



Photo Voltaic Connect Catalog

Vision. Innovation. Soul. **ALTAIHU.**

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“At Altai Hu, we create renewable and innovative energy connections.”

-Chief Cable Engineer

Altai Hu Group was founded in 1976 and has strengthened its market share to become one of the global manufacturers in various fields of wire and cable products.

We have reinvented the term Global Product Management (GPM) with our own manufacturing facilities combined with affiliated strategic partner's resources to form a Direct Global Supply Chain (DGSC). Through our comprehensive offerings and over 30 years of experience, we're able to optimize your industrial operation and strengthen your competitiveness.

1. The complexity of managing wire and cable solution today requires our expertise and experience in Global Product Management (GPM).
2. Our Direct Global Supply Chain (DGSC) empowers us to provide the most cost-efficiency from initial phase of product development to later phase of shipment delivery.

Unlike other vendors who offer only part of the solution, we help customers at every stage of their product management lifecycle: from development of a new part to technology that conducts testing for all related regulations, we will develop solutions for our clients every step of the way.

▪ **Our Wire and Cable**

Altai Hu Group's wire and cable roots extend to late 1960s. Thru the years, we have expand our product range from wire and cable for industrial applications to hook-up wires, lead wire, data cable, telecommunication cable and magnet wire for electronics applications.

Today, Altai Hu Group and its associated company ShenZhen Baohing Electric Wire & Cable which is a subsidiary of Jiangxi Copper Corporation and is also a joint venture established by ShenZhen JiangTong Southern Corporation, have together formed a team of talented engineers and dedicated employees that continues to provide the best quality products and service in the industry, we have been able grow and expand our manufacturing sites in China, Korea, and Malaysia. So, whether you need a cable that has a long-standing market presence, a modified cable design, or a completely new design, we will make sure that your requirements are met with our most competitive pricing terms.

▪ **PV Connect Business**

Altai Hu - Solar PV Connect Division's major product categories include various sizes of PV Cables, PV Cable assembly with both TUV and UL certificates. The vision for Altai Hu Group for 2010 and beyond is extremely positive, as it continues to grow and refine its product line, provide leadership in the Solar PV category in US, Europe and Asia Pacific, to gradually increase its market shares.

CERTIFICATES

TÜV Certificate



ISO Certificate



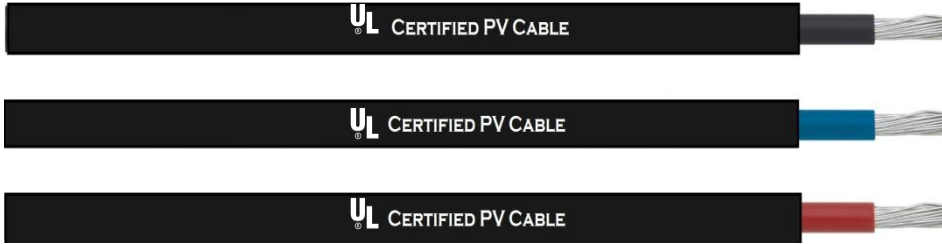
Sony Green Partner Certificate








UL Certificate



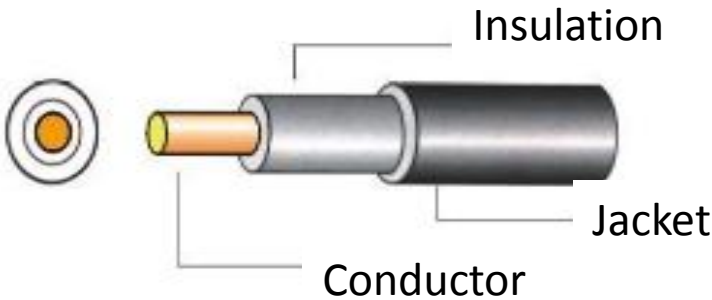
UL CERTIFIED PV CABLE



Key Features:

-  Heavy duty design. Resistance against UV, ozone, oil, salt and general weathering.
-  Flame retardant
-  Extra low smoke emissions
-  RoHS Compliant
-  UL Certified

The cable for PV equipment is specially designed for solar energy application and is approved by UL. These cables are tailored specifically for Photovoltaic Modules to meet the rapidly growing demand for renewable energy generation and conservation. PV cable designed for high mechanical requirements, extreme weather conditions and permanent installations.



Material and Finish

Conductor:

Stranded tinned copper

Insulation:

Electron beam cross-linked Polyolefin

Sheath:

Electron beam cross-linked halogen free Polyolefin

Color:

Black, blue, red

Reference Standard:

- UL certified acc. to UL4703
- RoHS Compliant

Mechanical Features:

Max. Conductor Temperature

- Continuous: +120 °C
- At Short Circuit: +200 °C

Min. Operating Temperature

- Free Installation: -25 °C
- Fixed Installation: -40 °C

Min. Bending Radius:

5 x cable wire diameter, fixed installation

Electrical Features

Voltage Rating:

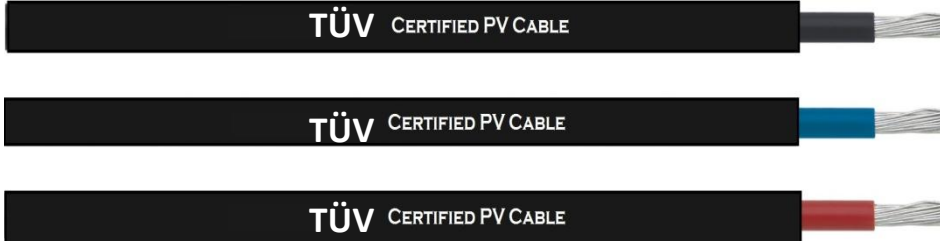
600/1000 V AC / 1000/1800 V DC

Test Voltage for 1 Minutes:

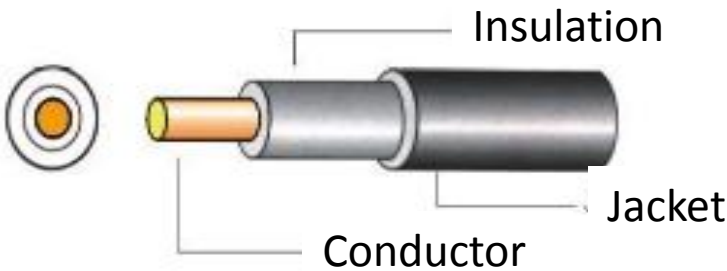
3000 V



TÜV CERTIFIED PV 1-F CABLE



The flexible, dual wall, halogen free and cross linked solar wire offers long term stability and TÜV approval. Its outstanding features include: high resistance against environmental conditions like humidity, UV-radiation and ozone. In addition, it has excellent resistance to abrasion and temperature extremes. The wire has a high dielectric withstand voltage and with its fine-stranded, tin plated copper conductor, it is easy to handle and to strip.



Reference Standard:

- TÜV certified acc. to 2Pfg 1169/08.2007
- RoHS Compliant



Mechanical Features:

- Max. Conductor Temperature**
 - Continuous: +120 °C
 - At Short Circuit: +200 °C
- Min. Operating Temperature**
 - Free Installation: -25 °C
 - Fixed Installation: -40 °C
- Min. Bending Radius:** 5 x cable wire diameter, fixed installation

Key Features:

- Heavy duty design. Resistance against UV, ozone, oil, salt and general weathering.
- Flame retardant
- Extra low smoke emissions
- RoHS Compliant
- TÜV Certified

Material and Finish

Conductor:

Stranded tinned copper

Insulation:

Electron beam cross-linked Polyolefin

Sheath:

Electron beam cross-linked halogen free Polyolefin

Color:

Black

Electrical Features

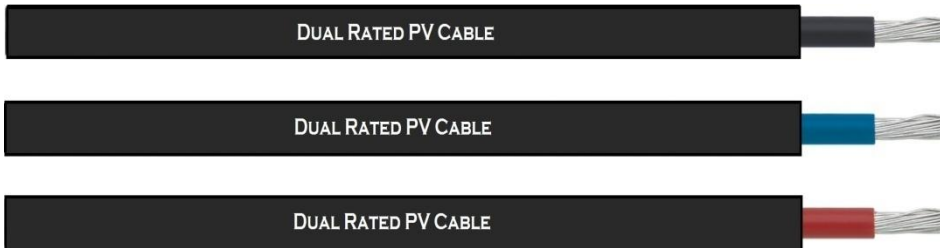
Voltage Rating UO/U:

600/1000 V AC / 1000/1800 V DC

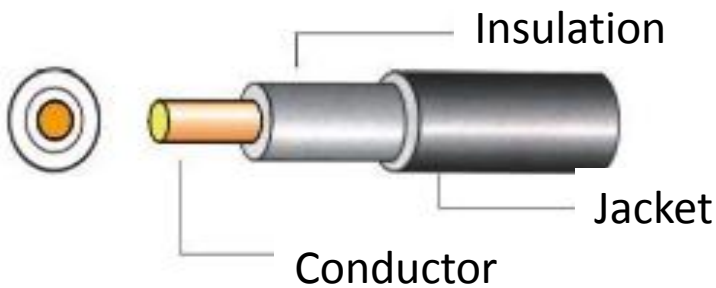
Test Voltage for 5 Minutes:

6500 V

DUAL RATED PV CABLE



Altai Hu's Dual Rated PV cable has passed both TÜV and UL's rigorous certification tests. The Dual Rated cable also offers all of the same outstanding features as from our TÜV and UL approved PV products.



Reference Standard:

- TÜV certified 2Pfg 1169/08.2007
- UL certified UL4703
- RoHS Compliant



Mechanical Features:

Max. Conductor Temperature

- Continuous: +120 °C
- At Short Circuit: +200 °C

Min. Operating Temperature

- Free Installation: -25 °C
- Fixed Installation: -40 °C

Min. Bending Radius:

5 x cable wire diameter, fixed installation

Key Features:



Heavy duty design. Resistance against UV, ozone, oil, salt and general weathering.



Flame retardant



Extra low smoke emissions



RoHS Compliant



TÜV Certified



UL Certified

Material and Finish

Conductor:

Stranded tinned copper

Insulation:

Electron beam cross-linked Polyolefin

Sheath:

Electron beam cross-linked halogen free Polyolefin

Color:

Black

Electrical Features

Voltage Rating UO/U:

600/1000 V AC / 1000/1800 V DC

Test Voltage for 5 Minutes:

6500 V

PRODUCT SPECIFICATION TABLES:

TÜV PV Cable Specifications:

Type	Conductor				Diameter	Max Resistance of conductor at 20°C (Ω/Km)
	Cross Area	No.	Construction	Diameter		
PV1-F	1.5mm ²	1	30/0.25	1.57	5.2~5.6	13.7
	2.5mm ²	1	49/0.25	2.02	5.1~5.9	8.21
	4.0mm ²	1	56/0.30	2.59	5.7~6.5	5.09
	6.0mm ²	1	84/0.30	3.17	6.5~7.5	3.39

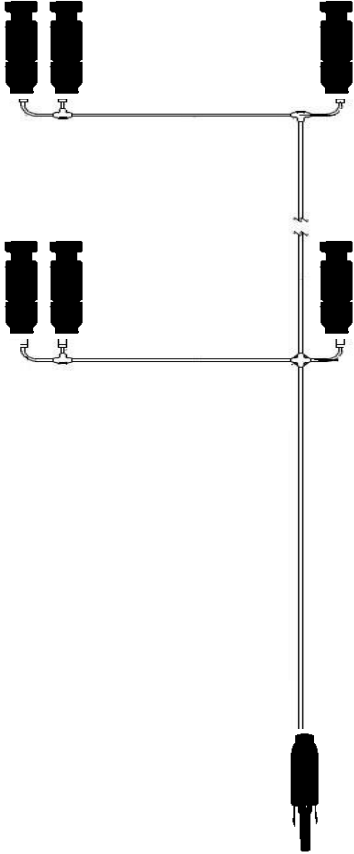
UL PV Cable Specifications:

Type	Conductor				Diameter	Max Resistance of conductor at 20°C (Ω/Km)
	Cross Area	No.	Construction	Diameter		
PV Wire	16AWG	1	26/0.254	1.49	5.4~6.1	14.6
	14AWG	1	41/0.254	1.88	5.8~6.4	8.96
	12AWG	1	65/0.254	2.37	6.3~7.0	5.64
	10AWG	1	105/0.254	3.01	7.0~7.7	3.546


Dual Rated (TÜV & UL) PV Cable Specifications:


Type	Conductor				Diameter	Max Resistance of conductor at 20°C (Ω/Km)
	Cross Area	No.	Construction	Diameter		
PV Wire & PV1-F	1.5mm ² (16AWG)	1	30/0.25	1.57	5.6~6.4	13.7
	2.5mm ² (14AWG)	1	49/0.25	2.02	6.1~6.8	8.21
	4.0mm ² (12AWG)	1	56/0.30	2.59	6.8~7.4	5.09
	6.0mm ² (10AWG)	1	84/0.30	3.17	7.6~8.1	3.39


PV CABLE HARNESS





Key Features:

- 

Weather-Proofing
- 

Optimal design
- 

Maximum power transmission
- 

RoHS Compliant
- 

TÜV Certified

Rated Voltage	1000V
Rated Current	20A (4mm ²)
Contact Resistance	< 2 m Ω
Temperature Range	- 40°C to + 90°C
Wire Size Range	2.5,4.0, 6.0 mm ² [14,12,10AWG]
Protection Degree	IP65, Closed
Fire Resistance	UL 94 - 5VA

Our Male and Female connectors are very rugged and can withstand harsh weather as well as tough utilization. They have a robust snap in and lock function that prevent them from disconnecting under load, all in compliance with current safety guide lines. These connectors can easily be mounted on our cable or on our junction boxes by using a multifunctional tool specifically developed for these connectors in usage with our junction boxes and cables.

REQUEST FOR INFORMATION:

Yes, I would like to receive more information.

- please arrange a personal meeting with me.
- please call me.

Name _____

Company _____

Street No. _____

Postcode, City _____

Phone _____

Fax _____

Email or
Company Stamp _____