Amphenol®

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/10mm²
- 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

www.amphenol-industrial.com
### Technical Data

| UL | TÜV | 15A (2.5mm²/14AWG), 20A (4.0mm²/12AWG), 30A (6.0mm²/10AWG), 50A (10.0mm²/8AWG) |
| 1500V per UL 6703 | 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 separate parts/sleeves needed)

**Cable OD Range**

0.05mm to 0.08mm

**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

**Intermatchability**

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)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Line</td>
<td>Product Type</td>
<td>Gender</td>
<td>Connector Type</td>
<td>Cable Size</td>
<td>Certifications</td>
<td>Packaging</td>
<td>Contact Type</td>
</tr>
<tr>
<td>H4 (H4 Series)</td>
<td>S (Amphenol H4 Plus)</td>
<td>F</td>
<td>Female (+)</td>
<td>C</td>
<td>Cable gland (tool unlock)</td>
<td>0</td>
<td>Without Contact</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M</td>
<td>Male (-)</td>
<td>D</td>
<td>Cable gland (manually unlock)</td>
<td>2</td>
<td>2.5mm²/14AWG</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
<td>4.0mm²/12AWG</td>
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<td></td>
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<td>8</td>
<td>10.0mm²/8AWG</td>
</tr>
</tbody>
</table>

*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**

### Technical Data

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0.05mm to 0.08mm

**Cable Strain Relief**

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**Environmental Ratings**

Flammability Classification: UL 94 V-0

**Intermatchability**

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RoHS, REACH compliant

### How to Order S&F Contacts on a Reel of 2000 (please choose one code per position, below)

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<thead>
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<th>3</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Product Line</td>
<td>Product Type</td>
<td>Gender</td>
<td>Cable Size</td>
<td>Packaging</td>
</tr>
<tr>
<td>UTX</td>
<td>F</td>
<td>Female (+)</td>
<td>2.5mm²/14AWG</td>
<td>R (2000 pcs/reel)</td>
</tr>
<tr>
<td></td>
<td>M</td>
<td>Male (-)</td>
<td>4.0mm²/12AWG &amp; 6.0mm²/10AWG</td>
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</table>

### Tools and Accessories

| Crimp Tool for CF contacts | UTXTC0004 |
| Crimp Tool for S&F contacts | UTXTC0003 |
| Amphenol H4 Plus Wrench & Unlocking Tool | H4TW0001 |
| Universal Strip Tool | H4TS0000 |
| Universal Unlocking Tool | H4TU0000 |
| Protective Cap | UTXPF/UTXPM |
| Inspection Tool | H4TT0002/H4TT0003 (BAW Only) |

### Notice

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