

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, TUV 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 RADSOK [®] 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		2	3		4		5		6		7		8			
H4		С	F		С		2		D		I		S			
Product line		Product type		Gender		Connector type		Cable size		Approvals		Packaging		Variations		
H4	H4	С	Connector	F	Female +	С	Cable Gland	1	1.5-2.5mm²/ 16-14 AWG (S & F Contact)	т	TÜV	I	Single		Leave Blank for Machined Contac	
				М	Male -			2	2.5mm²/ 14 AWG (Machined Contact)	U	UL	С	100 pcs Bag	S	S & F contact (Single contact)	
				Ρ	Mated pair			4	4.0mm ² / 12 AWG (Machined Contact)	D	Dual	М	500 pcs Bag			
								4	4.0-6.0mm²/ 12-10 AWG (S & F Contact)							
								6	6.0mm ² / 10 AWG (Machined Contact)							
								8	10.0mm²/ 8 AWG							
								0	Less Contacts							
Ho	w to orde	er ac	cessorie	S									-	_		
Description Ordering code H4 Sealing Cap Female H4PF													J			
H4 Sealing Cap Male H4PM							H4 Sealing Cap Female		H4 Universal Unlocking			ng Tool H4 Wrench 1		Tool 👝		
H4 Strip Tool H4TS0000										~						
H4 Crimp Tool (machined contact) H4TC0001										1						
H4 Crimp Tool (S & F contact) H4TC0002									•							
			H4TW0001		H4 Tool-Kit								~			
H4 Universal Unlocking Tool				H4TU0000					H4 Sealing Cap Female		H4 Crimp Tool			H4 Strip Tool		
H4 Tool-Kit			H4	TK000	0											

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

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