

PRODUCT DATA SHEET

600V rated PV Wire

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Scope: The specification covers single conductor, UL listed, 600 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 600V, 90°C wet or dry, and -40°C cold temperature applications. The cables are sunlight resistant, suitable for direct burial, and carry USE-2 rating per UL 854.

Industry Specifications:

- UL 44
- UL 4703
- UL 854

1) Conductor

- 1.1 Size: 14 AWG to 8 AWG.
- 1.2 Stranding: Class B (7 strands) or Class C (19 strands).
- 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: 0.060 to 0.075" 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. A typical print legend will read as below.

**WTEC E# _____ AWG (____MM²) (UL) PV WIRE 600V 90°C DRY OR WET (-40°C) XLPE
SUN RES DIRECT BURIAL VW1 OR USE-2 600V or RHW-2 600V RoHS**

3.2 Sequential footage markers: Optional.

4) Dimensions and Weights

AWG Size	Class	No of Strands	Insulation thickness, mils	Final Diameter Inches	Weight, Lbs/1000 ft
14	B	7	60	0.190	26.8
14	C	19	60	0.190	26.8
12	B	7	60	0.207	36.1
12	C	19	60	0.207	36.1
10	B	7	60	0.231	50.6
10	C	19	60	0.231	50.6
8	B	7	75	0.292	80.3
8	C	19	75	0.292	80.3

Revision	Description	Date	Submitted By
	Version 1	08/03/2010	SS
2	Minor editorial changes	10/28/11	SS



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