

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 of the many solar interconnect solutions AIST has to offer. For more information, please visit our website: solar.amphenol-industrial.com

Features:

- UL 1500V, TÜV 1000V 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
- Ready for field assembly

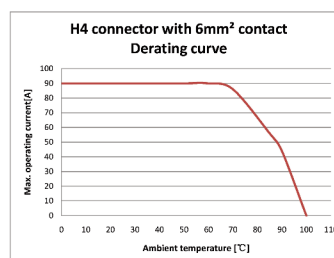
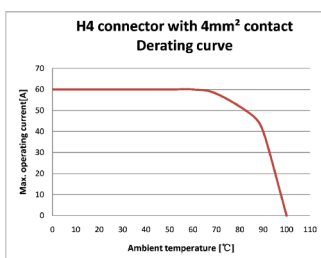
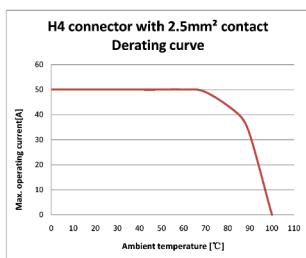
H4 PV Connector



Technical Data

| | | | |
|-----------------------------|-----------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------|
| Rated Voltages & Currents | UL | 1500V DC | 15A (2.5mm ² / 14AWG), 20A (4.0mm ² / 12AWG), 30A (6.0mm ² / 10AWG) |
| | TÜV | 1000V DC | 25A (2.5mm ² / 14AWG), 35A (4.0mm ² / 12AWG), 45A (6.0mm ² / 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 ² / 14AWG to 6.0mm ² / 10AWG | | |
| Locking Mechanism | Meets 2014 NEC handbook 690.33(C) requirement for self-locking with tool-required unlock | | |
| Cable Strain Relief | Compression gland featuring a torque-limiting, ratcheting gland nut (when used with tool H4TW0001, below) | | |
| 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 person)

| 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 (+) | C Cable Gland Type | 0 | D Dual TÜV & UL | I | 1 pc/bag | Leave Blank | CF Contact |
| | | | | | 2 | | | | | |
| | | 4 | 4.0mm ² / 12AW | | M | | 500 pcs/bags | S* | S & F Contact | |
| | | 6 | 6.0mm ² / 10AWG | | | | | | | |

*When ordering a S&F contact, please use cable size order code "4" for both 4.0mm²/ 12AWG & 6.0mm²/ 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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