

Amphenol®

Industrial Solar Technologies



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H4 Plus™ PV Cable Connector

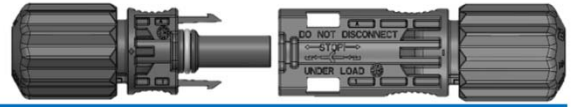
The H4 Plus™ from Amphenol Industrial Solar Technologies (AIST) is a robust, dual-certified DC connector with UL 6703 1500V & IEC 62852 (ed.1); am 1 1500V (Class A) specifications and certifications. As an evolution of AIST's well-known H4 connector, the H4 Plus™ includes the same excellent durability, the same Amphenol-compatible mating configuration, Amphenol's low resistance RADSOK® contact technology, ability to accept wire gauges from 14AWG/2.5mm² to 10AWG/6mm², and an IP68 rating. Enhancements over the H4 included in the H4 Plus™ are a ratcheting gland back nut, which prevents backspin once the nut is tightened, an enhanced sealing grommet for even better wet leakage performance, and optimized contact design for excellent long-term stability. By using gland nuts, environmental gaskets, wire-retention collets, and contacts that accept multiple wire gauges, part count is reduced and real cost-savings are generated. AIST's H4 Plus™ connector is the ideal choice for all PV modules and installations, regardless of end-market, around the world.

Features:

- 1500V dual-certified to UL 6703 and IEC 62852 by UL & TÜV
- Guaranteed to reliably mate with AIST's entire PV product line
- NEC Code Compliant (no locking sleeve required; UL certification only)
- 0.25 mΩ low resistance RADSOK® contact (Cold-formed contact)
- Both stamped and formed (S&F) and machined/cold-formed (CF) contact types available, for ease of field installation
- Accepts wire gauges from 14AWG/2.5mm² to 10AWG/6mm²
- Cable OD range from Ø5.0mm to Ø7.8mm (for IEC)
- IP68 Rating (when mated only)
- UV Resistance
- UL94 V-0 (self extinguishing)
- RoHS, REACH compliant
- Standard operating temperature range of -40°C to 85°C

Amphenol Solar Line

H4 Plus™ PV cable Connector



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)
	TÜV	1500V per IEC 62852, Class A Unrestricted Use, Safety Class 0	25A (2.5mm ² /14AWG), 35A (4.0mm ² / 12AWG), 45A (6.0mm ² /10AWG)
Typical contact resistance	~0.25mΩ using Amphenol's low resistance RADSOX® 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 RADSOX® contact technology		
Locking mechanism	Meets NEC NFPA 70, 690.33(C) requirement for self-locking with tool-required unlock (no separate parts/sleeves needed)		
Cable strain relief	Compression gland featuring a torque-limiting, anti-backspin, ratcheting gland nut (when used with tool H4TW0001, below)		
Ingress Protection Ratings	IP68, mated (1 meter, 24 hour) & IP2X touch-proof (reverse gender design)		
Ambient Temperature Range	-40°C to +85°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 compliant		
Cable OD Range	Ø5.0~Ø7.8mm		

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

1	2	3		4		5		6		7		8	
Product Line	Product Type	Gender		Connector Type		Cable Size		Certifications		Packaging		Contact Type	
H4 (H4 series)	S (H4 Plus)	F	Female (+)	C	Cable gland tool unlock	0	Without Contact	D	Dual UL/TÜV Certified	I	1 pc/bag	S	S&F
						2	2.5mm ² / 14AWG						
		M	Male (-)	D	Cable gland Manually unlock	4*	4.0mm ² /12 AWG	T	TÜV IEC Certification Only (no NEC lock)	C	100 pcs/bag	(Blank)	CF
						6	6.0mm ² / 10AWG						

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

How to Order S&F Contacts on a Reel of 2000 (please choose one code per position, below)

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

Tools and Accessories	Ordering Code
Crimp tool for CF contacts	UTXTC0004
Crimp tool for S&F contacts	UTXTC0003
H4 Plus Wrench & unlock tool	H4TW0001
Universal strip tool	H4TS0000
Universal unlock tool	H4TU0000
Protect cap	UTXPF/UTXPM
Inspection tool	H4TT0002



Crimp Tool



Wrench Tool



Strip Tool



Unlock Tool



Protect cap



Inspection tool

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