

# Amphenol®



## H4 PV Panel Mount Connector

Amphenol Industrial Solar Technologies (AIST) offers products and solutions for all segments of the solar electric system. AIST understands the need for efficient (low loss) power transfer, highly reliable, and cost effective solutions that are required to be competitive in this industry. We can provide panel manufacturers, installers, and OEM's with connectivity products for both thin film and crystalline silicon technologies. Amphenol has a broad range of technologies to help minimize the cost of inverters and power conditioners. Amphenol Industrial can help you power the planet with the sun. The H4 PV Panel Mount Connector is just one product of the many solar interconnect solutions AIST has to offer. For more information, please visit our website: [solar.amphenol-industrial.com](http://solar.amphenol-industrial.com)

### Features:

- UL 1500V DC, TÜV 1500V DC approved
- Meets all 2008/2011 NEC handbook requirements
- Quick and easy secure snap lock mating, per 2014 NEC handbook, paragraph 690.33(C)
- Simple unlocking tool meets NEC requirements
- Long-term UV resistance
- RoHS compliant
- Low contact resistance means low loss

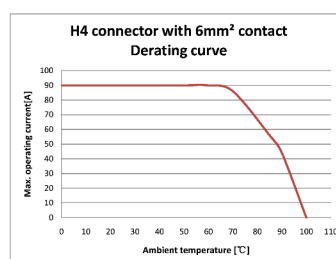
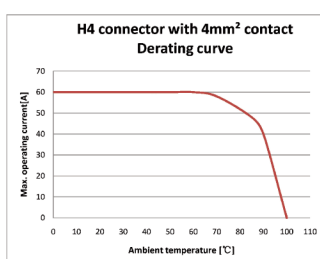
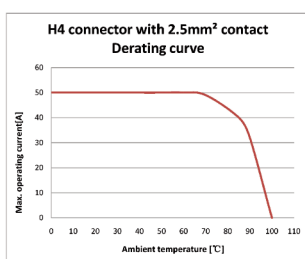
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## Technical Data

Rated Voltages & Currents	UL	1500V DC	15A (2.5mm <sup>2</sup> / 14AWG), 20A (4.0mm <sup>2</sup> / 12AWG), 30A (6.0mm <sup>2</sup> / 10AWG)
	TÜV	1500V DC	25A (2.5mm <sup>2</sup> / 14AWG), 35A (4.0mm <sup>2</sup> / 12AWG), 45A (6.0mm <sup>2</sup> / 10AWG)
Test Voltage	6kV for 1 minute, 10kV impulse (1.2/50µs)(IEC)		
Typical contact resistance	≤0.3mΩ		
Contact material	Tin-plated Copper		
Contact system options	Machined/Cold-formed (CF) OR Stamped & Formed (S&F), both with Amphenol's RADSOK® Insert		
Cable OD Ranges	4.5 – 7.8mm for Sizes 2.5mm <sup>2</sup> / 14AWG to 6.0mm <sup>2</sup> / 10AWG		
Locking mechanism	Meets 2014 NEC Handbook 690.33(C) requirement for self-locking with tool-required unlock		
Cable strain relief	Meets all UL and IEC standards for crimp strength and contact retention		
Ingress Protection Rating	IP68, mated (1 meter, 1 hour)		
Ambient temperature range	-40°C to +85°C		
Flammability Classification	UL 94 V-0		

## De-rating curves



## How to Order (where applicable, choose one code per position)

1	2	3	4	5	6	7	8		
Product Line	Product Type	Gender	Connector Type	Cable Size	Certifications	Packaging	Contact Type		
H4	C (Connector)	F Female (+)	M Bulkhead M12 Thread	0	D TÜV & UL	I 1 pc/bag	Leave Blank	CF Contact	
				2					2.5mm <sup>2</sup> / 14 WG
		M Male (-)		4		4.0mm <sup>2</sup> / 12AWG	M 500 pcs/bags	S*	S & F Contact
				6		6.0mm <sup>2</sup> / 10AWG			

\*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

## Tool and Accessory Order Codes

H4 Sealing Cap (for female)	H4PF
H4 Sealing Cap (for male)	H4PM
H4 Universal Unlocking Tool	H4TU0000
Crimp Tool (Machined Contact)	UTXTC0004 / UTXTC0005
Crimp Tool (S&F contact)	H4TC0003
H4 Wrench Tool	H4TW0001
Strip Tool	H4TS0000



H4 Sealing Cap Female



H4 Universal Unlocking Tool



H4 Wrench Tool



H4 Sealing Cap Male



Crimp Tool (S & F)



Strip Tool

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.

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