MCM	58-61		135	1.269	1100
1000 MCM	58		135	1.330	1166

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