



UTX™ PV Cable Connector

The UTX™ from Amphenol Industrial Solar Technologies (AIST) is a robust, triple-certified DC connector with UL 6703 1500V, IEC 62852 1500V (Class A), and JET IEC 61730 1500V specifications, making it the first connector available for usage in all major global PV markets. The UTX™ is an evolution of AIST's well-known H4 connector, with the same solar industry-standard mating configuration, Amphenol's low resistance RADSOK® contact technology, ability to accept wire gauges from 14AWG/2.5mm² to 8AWG/10mm², and an IP68 rating. Enhancements over the H4 include the UTX™'s ratcheting gland back nut, which prevents backspin once the nut is tightened. The total volume and characteristics of the materials used to make the UTX™ have been optimized to result in a more efficient and robust design. By using gland nuts, environmental gaskets, wire-retention collets, and contacts that accept multiple wire gauges, part count and total SKUs go down, while cost-savings go up. AIST's UTX™ connector is the ideal choice for all PV modules and installations, regardless of end-market, around the world.

Features:

- Triple-Certified to by UL, TÜV, and JET to 1500V
- Guaranteed to reliably mate with AIST's entire PV product line
- NEC Code Compliant (no locking sleeve required)
- 0.25 mΩ low resistance RADSOK® contact
- Accepts wire gauges from 14AWG/2.5mm² to 8AWG/10mm²
- UTX cable OD range from Ø4.5mm to Ø7.4mm
- UTX-XL cable OD range from Ø7.6mm to Ø9.3mm
- IP68 Rating (mated)
- UL94 V-0 (self extinguishing)
- RoHS, REACH, PAHS, and Halogen-free compliant
- Wide operating temperature range of -40°C to 90°C



UTX™ PV Connector



E 469330



R 50340393



1650-C4302-170



Technical Data

| | | | | |
|----------------------------|--|---|--|--|
| Rated Voltages & Currents | UL | 1500V per UL 6703 | 15A (2.5mm ² /14AWG), 20A (4.0mm ² /12AWG), 30A (6.0mm ² /10AWG), 50A (10.0mm ² /8AWG) | |
| | TÜV | 1500V per IEC 62852, Class A Unrestricted Use | 31A @85°C; 29A @90°C (2.5mm ² /14AWG), 42A @85°C; 39A @90°C (4.0mm ² /12AWG), 53A @85°C; 49A @90°C (6.0mm ² /10AWG), 75A @85°C; 69A @90°C (10.0mm ² /8AWG) | |
| | JET | 1500V per IEC 61730 | 30A (2.5mm ² /14AWG), 40A (4.0mm ² /12AWG), 50A (6.0mm ² /10AWG) | |
| Typical contact resistance | 0.25mΩ using Amphenol's low resistance RADSOK® contact technology | | | |
| Contact material | Tin-plated Copper Alloy, for excellent corrosion resistance and conductivity | | | |
| Contact system options | Machined/Cold-formed (CF) or Stamped & Formed (S&F), both with Amphenol's RADSOK® Insert | | | |
| Cable OD ranges | Ø4.5 – 7.4mm for Sizes 2.5mm ² /14AWG to 6.0mm ² /10AWG (UTX) & Ø7.6 – 9.3mm for Size 10.0mm ² /8AWG (UTX-XL) | | | |
| Locking mechanism | Meets 2014 NEC NFPA 70, 690.33(C) requirement for self-locking with tool-required unlock | | | |
| Cable strain relief | Compression gland featuring a torque-limiting, ratcheting gland nut (when used with tool UTXTW0001, below) | | | |
| Ingress Protection Rating | IP68, mated (1 meter, 1 hour) & IP2X touch-proof (reverse gender design) | | | |
| Ambient temperature range | -40°C to +90°C | | | |
| Environmental Ratings | Flammability Classification: UL 94 V-0 | | UV Resistance: Outdoor suitable (f1) rated materials, per UL 746C | |
| Intermatibility | Guaranteed to mate with all of the latest Amphenol PV connectors, regardless of gage, style, or product line | | | |
| Material Safety | RoHS, REACH, PAHS, and Halogen-free compliant | | | |

How to Order a Connector (please choose one code per position)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--------------|------------------|----------------------------------|-------------------|--------------------------|--|---|
| Product Line | Product Type | Gender | Contact Type | Cable Size | Certifications | |
| UTX | C (Connector) | F Female (+) | A S&F Contact* | 0 | A Triple Certifications for UTX (UL/TÜV/JET) Dual Certifications for UTX-XL (UL/TÜV) | I 1 pc/bag C 100 pcs/bags M 500 pcs/bags |
| | | | | 2 | | |
| | | | B CF Contact | 4 | | |
| | | 6 | | 6mm ² / 10AWG | | |
| | | L CF Contact for UTX-XL, only | | 8 | | |

*When ordering a S&F contact, please use cable size order code "4" for both 4.0mm²/ 12AWG & 6.0mm²/ 10AWG

How to Order Contacts on a Reel (please choose one code per position)

| 1 | 2 | 3 | 4 | 5 |
|----------------|----------------|-----------------|---|----------------------|
| Product Family | Product Type | Gender | Cable Size | Packaging |
| UTX | F (Contact) | F Female (+) | 2 2.5mm ² / 14AWG | R (2000 pcs/reel) |
| | | M Male (-) | 4 4.0mm ² /12AWG & 6.0mm ² / 10AWG | |

Tool and Accessory Order Codes

| | |
|---------------------------------|-----------|
| UTX Sealing Cap (for female) | UTXPF |
| UTX Sealing Cap (for male) | UTXPM |
| UTX Crimp Tool for CF Contacts | UTXTC0001 |
| UTX Crimp Tool for S&F contacts | UTXTC0002 |
| UTX Wrench Tool | UTXTWA001 |
| UTX-XL Wrench Tool | UTXTWL001 |
| UTX Socket Tool | H4TTW100 |



UTX Crimp Tool



UTX Wrench Tool



UTX-XL Wrench Tool



UTX Socket Tool



UTX Male Sealing Cap



UTX Female Sealing Cap

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

For further information on your individual application requirements, contact: Amphenol Corporation

North America:
Amphenol Industrial Operations
180 N. Freepoint Drive, Plant 4
Nogales, AZ 85621
Tel: (888) 364-9011
Fax: (520) 285-5134

Email: tech@amphenol-aio.com

Europe:
Amphenol Industrial Operations Europe
Via Barbaiana 5
1-20020 Lainate (MI) Italy
Tel: +39 02 93254.204
Fax: +39 02 93254.444

Email: info@amphenol-aio.com

Middle East:
Amphenol Middle East Enterprises FZE
Office C-37 PO Box 21107
Ajman Free Zone, UAE
Tel: +9 716-7422494
Fax: +9 716-7422941

Email: jhussain@amphenol-industrial.com

Asia:
Amphenol Technology (Zhuhai) Co., Ltd.
No. 63 Xin Han Road, San Zao Town
Jin Wan District, Zhuhai City, China 519040
Tel: +86 756-3989760
Fax: +86 756-3989768

Email: enquiry@amphenol-aio.com



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.