Amphenol®

H4 PRO™ PV Connector

Introducing the H4 PRO™ Solar Connector – the ultimate game-changer in solar energy connections. These connectors bring unmatched reliability and efficiency to your solar installations, backed by international certifications with IEC and UL standards. Approved for DC 1500 V, the H4 PRO™ ensures maximum power transmission with unbeatable safety and performance.

Designed for superior performance, these connectors feature ultra-low resistance contacts ($\leq$0.30mΩ), delivering minimal power loss and long-term durability. Seamlessly compatible with the H4 family, the H4 PRO™ Solar Connectors offer incredible flexibility with options for both field and preassembled installations. Installation is a breeze with standard crimping tools, and no locking sleeve is needed for UL compliance, making them even more convenient.

Built to endure the harshest environments, these connectors have a rugged IP68 rating (1m/1h when mated) and a cable OD range from Ø4.5mm to Ø7.8mm. Plus, they're flame-resistant (UL94-V0), UV-resistant, and fully compliant with RoHS and REACH, ensuring safe, eco-friendly operation. Experience the future of solar with the H4 PRO™ Solar Connectors – your go-to choice for high-performance, long-lasting solar solutions.

Features:
- The smaller back cap OD is designed to ensure compatibility with the newest, thinnest PV module frames, thereby ensuring optimal packing density
- Internationally certified with IEC, UL, Approved for DC 1500V (IEC62852:2014+A1), DC 1500 V (UL6703) unrestricted access
- $\leq$0.30mΩ 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, standard crimping tools can be used
- NEC code compliant (no locking sleeve required; UL certification only)
- Cable OD range from Ø4.5mm to Ø7.8mm
- High IP degree (IP68 1m/1h, when mated)
- UL94-V0 (self-extinguishing)
- UV resistance
- RoHS, REACH compliant

www.amphenol-industrial.com

H4 PRO™ PV Connectors

Technical Data

Rated Voltage	UL6703 1500V DC / IEC62852:2014+A1 , 1500V DC
Rated Current (IEC @85°C)	25A (2.5mm²/14AWG), 41A (4.0mm²/12AWG), 45A (6.0 mm²/10AWG)
Rated Current (UL @85°C)	15A (14AWG), 35A(12AWG), 35A(10AWG)
Rated impulse voltage	16KV (IEC)
Typical contact resistance	≤ 0.3mΩ for Stamped & Formed contact ,TYP
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, 1hours) mated, IP2X unmated
Flame class	UL94-V0
Cable OD range	Ø4.5mm ~ Ø7.8mm
Pollution Degree	2
Safety Class	Class II
Ambient Temperature range	-40°C ~ +85°C
Upper limiting temperature	115°C
Locking system	Snap locking

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)	V (H4 PRO™)	F	Female (+)	C	Cable connector	0	Less contacts	T	TÜV	M — 500 pcs/bag 1000 pcs/box	S	Stamped & formed
				M	Bulkhead M12	2	2.5mm²/14AWG (S&F)					
		M	Male (-)	D	Manually unlocking cable connector	4	4mm²/12AWG (S&F)	D	TÜV & UL		(Blank)	Without contact
						6	6mm²/10AWG (S&F)					
				B	Manually unlocking bulkhead M12							

How to Order Contacts on a Reel (stamped & formed only)

Ordering Code	Description	Contacts per reel
H4SF2R	2.5mm/14AWG socket	2000
H4FM2R	2.5mm/14AWG pin	2000
H4SF4R	4 & 6mm/10 & 12AWG socket	2000
H4FM4R	4 & 6mm/10 & 12AWG pin	2000

Tools and Accessories

Tools and Accessories	Ordering Code
Crimp tool (for S&F terminals)	H4TC0003
Strip tool	H4TS0000
Universal unlocking tool	H4TU0000
Torque wrench and unlocking tool	H4TW0008
Protective cap for male side	H4SPM
Protective cap for female side	H4SPF
Contact depth Inspection tool	H4TT0001

Crimp Tool

Wrench Tool

Strip Tool

Unlocking Tool

Protective Cap

Inspection Tool