

Amphenol®



H4 PV 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 Connector is just one product out of many solar interconnect solutions AIST has to offer.

H4 Features:

- UL 1000V, TÜV 1500V, and CSA approved
- Fully intermateable with industry standard
- Meets all new NEC 2008/2011 requirements
- Quick and easy secure snap lock mating
- Simple unlocking tool meets NEC requirements
- Long-term UV and Ozone resistance
- Highest current rating in industry
- RoHS compliant
- Complete Cable Assemblies available
- Low contact resistance means low loss
- Ready for field assembly

www.amphenol-industrial.com



H4 PV Connector

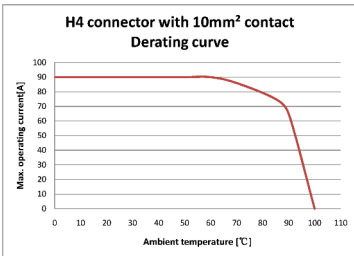
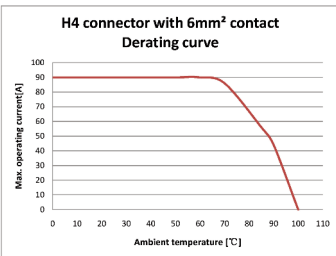
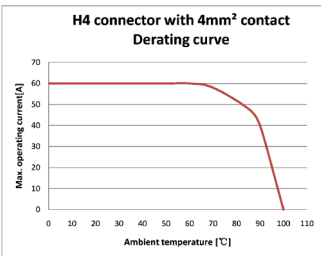
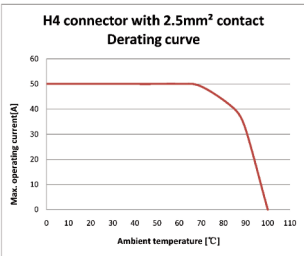


Technical Data

Rated current	32A(2.5mm, AWG14), 40A(4.0mm, AWG12), 44A(6.0mm, AWG10), 65A(10.0mm, AWG8)
Rated voltage	1500V (IEC/TÜV), 1000V(UL)
Test voltage	6kV for 1 minute, 10kV impulse (1.2/50µS)(IEC)
Typical contact resistance	0.25m Ω
Contact material	Copper, tin plated
Contact system	Machined/Cold Formed or Stamped & Formed with RADSOX® insert
Insulation material	PC
Locking mechanism	Snap-lock, special unlock tool required to un-mate as required by NEC2008
Cable strain relief	Compression gland with ratcheting gland nut
Degree of protection	IP68 (1 meter, 1 hour) mated
Safety class	II (IEC61140)
Pollution degree	2 (IEC60664)
Overvoltage category	III (IEC60664)
Flame class	UL94-V0
Ambient temperature range	-40°C to +85°C



Derating curves



How to order

1		2		3		4		5		6		7		8	
H4		C		F		C		2		D		I		S	
Product line		Product type		Gender		Connector type		Cable size		Approvals		Packaging		Variations	
H4	H4	C	Connector	F	Female +	C	Cable Gland	1	1.5-2.5mm²/ 16-14 AWG (S & F Contact)	T	TÜV	I	Single		Leave Blank for Machined Contact
				M	Male -			2	2.5mm²/ 14 AWG (Machined Contact)	U	UL	C	100 pcs Bag	S	S & F contact (Single contact)
				P	Mated pair			4	4.0mm²/ 12 AWG (Machined Contact)	D	Dual	M	500 pcs Bag		
								4	4.0-6.0mm²/ 12-10 AWG (S & F Contact)						
								6	6.0mm²/ 10 AWG (Machined Contact)						
								8	10.0mm²/ 8 AWG						
								0	Less Contacts						

How to order accessories

Description	Ordering code
H4 Sealing Cap Female	H4PF
H4 Sealing Cap Male	H4PM
H4 Strip Tool	H4TS0000
H4 Crimp Tool (machined contact)	H4TC0001
H4 Crimp Tool (S & F contact)	H4TC0002
H4 Wrench Tool	H4TW0001
H4 Universal Unlocking Tool	H4TU0000
H4 Tool-Kit	H4TK0000



H4 Tool-Kit



H4 Sealing Cap Female



H4 Sealing Cap Male



H4 Universal Unlocking Tool



H4 Crimp Tool



H4 Wrench Tool



H4 Strip Tool

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For further information on your individual application requirements, contact: Amphenol Corporation

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