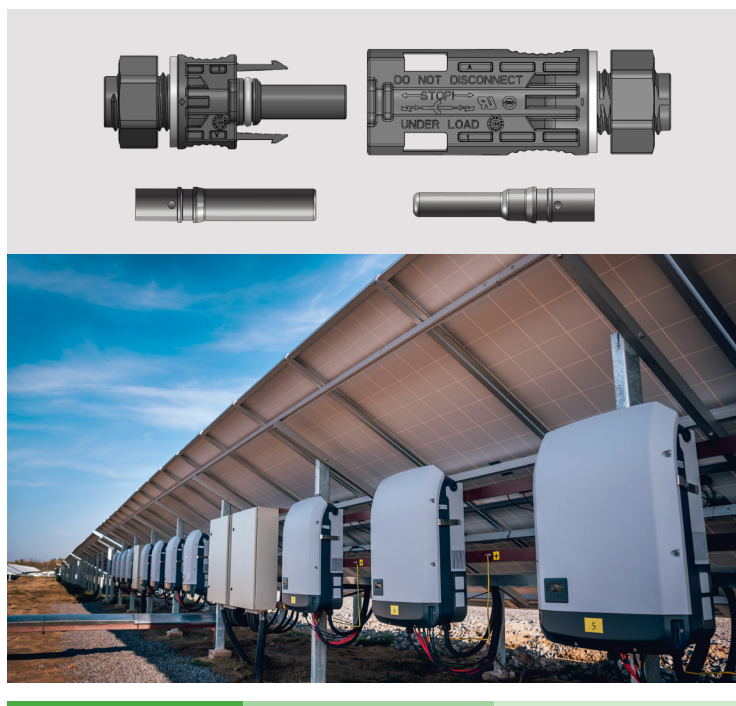


Amphenol®



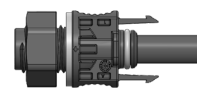
Amphe-PV H4 Plus™ Panel Mounted Connector

The Amphe-PV H4 Plus™ Panel Mounted Connector from Amphenol Industrial Sustainable Technologies (AIST) is a robust, dual-certified DC connector with UL 6703 1500V & IEC 62852 (am.1); am 1 1500V (Class A) specifications and certifications. As an evolution of AIST's well-known H4 connector, the Amphe-PV H4 Plus™ Panel Mounted Connector 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 8AWG/10mm², and an IP68 rating. AIST's Amphe-PV H4 Plus™ Panel Mounted Connector is the ideal choice for all PV inverters, combiner boxes and power conditioners, regardless of the 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)
- 0.20 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 8AWG/10.0mm²
- Cable OD range from Ø5.0mm to Ø8.7mm
- IP68 Rating (when mated)
- UV Resistance
- UL94 V-0 (self-extinguishing)
- RoHS, REACH compliant
- Standard operating temperature range of -40°C to 85°C

Amphe-PV H4 Plus™ Panel Mounted 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), 50A (10.0mm ² /8AWG) | | |
| | TÜV | 1500V per IEC 62852, Class A | 25A (2.5mm ² /14AWG), 35A (4.0mm ² /12AWG), 45A (6.0mm ² /10AWG), 65A (10.0mm ² /8AWG) | | |
| Typical Contact Resistance | ~0.20mΩ 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 OD Range | Ø5.0mm to Ø8.7mm | | | | |
| 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, 24 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 gauge, style, or product line | | | | |
| Material Safety | RoHS, REACH compliant | | | | |

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 (Amphe-PV H4 Plus) | F | Female (+) | M | M12 Panel Mount (tool unlock) | 0 | Without Contact | D | Dual UL/TÜV Certified | I | 1 pc/bag, 800 pcs/ box | S | S&F | |
| | | | | | | 2 | 2.5mm ² /14AWG | | | | 100 pcs/bag, 800 pcs/ box | | | |
| | | M | Male (-) | B | M12 Panel Mount (manually unlock) | 4* | 4.0mm ² /12AWG | T | TÜV IEC Certification Only (no NEC lock) | C | M | 400 pcs/bag, 800 pcs/ box | (Blank) | CF |
| | | | | | | 6 | 6.0mm ² /10AWG | | | | | | | |
| | | | | | 8** | 10.0mm ² /8AWG | | | | | | | | |

*When ordering a S&F contact, please use cable size order code "4" for both 4.0mm²/12AWG & 6.0mm²/10AWG
 **10.0mm²/8AWG only available with Cold-Formed (CF) contacts

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 Contacts) | 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

| Tools and Accessories | Ordering Code |
|--|----------------------|
| Crimp Tool for CF contacts | UTXTC0004 |
| Crimp Tool for S&F contacts | UTXTC0003 |
| Amphe-PV H4 Plus Wrench & Unlocking Tool | H4TW0001 |
| Universal Strip Tool | H4TS0000 |
| Universal Unlocking Tool | H4TU0000 |
| Protective Cap | UTXPF/UTXPM |
| Inspection Tool | H4TT0002 |
| | H4TT0003 (8AWG Only) |



Crimp Tool



Wrench Tool



Strip Tool



Unlocking Tool



Protective Cap



Inspection 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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