

Amphenol®

Industrial Solar Technologies



AUTHORISED REPRESENTATIVE:

MEDs Interconnect Pte Ltd

5012 Ang Mo Kio 5, #03-09 Techplace II
(East Wing), Singapore 569876

Email: sales.marketing@meds-int.com

Tel: +65 6235 6355

H4 Plus™ PV Bulkhead 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); and 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 Bulkhead 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 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 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, 1 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 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 (+)	M	Bulkhead tool unlock	0	Without Contact	D	Dual UL/TÜV Certified	I	1 pc/bag	S	S&F
						2	2.5mm ² / 14AWG				100 pcs/bag		
		M	Male (-)	B	Bulkhead Manually unlock	4*	4.0mm ² /12 AWG	T	TÜV IEC Certification Only (no NEC lock)	C	400 pcs/bag	(Blank)	CF
						6	6.0mm ² / 10AWG				400 pcs/bag		

*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



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.

North America:
Amphenol Industrial
Operations 482 N. Mariposa
Rd, Bldg. A
Nogales, AZ 85621
Tel: (888) 364-9011
Fax: (520) 285-5134
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
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
jhussain@amphenol-industrial.com

Asia:
Amphenol Technology (Shenzhen) Co., Ltd.
Building C, 2nd Industrial Zone of Xia Shi Jia
Gongming Sub-district, Guangming New-district
Shenzhen, China 518106
Tel: +86 756-3989760
Fax: +86 756-3989768
enquiry@amphenol-aio.com