

# Amphenol®



## Amphe-PV H4 Plus™ Cable Connector

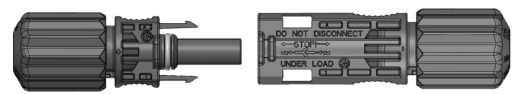
The Amphe-PV H4 Plus™ from Amphenol Industrial Sustainable Technologies (AIST) is a robust, dual-certified DC connector with UL 6703 1500V & IEC 62852 (ed.1); am 1 1500V (Class A) specifications and certifications. As an evolution of AIST's well-known H4 connector, the Amphe-PV H4 Plus™ includes the same excellent durability, the same Amphenol-compatible mating configuration, Amphenol's low resistance RADSOK® contact technology, ability to accept wire gauges from 14AWG/2.5mm<sup>2</sup> to 8AWG/10mm<sup>2</sup>, and an IP68 rating. Enhancements over the H4 included in the Amphe-PV 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 Amphe-PV 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)
- 0.20 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/2.5mm<sup>2</sup> to 8AWG/10.0mm<sup>2</sup>
- Anti-backspin ratcheting back nut gland
- Cable OD range from Ø5.0mm to Ø8.7mm
- IP68 Rating (when mated)
- UV Resistance
- UL94 V-0 (self-extinguishing)
- RoHS, REACH compliant
- Standard operating temperature range of -40°C to 85°C

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# Amphe-PV H4 Plus™ Cable Connector



## 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	25A (2.5mm <sup>2</sup> /14AWG), 35A (4.0mm <sup>2</sup> /12AWG), 45A (6.0mm <sup>2</sup> /10AWG), 65A (10.0mm <sup>2</sup> /8AWG)			
Typical Contact Resistance	~0.20mΩ 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® 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 OD Range	Ø5.0mm to Ø8.7mm					
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	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 gauge, style, or product line					
Material Safety	RoHS, REACH compliant					

## 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 (Amphe-PV H4 Plus)	F	Female (+)	C	Cable gland (tool unlock)	0	Without Contact	D	Dual UL/TÜV Certified	I	1 pc/bag, 800 pcs/ box	S	S&F
						2	2.5mm <sup>2</sup> /14AWG				100 pcs/bag, 800 pcs/ box		
		M	Male (-)	D	Cable gland (manually unlock)	4*	4.0mm <sup>2</sup> /12AWG	T	TÜV IEC Certification Only (no NEC lock)	M	400 pcs/bag, 800 pcs/ box	(Blank)	CF
						6	6.0mm <sup>2</sup> /10AWG						
					8**	10.0mm <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  
 \*\*10.0mm<sup>2</sup>/8AWG only available with Cold-Formed (CF) contacts

## 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 Contacts)	F Female (+)	2 2.5mm <sup>2</sup> /14AWG	R (2000 pcs/reel)
		M Male (-)	4 4.0mm <sup>2</sup> /12AWG & 6.0mm <sup>2</sup> /10AWG	

Tools and Accessories	Ordering Code
Crimp Tool for CF contacts	UTXTC0004
Crimp Tool for S&F contacts	UTXTC0003
Amphe-PV H4 Plus Wrench & Unlocking Tool	H4TW0001
Universal Strip Tool	H4TS0000
Universal Unlocking Tool	H4TU0000
Protective Cap	UTXPF/UTXPM
Inspection Tool	H4TT0002 H4TT0003 (8AWG Only)



Crimp Tool



Wrench Tool



Strip Tool



Unlocking Tool



Protective Cap



Inspection Tool

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