Amphenol®

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. Enhancement's 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

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UTX™ PV Connector

U® E 469330   TÜV R 50340393   JET 1650-C4302-170

Technical Data

Rated Voltages & Currents	UL	1500V per UL 6703	15A (2.5mm²/14AWG), 20A (4.0mm²/12AWG), 30A (6.0mm²/10AWG), 50A (10.0mm²/8AWG)
	TÜV	1500V per IEC 62852, Class A Unrestricted Use	31A @85°C; 29A @90°C (2.5mm²/14AWG), 42A @85°C; 39A @90°C (4.0mm²/12AWG), 53A @85°C; 49A @90°C (6.0mm²/10AWG), 75A @85°C; 69A @90°C (10.0mm²/ 8AWG)
	JET	1500V per IEC 61730	30A (2.5mm² /14AWG), 40A (4.0mm²/12AWG), 50A (6.0mm²/10AWG)
Typical contract 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 2.5mm²/14AWG to 6.0mm²/10AWG (UTX) & Ø7.6 – 9.3mm for Size 10.0mm²/8AWG (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	Without Contact	Triple Certifications for UTX (UL/TÜV/JET) Dual Certifications for UTX-XL (UL/TÜV)	I	1 pc/bag
						2	2.5mm²/ 14AWG		C	100 pcs/bags
				B	CF Contact	4	4mm²/ 12AWG			
		M	Male (-)			6	6mm²/ 10AWG		M	500 pcs/bags
				L	CF Contact for UTX-XL, only	8	10mm²/ 8AWG			

*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	2.5mm²/ 14AWG	R (2000 pcs/reel)
		M	Male (-)	4	4.0mm²/12AWG & 6.0mm²/ 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 WrenchTool

UTX Socket Tool

UTX Male Sealing Cap

UTX Female Sealing Cap

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