

# 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 ~ 105°C Dry / 90°C Wet, Voltage 600 V or 1000 V.
- Construction . . . . . Single-conductor, single layer or double layers, Flexible, XLPE extrusion grade.



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 0.76	5.20	
16 / ( 1.5 )	52 / 0.18	1.50	1.52	4.70	
16 / ( 1.5 )	52 / 0.18	1.50	1.14 0.76	5.50	
14 / ( 2.5 )	50 / 0.25	2.00	1.52	5.20	
14 / ( 2.5 )	50 / 0.25	2.00	1.14 0.76	6.00	
12 / ( 4 )	56 / 0.30	2.60	1.52	5.80	
12 / ( 4 )	56 / 0.30	2.60	1.14 0.76	6.60	
10 / ( 6 )	84 / 0.30	3.20	1.52	6.40	
10 / ( 6 )	84 / 0.30	3.20	1.14 0.76	7.20	
14 / ( 2.5 )	50 / 0.25	2.00	1.90	6.00	1000
14 / ( 2.5 )	50 / 0.25	2.00	1.52 0.76	6.80	
12 / ( 4 )	56 / 0.30	2.60	1.90	6.60	
12 / ( 4 )	56 / 0.30	2.60	1.52 0.76	7.40	
10 / ( 6 )	84 / 0.30	3.20	1.90	7.20	
10 / ( 6 )	84 / 0.30	3.20	1.52 0.76	8.00	

**Note: 1. Wire size Nos. ( 18 ~ 4/0 AWG ) or ( 0.825 ~ 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.**

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