

# PHOTOVOLTAIC WIRE

UL File No. . . . . . E331974

Standard . . . . . UL subject 4703

Use . . . . . Interconnection wiring of grounded and ungrounded photovoltaic power systems as described in wiring systems, Article 690, and other applicable parts of the National Electrical Code (NEC), NFPA 70.

Rating . . . . . Temperature 90°C Dry / 90°C Wet, Voltage 600 V / 1000 V / 2000V.

Construction . . . . . Single-conductor, single layer or double layers, Flexible, XLPE extrusion grade.

(UL) PV Wire 105°C Dry / 90°C Wet VW-1 600V 14AWG Sun. Res. /-40°C TA YA E331974

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Conductor			XLPE Insulation / Jacket		Rating Voltage ( V )
Wire Size AWG / ( mm <sup>2</sup> )	Stranding ( No. / mm )	Diameter ( mm )	Min. Avg. Thickness ( mm )	Diameter Approx. ( mm )	
18 / (0.85)	34 / 0.18	1.20	1.52	4.40	600
18 / (0.85)	34 / 0.18	1.20	1.14	5.20	
			0.76		
16 / (1.5)	52 / 0.18	1.50	1.52	4.70	
16 / (1.5)	52 / 0.18	1.50	1.14	5.50	
			0.76		
14 / (2.5)	50 / 0.25	2.00	1.52	5.20	
14 / (2.5)	50 / 0.25	2.00	1.14	6.00	
			0.76		
12 / (4)	56 / 0.30	2.60	1.52	5.80	
12 / (4)	56 / 0.30	2.60	1.14	6.60	
			0.76		
10 / (6)	84 / 0.30	3.20	1.52	6.40	
10 / (6)	84 / 0.30	3.20	1.14	7.20	
			0.76		
8 / (10)	80 / 0.40	4.10	1.90	8.20	
8 / (10)	80 / 0.40	4.10	1.52	9.00	
			0.76		
4 / (22)	7 / 25 / 0.40	6.50	1.90	11.00	
4 / (22)	7 / 25 / 0.40	6.50	1.52	11.50	
			0.76		
14 / (2.5)	50 / 0.25	2.00	1.90	6.00	1000 (Single/Double layer) / 2000 (Single)
14 / (2.5)	50 / 0.25	2.00	1.52	6.80	
			0.76		
12 / (4)	56 / 0.30	2.60	1.90	6.60	
12 / (4)	56 / 0.30	2.60	1.52	7.40	
			0.76		
10 / (6)	84 / 0.30	3.20	1.90	7.20	
10 / (6)	84 / 0.30	3.20	1.52	8.00	
			0.76		
8 / (10)	80 / 0.40	4.10	2.16	8.80	
8 / (10)	80 / 0.40	4.10	1.78	9.60	
			0.76		
4 / (22)	7 / 25 / 0.40	6.50	2.16	11.50	
4 / (22)	7 / 25 / 0.40	6.50	1.78	12.00	
			0.76		

**Note: 1. Wire size Nos. ( 18 ~ 4/0 AWG ) or ( 0.823 ~ 107.2 mm<sup>2</sup> ) are available in UL standard.**

**2. Metric conductors in accordance with conductors of insulated cables, IEC 60228, Class 5.**

