



HONG TAI ELECTRIC INDUSTRIAL CO., LTD. Since 1968

PV Solar Power Cable



Four Major International Standards



Full Beta Irradiation During Production



Excellent Weather Resistance



International Certificate



Use Electricity Safely and Stay Connected

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UL 1000V & 2000V PV Wire

- UL File Number:** E344945
- Standard(s):** UL 4703
- Application:** Suitable for power wiring of grounded or non-grounded solar power generation systems.
- Rated voltage:** 1000 V and 2000 V, 90°C humid or dry environment.
- Construction:**
 - **Conductor:** Conforms to the IEC 60228 standard for Class 5 tinned stranded soft-drawn copper wires
 - **Insulation:** White XLPE
 - **Sheathing:** Black XLPE
- Characteristics:** Advantages include UV resistance, flame retardant (VW-1), oil resistance, low temperature resistance down to -40°C.
- Specifications table:**

Conductor		Finished external diameter (approx.) mm	Maximum conductor resistance (20°C) Ω/km	Test voltage (AC) kV/1min	Minimum insulation resistance (15°C) MΩ · km
Nominal cross-sectional area mm ²	External diameter (approx.) mm				
1.5	1.60	6.50	13.7	6.0	1400
2.5	2.10	7.00	8.21	6.0	1180
4	2.60	7.50	5.09	6.0	1020
6	3.30	8.40	3.39	7.5	900
10	4.50	9.90	1.95	7.5	770
16	5.80	11.20	1.24	7.5	630
25	7.00	12.40	0.795	7.5	540
35	8.30	14.80	0.565	9.0	570
50	10.30	16.80	0.393	9.0	490
70	12.50	19.00	0.277	9.0	420
95	14.70	21.20	0.210	9.0	360



UL 1000V & 2000V PV Wire

- UL File Number:** E344945
- Standard(s):** UL 4703
- Application:** Suitable for power wiring of grounded or non-grounded solar power generation systems.
- Rated voltage:** 1000 V and 2000 V, 90°C humid or dry environment.
- Construction:**
 - **Conductor:** Conforms to the ASTM standard for Class K and I tinned stranded soft-drawn copper wires
 - **Insulation:** White XLPE
 - **Sheathing:** Black XLPE
- Characteristics:** Advantages include UV resistance, flame retardant (VW-1), oil resistance, low temperature resistance down to -40°C.
- Specifications table:**

Conductor		Finished external diameter (approx.) mm	Maximum conductor resistance (20°C) Ω/km	Test voltage (AC) kV/1min	Minimum insulation resistance (15°C) MΩ · km
Nominal cross-sectional area AWG	External diameter (approx.) mm				
18	1.18	6.08	23.4	6.0	1740
16	1.50	6.40	14.7	6.0	1510
14	1.88	6.78	9.25	6.0	1310
12	2.37	7.27	5.82	6.0	1130
10	3.38	8.28	3.66	6.0	950
9	3.81	9.21	2.96	7.5	1010
8	4.32	9.72	2.35	7.5	910
6	5.31	10.71	1.43	7.5	770
4	6.87	12.27	0.90	7.5	640
3	7.68	13.08	0.713	7.5	590
2	8.49	13.89	0.566	7.5	530
1	9.69	16.19	0.449	9.0	590
1/0	11.05	17.55	0.359	9.0	530
2/0	12.55	19.05	0.285	9.0	490
3/0	13.85	20.35	0.225	9.0	440
4/0	15.65	22.15	0.180	9.0	400



TÜV 2 PfG DC 1.8 kV PV Cable

- ❑ **TÜV certification number:**TA 50395727
- ❑ **Standard(s):**2 PfG 1169/08.07
- ❑ **Application:**Suitable for 1.8 kV (conductor-to-conductor, ungrounded, unloaded circuit) DC voltage systems. Can be used on the DC side of solar power generation systems.The cable's normal operating conductor temperature is 90°C and the maximum temperature 120°C. The allowable service life is 20,000 hours.
- ❑ **Rated voltage:**D.C. 1.8 kV (A.C.: U0/U 0.6/1.0 kV)
- ❑ **Construction:**
 - **Conductor:**Conforms to the IEC 60228 standard for Class 5 tinned stranded soft-drawn copper wires
 - **Insulation:**White XLPE
 - **Sheathing:**Black XLPE
- ❑ **Characteristics:**Advantages include UV resistance, weather resistance, acid and alkali resistance, as well as moisture and heat resistance.
- ❑ **Specifications table:**

Conductor		Finished external diameter (approx.) mm	Maximum conductor resistance (20°C) Ω/km	Test voltage (AC) kV/5min	Minimum insulation resistance	
Nominal cross-sectional area mm ²	External diameter (approx.) mm				(20°C) Ω · cm	(90°C) Ω · cm
1.5	1.50	4.90	13.7	6.5	10 ¹⁴	10 ¹¹
2.5	2.00	5.40	8.21	6.5	10 ¹⁴	10 ¹¹
4	2.50	5.90	5.09	6.5	10 ¹⁴	10 ¹¹
6	3.00	6.50	3.39	6.5	10 ¹⁴	10 ¹¹
10	4.50	8.20	1.95	6.5	10 ¹⁴	10 ¹¹
16	5.80	9.70	1.24	6.5	10 ¹⁴	10 ¹¹

EN DC 1.5 kV PV Cable



- ❑ **TÜV certification:**R 50483201
- ❑ **Standard(s):**EN 50618:2014
- ❑ **Application:**Suitable for 1.5 kV (conductor-to-conductor or conductor-to-ground) DC voltage systems. Can be used on the DC side of solar power generation systems. The cable's normal operating conductor temperature is 90°C and the maximum temperature 120°C. The allowable service life is 20,000 hours.
- ❑ **Rated voltage:**D.C. 1.5 kV
- ❑ **Construction:**
 - **Conductor:**Conforms to the IEC 60228 standard for Class 5 tinned stranded soft-drawn copper wires
 - **Insulation:**XLPO in all colors
 - **Sheathing:**XLPO in all colors
- ❑ **Characteristics:**Advantages include UV resistance, weather resistance, acid and alkali resistance, as well as moisture and heat resistance.
- ❑ **Specifications table:**

Conductor		Finished external diameter (approx.) mm	Maximum conductor resistance (20°C) Ω/km	Test voltage (AC) kV/5min	Minimum insulation resistance	
Nominal cross-sectional area mm ²	External diameter (approx.) mm				(20°C) MΩ · km	(90°C) MΩ · km
1.5	1.60	5.00	13.7	6.5	860	0.86
2.5	2.10	5.50	8.21	6.5	690	0.69
4	2.60	6.00	5.09	6.5	580	0.58
6	3.30	6.70	3.39	6.5	500	0.50
10	4.50	7.90	1.95	6.5	420	0.42
16	5.80	9.40	1.24	6.5	340	0.34
25	7.00	11.20	0.795	6.5	340	0.34
35	8.30	12.70	0.565	6.5	290	0.29
50	10.30	15.10	0.393	6.5	270	0.27
70	12.50	17.50	0.277	6.5	250	0.25
95	14.70	19.90	0.210	6.5	220	0.22
120	16.00	21.40	0.164	6.5	210	0.21
150	18.00	24.00	0.132	6.5	210	0.21
185	20.00	27.00	0.108	6.5	200	0.20
240	23.30	30.70	0.0817	6.5	200	0.20



IEC DC 1.5 kV PV Cable

- ❑ **TÜV certification:**R 50483196
- ❑ **Standard(s):**IEC 62930:2017
- ❑ **Application:**Suitable for 1.5 kV (conductor-to-conductor or conductor-to-ground) DC voltage systems. Can be used on the DC side of solar power generation systems. The cable's normal operating conductor temperature is 90°C and the maximum temperature 120°C. The allowable service life is 20,000 hours.
- ❑ **Rated voltage:**D.C. 1.5 kV
- ❑ **Construction:**
 - **Conductor:**Conforms to the IEC 60228 standard for Class 5 tinned stranded soft-drawn copper wires
 - **Insulation:**XLPO in all colors
 - **Sheathing:**XLPO in all colors
- ❑ **Characteristics:**Advantages include UV resistance, weather resistance, acid and alkali resistance, as well as moisture and heat resistance.
- ❑ **Specifications table:**

Conductor		Finished external diameter (approx.) mm	Maximum conductor resistance (20°C) Ω/km	Test voltage (AC) kV/5min	Minimum insulation resistance	
Nominal cross-sectional area mm ²	External diameter (approx.) mm				(20°C) MΩ · km	(90°C) MΩ · km
1.5	1.60	5.00	13.7	6.5	1050	1.05
2.5	2.10	5.50	8.21	6.5	862	0.862
4	2.60	6.00	5.09	6.5	709	0.709
6	3.30	6.70	3.39	6.5	610	0.610
10	4.50	7.90	1.95	6.5	489	0.489
16	5.80	9.40	1.24	6.5	393	0.393
25	7.00	11.20	0.795	6.5	395	0.395
35	8.30	12.70	0.565	6.5	335	0.335
50	10.30	15.10	0.393	6.5	314	0.314
70	12.50	17.50	0.277	6.5	291	0.291
95	14.70	19.90	0.210	6.5	258	0.258
120	16.00	21.40	0.164	6.5	249	0.249
150	18.00	24.00	0.132	6.5	260	0.260
185	20.00	27.00	0.108	6.5	268	0.268
240	23.30	30.70	0.0817	6.5	249	0.249
300	26.00	33.80	0.0654	6.5	237	0.237



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