



## 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/2.5mm<sup>2</sup> to 8AWG/10mm<sup>2</sup>, 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/2.5mm<sup>2</sup> to 8AWG/10mm<sup>2</sup>
- 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 <sup>2</sup> /14AWG), 20A (4.0mm <sup>2</sup> /12AWG), 30A (6.0mm <sup>2</sup> /10AWG), 50A (10.0mm <sup>2</sup> /8AWG)
	TÜV	1500V per IEC 62852, Class A Unrestricted Use	31A @85°C; 29A @90°C (2.5mm <sup>2</sup> /14AWG), 42A @85°C; 39A @90°C (4.0mm <sup>2</sup> /12AWG), 53A @85°C; 49A @90°C (6.0mm <sup>2</sup> /10AWG), 75A @85°C; 69A @90°C (10.0mm <sup>2</sup> /8AWG)
	JET	1500V per IEC 61730	30A (2.5mm <sup>2</sup> /14AWG), 40A (4.0mm <sup>2</sup> /12AWG), 50A (6.0mm <sup>2</sup> /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 <sup>2</sup> /14AWG to 6.0mm <sup>2</sup> /10AWG (UTX) & Ø7.6 – 9.3mm for Size 10.0mm <sup>2</sup> /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	<i>Flammability Classification:</i> UL 94 V-0 <i>UV Resistance:</i> 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	Without Contact	A Triple Certifications for UTX (UL/TÜV/JET) Dual Certifications for UTX-XL (UL/TÜV)	I	1 pc/bag
			B	CF Contact	2	2.5mm <sup>2</sup> / 14AWG		C	100 pcs/bags
		M Male (-)	L	CF Contact for UTX-XL, only	4	4mm <sup>2</sup> / 12AWG		M	500 pcs/bags
					6	6mm <sup>2</sup> / 10AWG			
				8	10mm <sup>2</sup> / 8AWG				

\*When ordering a S&F contact, please use cable size order code "4" for both 4.0mm<sup>2</sup>/ 12AWG & 6.0mm<sup>2</sup>/ 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	R (2000 pcs/reel)
		M	Male (-)	4	

## 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