



H4 Plus™ P2KV Connector

Introducing the H4 Plus™ P2KV Connector—the next evolution in high-voltage solar connectivity. Engineered for 2000V DC photovoltaic systems, it delivers the performance, safety, and reliability required for next-generation solar and energy storage installations. Internationally certified by ETL and TÜV, the H4 Plus™ P2KV helps maximize system efficiency while meeting current industry requirements.

Designed for high-current, high-voltage applications, the H4 Plus™ P2KV features ultra-low contact resistance of $\leq 0.25 \text{ m}\Omega$, helping minimize power loss and maintain long-term system performance. It is mating-compatible with the H4 connector family and is available in both field-assembled and preassembled configurations. Dedicated tooling supports fast, reliable, and repeatable installation.

Built to withstand demanding outdoor environments, the H4 Plus™ P2KV accommodates cable diameters from $\text{Ø}8.38 \text{ mm}$ to $\text{Ø}11.0 \text{ mm}$ and provides IP68 protection when properly mated. Its flame-resistant UL94-V0 construction, UV resistance, and compliance with RoHS and REACH requirements support safe, reliable, and environmentally responsible operation. The H4 Plus™ P2KV is a dependable connection solution for utility-scale solar plants, energy storage systems, combiner boxes, and inverters operating at up to 2000V DC.

Features:

- Internationally certified with ETL & TÜV, approved for DC 2000V DC unrestricted access
- $\leq 0.25 \text{ m}\Omega$ low resistance high-quality contact ensures consistently low performance loss throughout the entire service life
- Mating compatibility with H4 connector family.
- Available as a field and preassembled connector, relevant dedicated tools are equipped and available for use
- Cable OD range from $\text{Ø}8.38 \text{ mm}$ to $\text{Ø}11.0 \text{ mm}$
- High IP degree (IP68 1m/1h, when mated)
- UL94-V0 (self-extinguishing)
- UV resistance
- RoHS, REACH compliant

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Technical Data	
Rated Voltage	UL6703 2000V DC
Rated Current (IEC @85°C)	70 A (TÜV)
Rated Current (UL @85°C)	65 A (ETL)
Rated impulse voltage	20 kV (IEC)
Typical contact resistance	≤ 0.25mΩ
Insulation material	Thermoplastic (PC/PA)
Contact Material	Copper, tin-plated
Type of connection	Crimping
Application Class	Class A
Over voltage category	III
Degree of Protection	IP65/IP68(1 meter, 1hour) mated, IP2X unmated
Flame class	UL94-V0
Cable OD range	Ø8.38–Ø11.0 mm / 7–126 strands
Pollution Degree	3 (2 inside enclosure)
Safety Class	Class II
Ambient Temperature range	-40°C ~ +85°C
Upper limiting temperature	115°C
Locking system	Snap locking

How to order H4 Plus™ P2KV Connectors:														
Product Line	Product Name	Gender		Connector Type		Wire Cross Section		Certification		Packing		Terminal Type		Body Material
H4	N	F	Female (+)	C	Cable gland tool unlock	9	6 AWG / 16 mm²	D	TÜV & ETL	M	400 pcs/bag	C	Cold Formed Terminal	PC
Amphenol Solar Connectors	H4 Plus™ P2KV	M	Male (-)								800 pcs/box			

Ordering Code	Description
H4TTC0002	Handheld Electric Crimp Tool
H4TTD0002	Crimp Die
H4TS0001	Strip Tool
H4TU0000	Universal Unlocking Tool
H4TW0010	Torque Wrench and Unlocking Tool
HH4SPM	Protective Cap for male side
HH4SPF	Protective Cap for female side
H4TT0003	Contact Depth Inspection Tool
H4TTW300	Open-End Back Cap Spanner



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