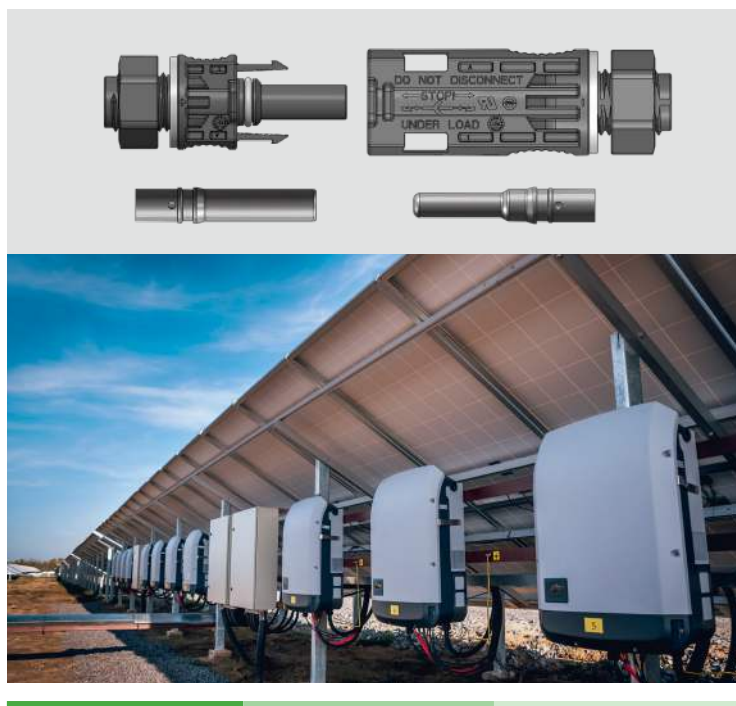# Amphenol®

Amphe-PV H4 Plus™ Panel Mounted Connector

The Amphe-PV H4 Plus™ Panel Mounted Connector from Amphenol Industrial Sustainable Technologies (AIST) is a robust, dual-certified DC connector with UL 6703 1500V & IEC 62852 (am.1); am 1 1500V (Class A) specifications and certifications. As an evolution of AIST's well-known H4 connector, the Amphe-PV H4 Plus™ Panel Mounted Connector 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 8AWG/10mm², and an IP68 rating. AIST's Amphe-PV H4 Plus™ Panel Mounted Connector is the ideal choice for all PV inverters, combiner boxes and power conditioners, regardless of the 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/2.5mm² to 8AWG/10.0mm²
- 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

Amphe-PV H4 Plus™ Panel Mounted Connector

UL E 339277 TÜV SÜD B 107201

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	25A (2.5mm²/14AWG), 35A (4.0mm²/12AWG), 45A (6.0mm²/10AWG), 65A (10.0mm²/8AWG)
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 seperate parts/sleeves needed)		
Cabe 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	-40ºC to +85ºC		
Enviornmental 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 (+)	M	M12 Panel Mount (tool unlock)	0	Without Contact	D	Dual UL/TÜV Certified	I	1 pc/bag, 800 pcs/ box	S	S&F
						2	2.5mm²/14AWG			C	100 pcs/bag, 800 pcs/ box		
		M	Male (-)	B	M12 Panel Mount (manually unlock)	4*	4.0mm²/12AWG	T	TÜV IEC Certification Only (no NEC lock)			(Blank)	CF
						6	6.0mm²/10AWG			M	400 pcs/bag, 800 pcs/ box		
						8**	10.0mm²/8AWG						

*When ordering a S&F contact, please use cable size order code "4" for both 4.0mm²/12AWG & 6.0mm²/10AWG
**10.0mm²/8AWG 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	2.5mm²/14AWG	R (2000 pcs/reel)
		M	Male (-)	4	4.0mm²/12AWG & 6.0mm²/10AWG	

Tools and Accessories

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