



PRODUCT DATA SHEET

2000 V rated PV Wire, Copper

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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 Class-B or Class- C stranded, bare copper 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: 14 AWG to 4/0 AWG.
- 1.2 Stranding: 19 strands, Class B or C dependent upon AWG size.
- 1.3 Material: Stranded, bare copper.
- 1.4 Number of conductors: 1.

2) Insulation

- 2.1 Material: Cross linked Polyethylene (XLPE).
- 2.2 Wall thickness: 0.075 to 0.105" 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) CU (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
2	Added large AWG sizes	10/26/2011	SS
3	Added 3 awg size	11/01/2011	SS



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4) Dimensions and Weights

AWG Size	Class	No of Strands	Insulation thickness, mils	Final Diameter Inches	Weight, Lbs/1000 ft
14	C	19	75	0.220	32
12	C	19	75	0.237	41
10	C	19	75	0.261	57
8	C	19	85	0.312	86
6	C	19	85	0.349	121
4	C	19	85	0.396	176
3	C	19	85	0.430	214
2	C	19	85	0.456	261
1	B	19	105	0.531	338
1/0	B	19	105	0.570	413
2/0	B	19	105	0.614	506
3/0	B	19	105	0.664	623
4/0	B	19	105	0.720	769

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