

Amphenol®



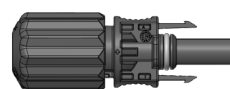
Amphe-PV H4 Plus™ Cable Connector

The Amphe-PV H4 Plus™ from Amphenol Industrial Sustainable Technologies (AIST) is a robust, dual-certified DC connector with UL 6703 1500V & IEC 62852 (ed.1); am 1 1500V (Class A) specifications and certifications. As an evolution of AIST's well-known H4 connector, the Amphe-PV H4 Plus™ 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. Enhancements over the H4 included in the Amphe-PV H4 Plus™ are a ratcheting gland back nut, which prevents backspin once the nut is tightened, an enhanced sealing grommet for even better wet leakage performance, and optimized contact design for excellent long-term stability. By using gland nuts, environmental gaskets, wire-retention collets, and contacts that accept multiple wire gauges, part count is reduced and real cost-savings are generated. AIST's Amphe-PV H4 Plus™ connector is the ideal choice for all PV modules and installations, regardless of 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
- Anti-backspin ratcheting back nut gland
- 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™ Cable Connector



Technical Data

| | | | | | |
|----------------------------|--|------------------------------|--|--|--|
| Rated Voltages & Currents | UL | 1500V per UL 6703 | 15A (2.5mm²/14AWG), 20A (4.0mm²/12AWG), 30A (6.0mm²/10AWG), 50A (10.0mm²/8AWG) | | |
| | TÜV | 1500V per IEC 62852, Class A | 25A (2.5mm²/14AWG), 35A (4.0mm²/12AWG), 45A (6.0mm²/10AWG), 65A (10.0mm²/8AWG) | | |
| 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 seperate parts/sleeves needed) | | | | |
| Cabe 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 | | | | |
| Envirnmental 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 (+) | C | Cable gland (tool unlock) | 0 | Without Contact | D | Dual UL/TÜV Certified | I | 1 pc/bag, 800 pcs/ box | S | S&F |
| | | | | | | 2 | 2.5mm²/14AWG | | | C | 100 pcs/bag, 800 pcs/ box | | |
| | | M | Male (-) | D | Cable gland (manually unlock) | 4* | 4.0mm²/12AWG | T | TÜV IEC Certification Only (no NEC lock) | M | 400 pcs/bag, 800 pcs/ box | (Blank) | CF |
| | | | | | | 6 | 6.0mm²/10AWG | | | | | | |
| | | | | | | 8** | 10.0mm²/8AWG | | | | | | |

*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 (+) | R (2000 pcs/reel) |
| | | M | Male (-) | |

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



Unlocking Tool



Wrench Tool



Protective Cap



Strip Tool



Inspection Tool

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