

# 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 ( $\leq 0.30\text{m}\Omega$ ), 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  $\text{Ø}4.5\text{mm}$  to  $\text{Ø}7.8\text{mm}$ . 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
- $\leq 0.30\text{m}\Omega$  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, standard crimping tools can be used
- NEC code compliant (no locking sleeve required; UL certification only)
- Cable OD range from  $\text{Ø}4.5\text{mm}$  to  $\text{Ø}7.8\text{mm}$
- High IP degree (IP68 1m/1h, when mated)
- UL94-V0 (self-extinguishing)
- UV resistance
- RoHS, REACH compliant

# H4 PRO™ PV Connectors



## Technical Data

Rated Voltage	UL6703 1500V DC / IEC62852:2014+A1 , 1500V DC
Rated Current ( IEC @85°C)	25A (2.5mm <sup>2</sup> /14AWG), 41A (4.0mm <sup>2</sup> /12AWG), 45A (6.0 mm <sup>2</sup> /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	500 pcs/bag	S Stamped & formed
			M Bulkhead M12	2 2.5mm <sup>2</sup> /14AWG (S&F)			
		M Male (-)	D Manually unlocking cable connector	4 4mm <sup>2</sup> /12AWG (S&F)	D TÜV & UL	M 1000 pcs/box	(Blank) Without contact
			B Manually unlocking bulkhead M12	6 6mm <sup>2</sup> /10AWG (S&F)			

## 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

## 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



Unlocking Tool



Wrench Tool



Protective Cap



Strip Tool



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.

North America:  
Amphenol Industrial Operations  
482 N. Mariposa Rd, Bldg. A  
Nogales, AZ 85621  
Tel: (888) 364-9011  
Fax: (520) 285-5134

Email: tech@amphenol-aio.com

Europe:  
Amphenol Industrial Operations Europe  
Via Barbaiana 5  
1-20020 Lainate (MI) Italy  
Tel: +39 02 93254.204  
Fax: +39 02 93254.444

Email: info@amphenol-aio.com

Middle East:  
Amphenol Middle East Enterprises FZE  
Office C-37 PO Box 21107  
Ajman Free Zone, UAE  
Tel: +9 716-7422494  
Fax: +9 716-7422941

Email: jhussain@amphenol-industrial.com

Asia:  
Amphenol Technology (Shenzhen) Co., Ltd.  
Building C, 2nd Industrial Zone of XIA Shi Jia  
Gongming Sub-district, Guangming New-district  
Shenzhen, China 518106  
Tel: +86 755-29918389

Email: tech@amphenol-industrial.com