

PHOTOVOLTAIC WIRE



- TÜV File No. R50229801
 Standard 2 Pfg 1169
 Use DC-side of photovoltaic power systems with a maximum permissible voltage of DC 1.8KV (conductor/conductor, non-earthed system).
 The cables are suitable for use in safety class II.
 It is permitted to connect these cables as multiple construction.
 Rating Temperature -40~90°C (120°C Max.), AC U₀/U 600V /1kV.
 Construction Single-conductor double layers, Flexible, HFXLPO extrusion grade.



Conductor		Diameter Approx. (mm)	Conductor Resistance (@ 20°C) (Ω/km) Max.	Current Carrying Capacity (surface 60°C) (A)	Dielectric Strength Voltage KV/5min. Min.
Wire Size mm ²	Stranding (No./mm)				
1	40 / 0.18	4.00	20.0	24	6.5
1.5	30 / 0.25	4.30	13.7	29	
2.5	50 / 0.25	4.80	8.21	39	
4	56 / 0.30	5.30	5.09	52	
6	84 / 0.30	5.80	3.39	67	

Note: 1. Metric conductors are comply with conductors of insulated cables, IEC 60228, Class 5.



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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 ²)	Stranding	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 (0.823~107.2 mm²) are available in UL standard.
 2. Metric conductors in accordance with conductors of insulated cables, IEC 60228, Class 5.