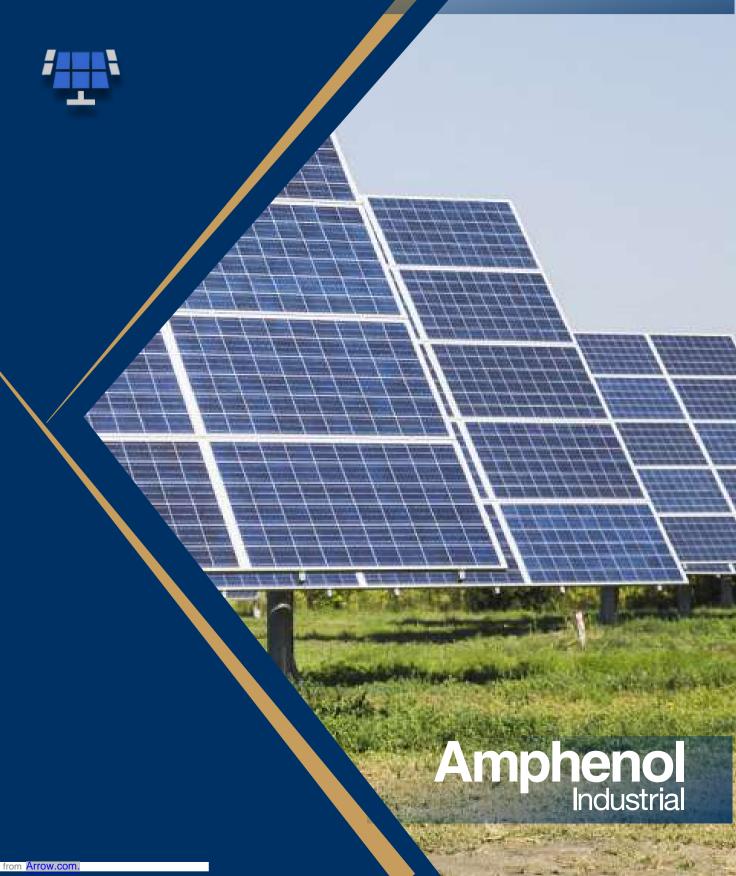
Amphenol Solar Interconnect Solutions







Markets

Enabling the Electronics Revolution One Market at a Time

Amphenol has a diversified presence across eight high-growth segments of the electronics industry: Military, Commercial Aerospace, Industrial, Automotive, IT Datacom, Mobile Networks, Mobile Devices and Broadband. Our goal is simple — to develop leading technologies that enhance the performance of our customers' products, systems and networks. Our products enable virtually all electronics systems, from sophisticated military communications systems to the latest mobile computing platforms, from next-generation airliners to advanced automotive electronics, from vast data centers to internet-connected devices, and from high-speed trains to the latest wind turbines. We are especially excited by our latest solutions in the many new markets that continue to emerge, including next-generation electric and autonomous vehicles, advanced battery storage systems, alternative energy generation, enterprise data centers and wearable consumer devices.

♦ Technologies

Amphenol is a technology leader in the design, manufacture and supply of highperformance interconnect systems, sensors and antennas for a broad range of industrial applications.

Amphenol's core competencies include application-specific industrial interconnect solutions utilizing integrated assemblies with both cable and flexible printed circuits, high-power interconnects requiring advanced engineering and system integration. Our innovative solutions facilitate the increasing demands of embedded computing and power distribution.



Our Business

One Culture, Connecting Our World

Each of our Amphenol businesses partner with their customers' across different market segments and regions to connect our world through leading-edge innovation. Our global businesses are as diverse as the customers they serve. All are united by one Amphenol culture – even though there are more than 100 businesses in the Amphenol family. No matter where you go, you're not far from Amphenol.

Sustainability

Environmental, Social and Governance

Amphenol's high-performance culture of entrepreneurial accountability is uniquely powerful in ensuring a sustainable future. By giving our local management around the world the authority to run their respective businesses, the entire Amphenol organization is empowered to truly "think globally, but act locally."



Applications and Benefits

Amphenol Industrial has become the "One Stop Shop" for the Photovoltaic market, with a complete line of products to cover the entire PV system.

We devote ourselves to designing, developing, selling and manufacturing the interconnect systems for the renewable energy market.

Our product line offers a complete package, centered around the H4 connector. Built on our foundation of efficient contact technology, the product is a reliable, cost effective solution. Amphenol's vast global manufacturing capability has addressed the needs of the solar industry with short lead times and tremendous capacity.





Our sales and customer service network are positioned all over the world. With localized factories, global market presence and technical support in Asia, North America and Europe, we respond quickly to customers' demands.

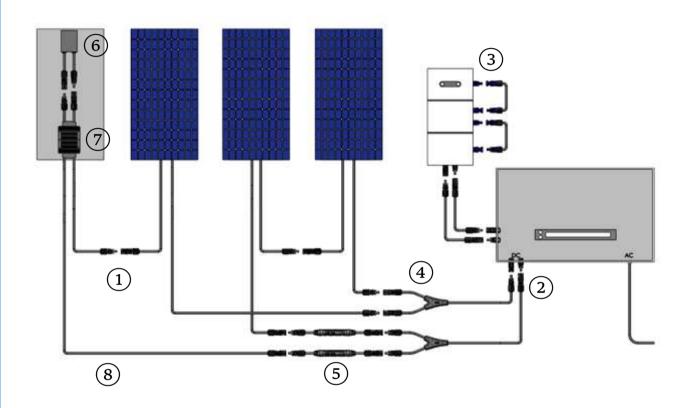
Amphenol Industrial is committed to leading through innovation in the renewable interconnect marketplace. Amphenol Industrial also collaborates with global best in class PV companies, who have advanced technologies and designs, which lead the industry.







Applications of the Amphenol Solar Product Portfolio



- 1. PV cable connector
- 2. PV panel mounted connector
- 3. PV DC connector for ESS
- 4. Y branch junction harness

- 5. Inline fuse junction harness
- 6. PV junction box
- 7. RSD junction box
- 8. PV cable

Contents

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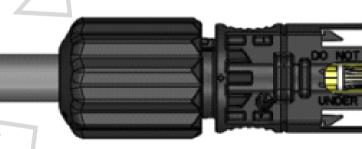
Advantages of Amphenol

RADSOK® Technology with long-term stability

Robust backnut gland design



Voltage level: UL 1000V/ 1500V DC TUV 1000V / 1500V DC



Cable Size Range:

- o 2.5mm2/14AWG
- o 4.0mm2/12AWG
- o 6.0mm2/10AWG
- o 10mm2/8AWG

Safety lock mechanism NEC2014

Solar Connectors





Overview of PV Connectors

Connectors	Rated C	Current	Rated V	oltage	Locking System	Unlock		greeof tection	Safety Class	Ambient Temperature	Sealing Cap	Page
	TUV	UL	TUV (V DC)	UL (V DC)			Mated	Unmated				
Cable Connectors												
H4™	25A/2.5mm² 35A/4mm², 45A/6mm²	15A/14AWG, 20A/12AWG, 30A/10AWG	1000	1500	Locking	Tool	IP65 IP68	IP2X	II	-40°C to +85°C	Х	5-6
Н4-Н	25A/2.5mm² 35A/4mm², 45A/6mm²		1000		Locking		IP65 IP68	IP2X	II	-40°C to +85°C	X	7-8
Amphe-PV H4 Plus™	25A/2.5mm² 35A/4mm², 45A/6mm²	15A/14AWG, 20A/12AWG, 30A/10AWG	1500	1500	Locking	Tool	IP65 IP68	IP2X	II	-40°C to +85°C	Х	21-22
Amphe-PV H4 Plus [™] (manual unlock)	25A/2.5mm ² 35A/4mm ² , 45A/6mm ²		1500		Locking		IP65 IP68	IP2X	II	-40°C to +85°C	Х	25-26
H4 Plus™ 8AWG/10mm²	65A /10mm²	50A/8AWG	1500	1500	Locking	Tool	IP65 IP68	IP2X	II	-40°C to +85°C	Х	23-24
H4-B	25A/2.5mm² 35A/4mm², 45A/6mm²		1000		Locking		IP65 IP68	IP2X	II	-40°C to +85°C	X	15-16
RadCrimp™ Solar Splice		20A/12AWG, 30A/10AWG		1500	/	/	IP68	IP2X	II	-40°C to +85°C	/	34-35
Panel Mounted Conr	nectors											
H4™	25A/2.5mm², 35A/4mm², 45A/6mm²	15A/14AWG, 20A/12AWG, 30A/10AWG	1100	1500	Locking	Tool	IP65 IP68	IP2X	II	-40°C to +85°C	Х	9-10
H4-H	25A/2.5mm², 35A/4mm², 45A/6mm²		1100		Locking		IP65 IP68	IP2X	II	-40°C to +85°C	Х	11-12
Amphe-PV H4 Plus™	25A/2.5mm², 35A/4mm², 45A/6mm²	15A/14AWG, 20A/12AWG, 30A/10AWG	1500	1500	Locking	Tool	IP65 IP68	IP2X	II	-40°C to +85°C	Х	27-28
Amphe-PV H4 Plus™ 8AWG/10mm²	65A/10mm²	50A/8AWG	1500	1500	Locking	Tool	IP65 IP68	IP2X	II	-40°C to +85°C	X	29-30
Amphe-PV H4 Plus™ (manual unlock)	25A/2.5mm², 35A/4mm², 45A/6mm²		1500		Locking		IP65 IP68	IP2X	II	-40°C to +85°C	X	31-32
Н4-В	25A/2.5mm², 35A/4mm², 45A/6mm²		1100		Locking		IP65 IP68	IP2X	II	-40°C to +85°C	Х	17-18

H4[™] Connectors



Features

- Guaranteed to reliably mate with Amphenol's entire PV product line
- NEC code compliant (no locking sleeve required; UL certification only)
- ≤0.30mΩ low resistance RADSOK® contact
- Both stamped and formed (S&F) and machined/cold-formed (CF) contact types available, for ease of field installation
- UV resistance
- RoHS, REACH compliant



H4TM

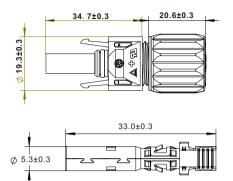
Cable Connectors

Part number: H4CFC......



S&F Contact

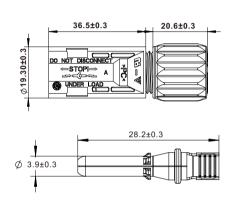




Part number: H4CMC......







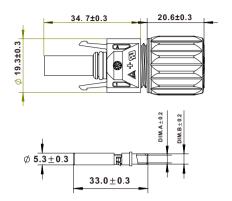
TechnicalData						
	UL	UL6703 1500V DC	15A /14AWG, 20A /12AWG, 30A /10AWG			
Rated Voltage & Current	TUV	IEC62852 am1 @85℃ (Class A) 1000V DC	25A/2.5mm², 35A/ 4.0mm², 45A / 6.0mm²			
Typical Contact Resistance	≤0.30	m Ω (stamped & formed cont	tact), \leq 0.25m Ω (cold formed contact)			
Rated Impulse Voltage	12KV (1000V per TUV)					
Ambient Temperature Range	-40°C to +85°C					
Upper Limiting Temperature	+120°C					
Ingress Protection Rating	IP68, 1	mated (1 m, 1 h) &IP2X touc	h-proof, unmated			
Type of Termination	Crimp					
Flame Class	UL94V-0					
Overvoltage Category/Pollution Degree	CAT III	/2				
Insulation Material	PC/PA					
Contact Material	Tin-plated Copper Alloy					
Cable OD Range	Ø4.5n	nm~7.8mm				
Material Safety	RoHS, REACH compliant					

Part number: H4CFC......

Cold Formed Contact



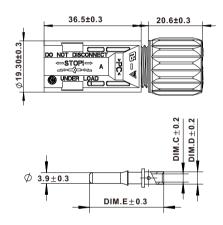




Part number: H4CMC......







Ordering No.	Plug	Receptacle	Cable	Cable Size		ntact Type	Certifications		
			mm²	AWG	S&F	Cold formed	TUV	UL	
H4CFC2DMS		*	2.5	14	*		*	*	
H4CMC2DMS	*		2.5	14	*		*	*	TÜVRheinland
H4CFC4DMS		*	4.0,6.0	12,10	*		*	*	R50388083
H4CMC4DMS	*		4.0,6.0	12,10	*		*	*	6 8
H4CFC2DM		*	2.5	14		*	*	*	<i>7</i> 7
H4CMC2DM	*		2.5	14		*	*	*	E339277
H4CFC4DM		*	4.0	12		*	*	*	
H4CMC4DM	*		4.0	12		*	*	*	
H4CFC6DM		*	6.0	10		*	*	*	
H4CMC6DM	*		6.0	10		*	*	*	

Notes:

Sealing caps on page 41. Assembly tools on page 42~44.

For more information please contact us (Assembly Instructions WI-S037-ENG, Chemical Exposure Checklist WI-S047-ENG).



H4-H

Cable Connectors

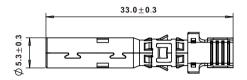
Part number: H4CFD......

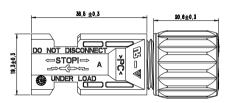


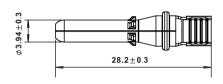
S&F Contact

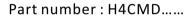


34.7±0.3 20.6±0.3













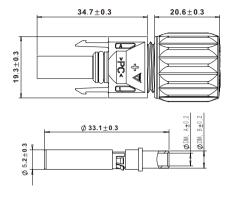
Technical Data							
Rated Voltage & Current	TUV	IEC62852 am1 @85°C (Class A) 1000V DC	25A/2.5mm²,35A/4.0mm²,45A/6.0mm²				
Typical Contact Resistance	≤0.30mΩ	0.30mΩ (stamped & formed contact), ≤ 0.25 mΩ (cold formed contact)					
Rated Impulse Voltage	12KV (1000V per TUV)						
Ambient Temperature Range	-40°C to +85°C						
Upper Limiting Temperature	+120°C						
Ingress Protection Rating	IP68, mated (1 m, 1 h) &IP2X touch-proof, unmated						
Type of Termination	Crimp						
FlameClass	UL94 V-0						
Overvoltage Category/Pollution Degree	CAT III/2						
Insulation Material	PC/PA						
Contact Material	Tin-plate	d Copper Alloy					
Cable OD Range	Ø4.5mm	~7.8mm					
Material Safety	RoHS, REACH compliant						

Part number: H4CFD......

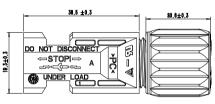








Part number : H4CMD......



 $\emptyset 27.4 \pm 0.3$

ØDM. A±0.2 ØDM. B±0.2





Ordering No.	Plug	Receptacle	Cable Size		Contact Type		Certifications	
			mm²	AWG	S&F	Cold formed	TUV	UL
H4CFD2TMS		*	2.5	14	*		*	
H4CMD2TMS	*		2.5	14	*		*	
H4CFD4TMS		*	4.0,6.0	12,10	*		*	
H4CMD4TMS	*		4.0,6.0	12,10	*		*	
H4CFD2TM		*	2.5	14		*	*	
H4CMD2TM	*		2.5	14		*	*	
H4CFD4TM		*	4.0	12		*	*	
H4CMD4TM	*		4.0	12		*	*	
H4CFD6TM		*	6.0	10		*	*	
H4CMD6TM	*		6.0	10		*	*	

Notes:

Sealing caps on page 41. Assembly tools on page 42~44.

For more information please contact us (Assembly Instructions WI-S037-ENG, Chemical Exposure Checklist WI-S047-ENG).



H4TM

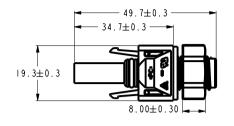
Panel Mounted Connectors

Part number: H4CFC......

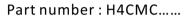
S&F Contact





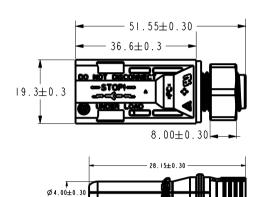












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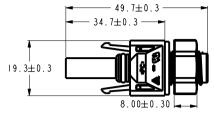
	UL	UL6703 1500V DC	15A /14AWG, 20A /12AWG, 30A /10AWG				
Rated Voltage & Current	TUV	IEC62852 am1 @85 $^{\circ}$ C (Class A) 1100V DC	25A/2.5mm², 35A/ 4.0mm², 45A / 6.0mm²				
Typical Contact Resistance	≤0.30m Ω (stamped & formed contact), ≤0.25m Ω (cold formed contact)						
Rated Impulse Voltage	12KV (10	00V per TUV))V per TUV)				
Ambient Temperature Range	-40°C to -	+85°C					
Upper Limiting Temperature	+120°C						
Ingress Protection Rating	IP68, mated (1 m, 1 h) &IP2X touch-proof, unmated						
Type of Termination	Crimp						
Flame Class	UL 94 V-0						
Overvoltage Category/Pollution Degree	CAT III/2						
Insulation Material	PC/PA						
Contact Material	Tin-plated Copper Alloy						
Cable OD Range	Ø4.5mm~7.8mm						
Material Safety	RoHS, REACH compliant						

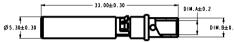
Part number: H4CFC......

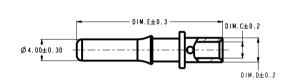
Cold formed Contact

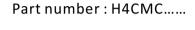
















OrderingNo.	Plug	Receptacle	Cable Size		Con	tact Type	Certifications		
			mm²	AWG	S&F	Cold formed	TUV	UL	
H4CFM2DMS		*	2.5	14	*		*		
H4CMM2DMS	*		2.5	14	*		*		A
H4CFM4DMS		*	4.0,6.0	12,10	*		*		TÛVRheinland 块证
H4CMM4DMS	*		4.0,6.0	12,10	*		*		R5038808
H4CFM2DM		*	2.5	14		*	*		
H4CMM2DM	*		2.5	14		*	*		27
H4CFM4DM		*	4.0	12		*	*		E339277
H4CMM4DM	*		4.0	12		*	*		
H4CFM6DM		*	6.0	10		*	*		
H4CMM6DM	*		6.0	10		*	*		

Notes:

Sealing caps on page 41.
Assembly tools on page 42~44.

For more information please contact us (Assembly Instructions WI-S060-ENG, Chemical Exposure Checklist WI-S047-ENG).



H4-H Panel Mounted Connectors

Part number: H4CFB......



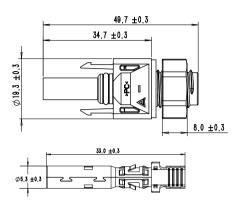
S&F Contact

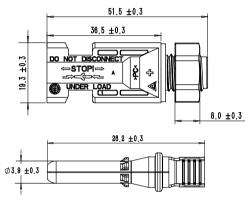


Part number: H4CMB......









Technical Data							
Rated Voltage & Current	TUV	IEC62852 am1 @85 $^{\circ}$ C (Class A) , 1100V DC	25A/2.5mm²,35A/4.0mm²,45A/6.0mm²				
Typical Contact Resistance	$\leq 0.30 \text{m}\Omega$ (stamped & formed contact), $\leq 0.25 \text{m}\Omega$ (cold formed contact)						
Rated Impulse Voltage	12KV (1000V per TUV)						
Ambient Temperature Range	-40°C to +85°C						
Upper Limiting Temperature	+120°C						
Ingress Protection Rating	IP68, mated (1 m, 1 h) &IP2X touch-proof, unmated						
Type of Termination	Crimp						
Flame Class	UL94V-0						
Overvoltage Category/Pollution Degree	CAT III/2						
Insulation Material	PC/PA						
Contact Material	Tin-plate	d Copper Alloy					
Cable OD Range	Ø4.5mm	~7.8mm					
Material Safety	RoHS, REACH compliant						

Part number: H4CFB......



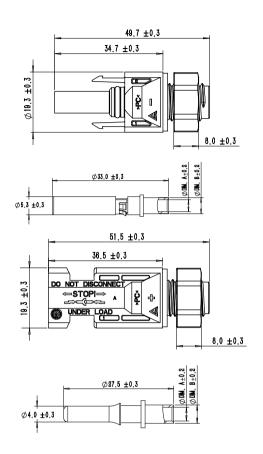




Part number: H4CMB......







OrderingNo.	Plug	Receptacle	Cable Size		Cc	ontact Type	Certifications		
			mm²	AWG	S&F	Coldformed	TUV	UL	
H4CFB2TMS		*	2.5	14	*		*		
H4CMB2TMS	*		2.5	14	*		*		
H4CFB4TMS		*	4.0,6.0	12,10	*		*		TÜVRheinland
H4CMB4TMS	*		4.0,6.0	12,10	*		*		R50388083
H4CFB2TM		*	2.5	14		*	*		
H4CMB2TM	*		2.5	14		*	*		
H4CFB4TM		*	4.0	12		*	*		
H4CMB4TM	*		4.0	12		*	*		
H4CFB6TM		*	6.0	10		*	*		
H4CMB6TM	*		6.0	10		*	*		

Notes:

Sealing caps on page 41. Assembly tools on page 42~44.

For more information please contact us (Assembly Instructions WI-S060-ENG, Chemical Exposure Checklist WI-S047-ENG).

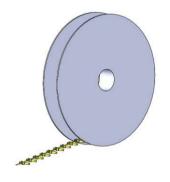


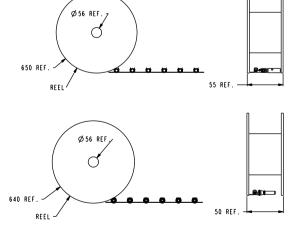
H4[™] series connectors ordering configurations

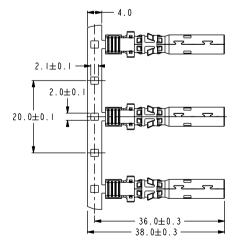
How to O	rder a Connec	tor	(Please	choc	se one code	per po	sition below)						
1	2		3		4	5			6		7	8	
Product Line	ProductType		Gender	C	Connector Type	Cable Size		C	Certifications		ckaging	Contact Type	
				C Cable gland (tool unlock)		0*1	Without Contact		Dual UL/TUV Certified	I*4	1 pc/bag		
	F Female (+)	D	Cable gland (H4-H)	2	2.5mm²/ 14AWG	D	C*5	100 pcs/bag		S	S&F		
H4 (H4 series)	С			М	M12 Panel mounted	4*2	4*2 4.0mm²/12 AWG		TUVIEC		F/ 248		
(114 301103)	(PV connector)				(tool unlock)								
		M	Male (-)	В	M12 Panel mounted (H4-H)	6	6.0mm²/ 10AWG	T* ³	Certification Only (no NEC lock)	M*6	500 pcs/bag	(Blank)	CF

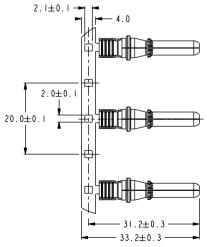
- *1 If planning to use S&F contacts on a reel (sold separately), please choose cable size code "0" to order just the connector with no contacts.
- *2 When ordering a S&F "Contact Type", please choose cable size order code "4" for both 4.0mm²/ 12AWG & 6.0mm²/ 10AWG
- *3 When ordering a manual unlock connector (H4-H), please choose "Certifications" code "T" for TUV certification only.
- *4 Individual packaging, 1pc/PE bag, 800pcs/carton box, for authorized distributors only.
- *5 100pcs/PE bag, 1000pcs/carton box, for authorized distributors only.
- *6 500pcs/PE bag, 1000pcs/carton box, standard packaging.

H4 stamped and formed contacts for automatic assembly use









How to Order S&F Contacts on a Reel of	· 2000 ncc (Dlasca chooca c	nne code per position helow)
Thow to Order 3&1 Contacts on a Neer of	Zuuu pus (Fiedse ulluuse u	file code per position below)

						/
1	2	3		4		5
ProductLine	ProductType	G	ender	Cable Size		Packaging
H4	F	F	Female (+)	2	2.5mm²/14AWG	R
П4	(S&F contact)	М	M Male (-)		4.0mm²/12AWG & 6.0mm²/10AWG	(2000 pcs/reel)

H4-B Connectors



Features

- Cost effective solution for solar battery storage applications
- Fool-proof design by color and insertion interference
- ≤0.3mΩ low resistance RADSOK® contact technology
- Both stamped and formed (S&F) and machined/cold-formed (CF) contact types available, for ease of field installation
- UV resistance
- UL94 V-0 (self-extinguishing)
- RoHS, REACH compliant



H4-B Cable Connectors

Part number: H4PFC......



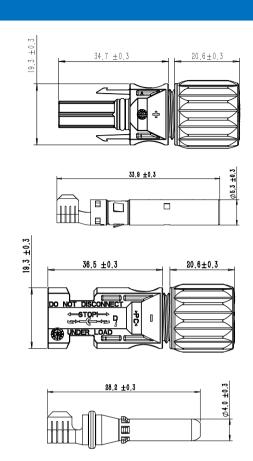
S&F Contact



Part number: H4PMC......







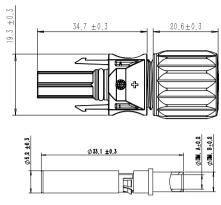
Technical Data								
Rated Voltage & Current	TUV	IEC62852 am1 @85°C (Class A) 1000V DC	25A/2.5mm ² ,35A/4.0mm ² ,45A/6.0mm ²					
Typical Contact Resistance	≤0.30mΩ	$\leq 0.30 m\Omega$ (stamped & formed contact), $\leq 0.25 m\Omega$ (cold formed contact)						
Rated Impulse Voltage	12KV (1000V per TUV)							
Ambient Temperature Range	-40°C to +85°C							
Upper Limiting Temperature	+120°C							
Ingress Protection Rating	IP68, mated (1 m, 1 h) &IP2X touch-proof, unmated							
Type of Termination	Crimp							
Flame Class	UL94 V-0							
Overvoltage Category/Pollution Degree	CAT III/2							
Insulation Material	PC/PA							
Contact Material	Tin-plate	d Copper Alloy						
Cable OD Range	Ø4.5mm	~7.8mm						
Material Safety	RoHS, RE	ACH compliant						

Part number: H4PFC......

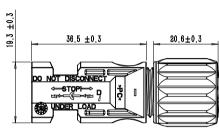






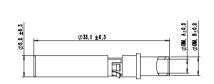


Part number: H4PMC......









Ordering No.	Plug	Receptacle	Cable Size		Contact Type		Certifications		
			mm²	AWG	S&F	Coldformed	TUV	UL	
H4PFC2TMS		*	2.5	14	*		*		
H4PMC2TMS	*		2.5	14	*		*		
H4PFC4TMS		*	4.0,6.0	12,10	*		*		TÛVRheinland
H4PMC4TMS	*		4.0,6.0	12,10	*		*		R50388083
H4PFC2TM		*	2.5	14		*	*		
H4PMC2TM	*		2.5	14		*	*		
H4PFC4TM		*	4.0	12		*	*		
H4PMC4TM	*		4.0	12		*	*		
H4PFC6TM		*	6.0	10		*	*		
Н4РМС6ТМ	*		6.0	10		*	*		

Notes:

Sealing caps on page 41. Assembly tools on page 42~44.

For more information please contact us (Assembly Instructions WI-S037-ENG, Chemical Exposure Checklist WI-S047-ENG).



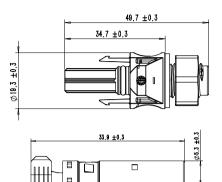
H4-B Panel Mounted Connectors

Part number: H4PFM......





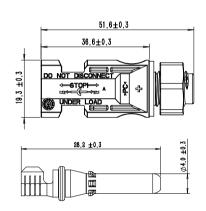




Part number: H4PMM......







Technical Data								
Rated Voltage & Current	TUV	IEC62852 am1 @85°C (Class A) ,1100V DC	25A/2.5mm², 35A/4.0mm², 45A/6.0mm²					
Typical Contact Resistance	≤0.30mΩ	≤0.30m Ω (stamped & formed contact), ≤0.25m Ω (coldformed contact)						
Rated Impulse Voltage	12KV (10	12KV (1000V per TUV)						
Ambient Temperature Range	-40°C to	-40°C to +85°C						
Upper Limiting Temperature	+120°C							
Ingress Protection Rating	IP68, mated (1 m, 1 h) & IP2X touch-proof, unmated							
Type of Termination	Crimp							
Flame Class	UL94V-0							
Overvoltage Category/Pollution Degree	CAT III/2							
Insulation Material	PC/PA							
Contact Material	Tin-plate	ed Copper Alloy						
Cable OD Range	Ø4.5mm	~7.8mm						
Material	RoHS, RE	ACH compliant						

Part number: H4PFM......



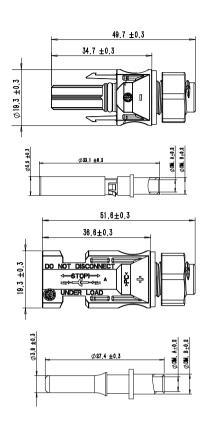
Part number: H4PMM......



Cold Formed Contact







Ordering No.	Plug	Receptacle	Cable Size		Contact Type			ns	
			mm²	AWG	S&F	Coldformed	TUV	UL	
H4PFM2TMS		*	2.5	14	*		*		
H4PMM2TMS	*		2.5	14	*		*		
H4PFM4TMS		*	4.0,6.0	12,10	*		*		TÜVRheinland
H4PMM4TMS	*		4.0,6.0	12,10	*		*		R50388083
H4PFM2TM		*	2.5	14		*	*		
H4PMM2TM	*		2.5	14		*	*		
H4PFM4TM		*	4.0	12		*	*		
H4PMM4TM	*		4.0	12		*	*		
H4PFM6TM		*	6.0	10		*	*		
Н4РММ6ТМ	*		6.0	10		*	*		

Notes:

Sealing caps on page 41. Assembly tools on page 42~44.

For more information please contact us (Assembly Instructions WI-S060-ENG, Chemical Exposure Checklist WI-S047-ENG).

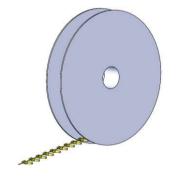


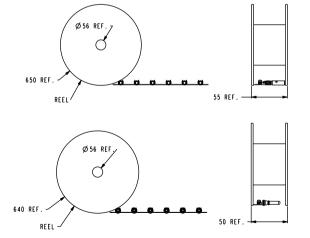
H4-B series connectors ordering configurations

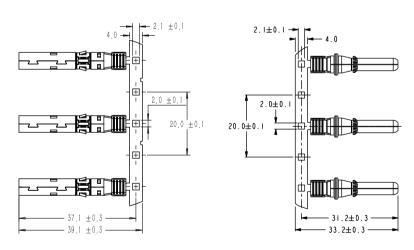
How to Or	How to Order a Connector (please choose one code per position, below)												
1	2		3	4		5		6		7		8	
Product Line	ProductType		Gender	C	Connector Type	Cable Size		Certifications		Packaging		Contact Type	
	_F Female				0*1	Without Contact	T*3	TÜV IEC Certification	M*4	500 pcs/bag			
H4	H4 P	F	(+)	С	Cable gland	2	2.5mm²/ 14AWG	1	Only (no NEC lock)		pes, sug	S	S&F
(H4 series)		H4-B)			M12 Panel	4*2	4.0mm²/12 AWG						
		N		Male (-)	M	mounted	6	6.0mm²/ 10AWG					(Blank)

- *1 When ordering S&F contacts in reel version, please choose cable size code "0", means housing assembly and S&F contact with separate packaging, need to order S&F contacts separately.
- *2 When ordering a S&F contact, please choose cable size order code "4" for both 4.0mm²/ 12AWG & 6.0mm²/ 10AWG.
- *3 When ordering a manually unlock connector, please choose Certification code "T" for TUV certification only.
- *4 500pcs/PE bag, 1000pcs/carton box, it's standard packaging.

H4 stamped and formed contacts for automatic assembly use







Ordering No.	Plug	Socket	Cable Size		Packaging
			mm²	AWG	
H4SF4R		*	4,6	12,10	2000pcs/reel, 5 reels/box
H4FM4R	*		4,6	12,10	2000pcs/reel, 5 reels/box

Amphe-PV H4 Plus[™] Connectors



Features

- $\leq 0.25 m\Omega$ low resistance RADSOK® contact which ensures consistently low performance loss throughout the entire service life of the plug connector
- Guaranteed to reliably mate with AIST's entire PV product line
- NEC code compliant (no locking sleeve required; UL certification only)
- A ratcheting gland backnut, which prevents backspin once the nut is tightened
- Both stamped and formed (S&F) and machined/cold-formed (CF) contact types available, for ease of field installation
- Available for assembly with cable sizes from 2.5mm²/14AWG to 10mm²/8AWG
- Cable OD range from Ø5.0mm to Ø8.8mm
- IP68 Rating (1m/24hours (mated condition)
- UV Resistance
- UL94 V-0 (self-extinguishing)
- RoHS, REACH compliant



Amphe-PV H4 Plus[™]

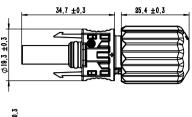
Cable Connectors

Part number: H4SFC......



S&F Contact



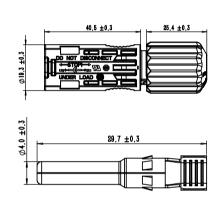


30,0 ±0,3

Part number: H4SMC......







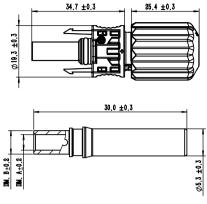
Technical Data									
	UL	UL6703 1500V DC	15A /14AWG, 20A /12AWG, 30A /10AWG						
Rated Voltage & Current	TUV	IEC62852 am1 @85°C (Class A) 1500V DC	25A/2.5mm²,35A/4.0mm²,45A/6.0mm²						
Typical Contact Resistance	≤0.25m	\leq 0.25 m Ω (stamped & formed contact), \leq 0.20 m Ω (cold formed contact)							
Rated Impulse Voltage	16KV (1500V per TUV)								
Ambient Temperature Range	-40°C to +85°C								
Upper limiting temperature	+120°C								
Ingress Protection Rating	IP68, mated (1 m, 24 h) &IP2X touch-proof, unmated								
Type of Termination	Crimp								
Flame Class Flame Class	UL94 V-0								
Overvoltage Category/Pollution degree	CAT III/2								
Insulation Material	PC/PA								
Contact Material	Tin-plate	dCopper Alloy							
Cable OD Range	Ø5.0mm	~7.8mm							
Material Safety	RoHS, RE	ACH compliant							

Part number: H4SFC......

Cold Formed Contact







Part number: H4SMC......





0 19.3 ± 0.3	40.5 ±0.3	25,4 ±0,3
DM, 8+0.2	29.7 ±0.3	Ø4.0 ±0.3

Ordering No.	Plug	Receptacle	Cable Size		Contact type		Certifications		
			mm²	AWG	S&F	Cold formed	TUV	UL	
H4SFC2DMS		*	2.5	14	*		*	*	
H4SMC2DMS	*		2.5	14	*		*	*	TI'N
H4SFC4DMS		*	4.0,6.0	12,10	*		*	*	SUD her abel lopes to cett
H4SMC4DMS	*		4.0,6.0	12,10	*		*	*	B 107201
H4SFC2DM		*	2.5	14		*	*	*	611 ®
H4SMC2DM	*		2.5	14		*	*	*	<i>Y</i> 7
H4SFC4DM		*	4.0	12		*	*	*	E339277
H4SMC4DM	*		4.0	12		*	*	*	
H4SFC6DM		*	6.0	10		*	*	*	
H4SMC6DM	*		6.0	10		*	*	*	

Notes:

Sealing caps on page 41. Assembly tools on page 42~44.

For more information please contact us (Assembly Instructions WI-S067-ENG, Chemical Exposure Checklist WI-S047-ENG).

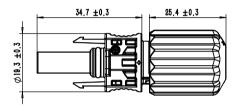


Amphe-PV H4 Plus™

Cable Connectors (8AWG/10mm²)

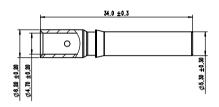
Part number: H4SFC......





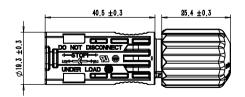
Cold Formed Contact



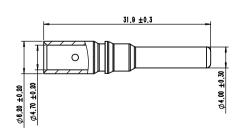


Part number: H4SMC......









Technical Data							
	UL	UL6703 1500V DC	50A /8AWG				
Rated Voltage & Current	TUV	IEC62852 am1 @85°C (Class A) 1500V DC	65A / 10.0mm ²				
Typical Contact Resistance	\leq 0.20m Ω (cold formed contact)						
Rated Impulse Voltage	16KV (1500V per TUV)						
Ambient Temperature Range	-40°C to +85°C						
Upper Limiting Temperature	+120°C						
Ingress Protection Rating	IP68, ma	ted (1 m, 24 h) &IP2X touc	h-proof, unmated				
Type of Termination	Crimp						
Flame Class Flame Class	UL94 V-0						
Overvoltage Category/Pollution Degree	CAT III/2						
Insulation Material	PC/PA						
Contact Material	Tin-plate	d copper alloy					
Cable OD Range	Ø7.5mm′	~8.7mm					
Material Safety	RoHS, RE	ACH compliant					

Ordering No.	Plug	Receptacle	Cable	Size	Contact Type		Certifications		IS
			mm²	AWG	S&F	Cold formed	TUV	UL	TUV
H4SFC8DM		*	10	8		*	*	*	B 107201
H4SMC8DM	*		10	8		*	*	*	E339277

Notes:

Sealing caps on page 41. Assembly tools on page 42~44.

For more information please contact us (Assembly Instructions WI-S067-ENG, Chemical Exposure Checklist WI-S047-ENG).



Amphe-PV H4 Plus™

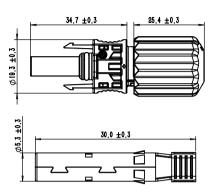
Cable Connectors (Manual Unlock)

Part number: H4SFD......



S&F Contact

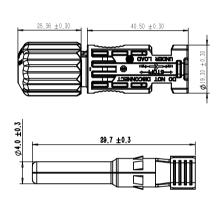




Part number: H4SMD......







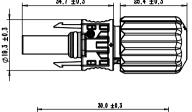
Technical Data						
Rated Voltage & Current	TUV	IEC62852 am1 @85 $^{\circ}$ C (Class A) 1500V DC	25A/2.5mm², 35A/4.0mm², 45A /6.0mm²			
Typical Contact Resistance	$\leq 0.25 m\Omega$ (stamped & formed contact), $\leq 0.20 m\Omega$ (coldformed contact)					
Rated Impulse Voltage	16KV (1500V per TUV)					
Ambient Temperature Range	-40°C to +85°C					
Upper Limiting Temperature	+120°C					
Ingress Protection Rating	IP68, mated (1 m, 24 h) &IP2X touch-proof, unmated					
Type of Termination	Crimp					
Flame Class	UL94V-0					
Overvoltage Category/Pollution Degree	CAT III/2					
Insulation Material	PC/PA					
Contact Material	Tin-plated Copper Alloy					
Cable OD Range	Ø5.0mm~7.8mm					
MaterialSafety	RoHS, REACH compliant					

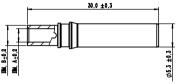
Part number: H4SFD......

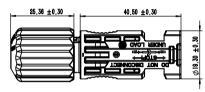
Cold Formed Contact

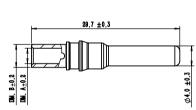


















OrderingNo.	Plug	Receptacle	Cable Size		Contact Type		Certifications		
			mm²	AWG	S&F	Cold formed	TUV	UL	
H4SFD2TMS		*	2.5	14	*		*	*	
H4SMD2TMS	*		2.5	14	*		*	*	
H4SFD4TMS		*	4.0,6.0	12,10	*		*	*	901
H4SMD4TMS	*		4.0,6.0	12,10	*		*	*	SUD
H4SFD2TM		*	2.5	14		*	*	*	B 107201
H4SMD2TM	*		2.5	14		*	*	*	
H4SFD4TM		*	4.0	12		*	*	*	
H4SMD4TM	*		4.0	12		*	*	*	
H4SFD6TM		*	6.0	10		*	*	*	
H4SMD6TM	*		6.0	10		*	*	*	

Notes:

Sealing caps on page 41.
Assembly tools on page 42~44.

For more information please contact us (Assembly Instructions WI-S067-ENG, Chemical Exposure Checklist WI-S047-ENG).



Amphe-PV H4 Plus™

Panel Mounted Connectors

Part number: H4SFM......



S&F Contact

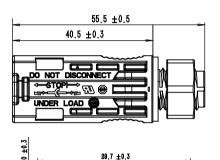


49.7 ±0.5 34.7 ±0.3 30.0 ±0.3

Part number : H4SMM.....







Technical Data						
Rated Voltage & Current	UL	UL6703 1500VDC	15A /14AWG, 20A /12AWG, 30A /10AWG			
	TUV	IEC62852 am1 @85°C (Class A) 1500V DC	25A/2.5mm ² ,35A/4.0mm ² ,45A/6.0mm ²			
Typical Contact Resistance	$\leq 0.25 \text{m}\Omega\text{(stamped\& formed contact)}, \leq 0.20 \text{m}\Omega\text{(cold formed contact)}$					
Rated Impulse Voltage	16KV (1500V per TUV)					
Ambient Temperature Range	-40°C to +85°C					
Upper Limiting Temperature	+120°C					
Ingress Protection Rating	IP68, mated (1 m, 24 h) &IP2X touch-proof, unmated					

Crimp

UL94 V-0

CAT III/2

Tin-plated Copper Alloy

RoHS, REACH compliant

Ø5.0mm~7.8mm

PC/PA

Type of Termination

Insulation Material

Contact Material

Cable OD Range

Material Safety

Overvoltage Category/Pollution Degree

Flame Class

Part number : H4SFM......



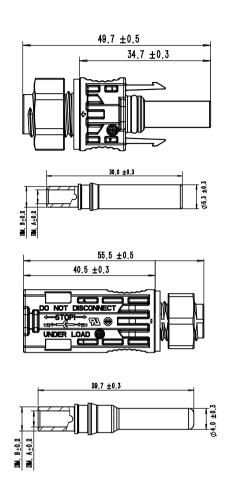
Cold Formed Contact



Part number: H4SMM......







Ordering No.	Plug	Receptacle	Cable Size		Contact Type		Certifications		
			mm²	AWG	S&F	Cold formed	TUV	UL	
H4SFM2DMS		*	2.5	14	*		*	*	
H4SMM2DMS	*		2.5	14	*		*	*	TÜV
H4SFM4DMS		*	4.0,6.0	12,10	*		*	*	SUD No earl sort
H4SMM4DMS	*		4.0,6.0	12,10	*		*	*	B 107201
H4SFM2DM		*	2.5	14		*	*	*	6 8
H4SMM2DM	*		2.5	14		*	*	*	E339277
H4SFM4DM		*	4.0	12		*	*	*	233277
H4SMM4DM	*		4.0	12		*	*	*	
H4SFM6DM		*	6.0	10		*	*	*	
H4SMM6DM	*		6.0	10		*	*	*	

Notes:

Sealing caps on page 41. Assembly tools on page 42~44.

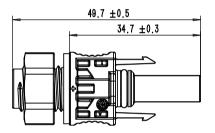
For more information please contact us (Assembly Instructions WI-S067-ENG, Chemical Exposure Checklist WI-S047-ENG).



Amphe-PV H4 Plus™ 8AWG/10mm² Panel Mounted Connectors

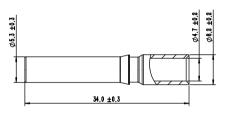
Part number: H4SFM......





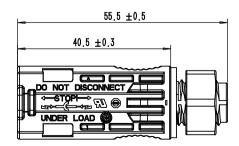
Cold Formed Contact



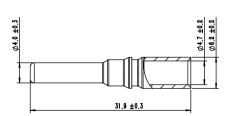


Part number: H4SMM......









Technical Data						
	UL	UL6703 1500VDC	50A /8AWG			
Rated Voltage & Current	TUV	IEC62852 am1 @85°C (Class A) 1500V DC	65A/10.0mm ²			
Typical Contact Resistance	≤0.20mΩ	(coldformed contact)				
Rated Impulse Voltage	16KV (150	00V per TUV)				
Ambient Temperature Range	-40°C to +85°C					
Upper Limiting Temperature	+120°C					
Ingress Protection Rating	IP68, mat	ed (1 m, 24 h) &IP2X touc	h-proof, unmated			
Type of Termination	Crimp					
Flame Class	UL94 V-0					
Overvoltage Category/Pollution Degree	CAT III/2					
Insulation Material	PC/PA					
Contact Material	Tin-plated copper alloy					
Cable OD Range	Ø7.5mm~8.8mm					
Material Safety	RoHS, REACH compliant					

Ordering No.	Plug	Receptacle	Cable Size		Contact Type		Certifications		ns
			mm²	AWG	S&F	Cold formed	TUV	UL	SUD SUD
H4SFM8DM		*	10	8		*	*	*	B 107201
H4SMM8DM	*		10	8		*	*	*	E339277

Notes:

Sealing caps on page 41. Assembly tools on page 42~44.

For more information please contact us (Assembly Instructions WI-S067-ENG, Chemical Exposure Checklist WI-S047-ENG).



Amphe-PV H4 Plus™

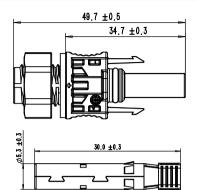
Panel Mounted Connectors (Manual Unlock)

Part number: H4SFB......



S&F Contact

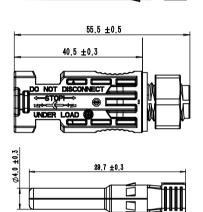




Part number : H4SMB......







Technical Data						
Rated Voltage & Current	TUV	TUV IEC62852 am1 @85°C 25A/2.5mm², 35A/4.0mm², 45A/ (Class A) 1500V DC				
Typical Contact Resistance	≤0.25mΩ	Ω (stamped& formed conta	act), ≤ 0.20 m Ω (coldformed contact)			
Rated Impulse Voltage	16KV (15	00V per TUV)				
Ambient Temperature Range	-40°C to	+85°C				
Upper Limiting Temperature	+120°C					
Ingress Protection Rating	IP68, ma	ted (1 m, 24 h) & IP2X touc	h-proof, unmated			
Type of Termination	Crimp					
Flame Class	UL94 V-0					
Overvoltage Category/Pollution Degree	CAT III/2					
Insulation Material	PC/PA					
Contact Material	Tin-plated copper alloy					
Cable OD Range	Ø5.0mm~7.8mm					
Material Safety	RoHS, REACH compliant					

Part number: H4SFB......

Cold Formed Contact

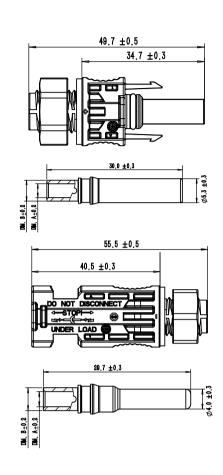




Part number: H4SMB......







Ordering No.	Plug	Receptacle	Cabl	Cable Size		Contact Type		Certifications	
			mm²	AWG	S&F	Cold formed	TUV	UL	
H4SFB2TMS		*	2.5	14	*		*		
H4SMB2TMS	*		2.5	14	*		*		TUV
H4SFB4TMS		*	4.0, 6.0	12,10	*		*		SUD termal contr (pode)
H4SMB4TMS	*		4.0, 6.0	12,10	*		*		B 107201
H4SFB2TM		*	2.5	14		*	*		
H4SMB2TM	*		2.5	14		*	*		
H4SFB4TM		*	4.0	12		*	*		
H4SMB4TM	*		4.0	12		*	*		
H4SFB6TM		*	6.0	10		*	*		
H4SMB6TM	*		6.0	10		*	*		

Notes:

Sealing caps on page 41. Assembly tools on page 42~44.

For more information please contact us (Assembly Instructions WI-S067-ENG, Chemical Exposure Checklist WI-S047-ENG).

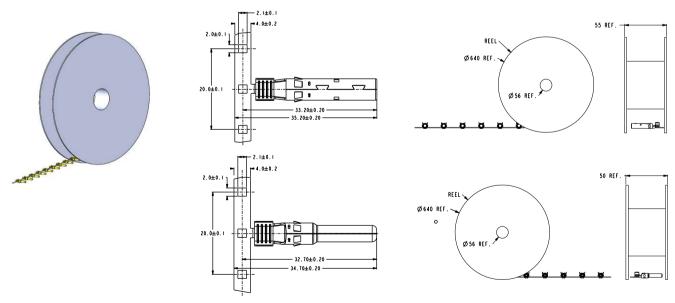


Amphe-PV H4 Plus™ series connectors ordering configurations

How to Order a Connector (please choose one code per position below)																										
1	2		3		4	5		5		5		5		5		5		5		4 5 6 7		5 6		7	8	
Product Line	ProductType		Gender	C	Connector Type	Cable Size		Cable Size		Cable Size		Cable Size		Cable Size		Cable Size		Cable Size		Certifications		Packaging		Contact Type		
				С	Cable gland (tool unlock)	0*1	Without Contact		Dual	l*4	1 pc/bag															
	(+) Cable	F	F Female (+)		(+)	Cable gland (manual unlock)	2 2.5mm²/ 14AWG	D	UL/TUV Certified	C*5	100 pcs/bag	S	S&F													
H4 (H4 series)	S (H4 Plus)						М	M12 Panel mounted	4*2	4.0mm²/12 AWG				,, o												
(TH Series)	(1141143)				(tool unlock)	6	6.0mm²/ 10AWG		TUV IEC																	
		M	Male (-)		M12 Panel	U	o.omm / Toawe	T*3	Certification Only (no NEC	M*6	400	(Blank)	CF													
				В	mounted (manual unlock)	8	10.0mm²/ 8AWG		lock)		pcs/bag															

- *1 If planning to use S&F contacts on a reel (sold separately), please choose cable size code "0" to order just the connector with no contacts.
- *2 When ordering a S&F 'Contact Type", please choose cable size order code "4" for both 4.0mm²/ 12AWG & 6.0mm²/ 10AWG
- *3 When ordering a manual unlock connector, please choose "Certifications" code "T" for TUV certification only.
- *4 Individual packaging, 1pc/PE bag, 800pcs/carton box, for authorized distributors only.
- *5 100pcs/PE bag, 800pcs/carton box, for authorized distributors only.
- *6 When ordering a manual unlock connector, please choose "Certifications" code "T" for TUV certification only.

Amphe-PV H4 Plus[™] stamped and formed contacts for automatic assembly use

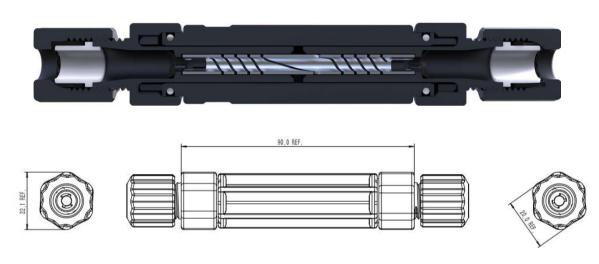


How to Orde	How to Order S&F Contacts on a Reel of 2000 pcs (Please choose one code per position below)							
1	2		3 4 5					
Product Line	ProductType	G	ender		Cable Size	Packaging		
LITY	F	F F Female (+) (S&F CONTACT) M Male (-)		2	2.5mm²/14AWG	R		
UTX	(S&F CONTACT)			4 4.0mm ² /12AWG & 6.0mm ² /10AWG		(2000 pcs/reel)		



RadCrimp™ Solar Splice





Features

- Features Melni Spiral Termination Technology
- Simple and fast termination
- Field termination and sealing without any special crimp tools
- Low resistance wire termination and sealing in one action
- IP68 sealing protection
- Innovative Melni Spiral Termination Technology is low resistance and reliable
- UL certified

RadCrimp™ Solar Splice with Melni Spiral Termination Technology

Technical Data						
Rated Voltage & Current	UL6703 1500V DC	20A(4.0mm2/12AWG), 30A(6.0mm2/10AWG)				
Typical Contact Resistance	$\leq 0.10 \text{m}\Omega$, TYP					
Insulation Material	Thermoplastic (PC/PA))					
Contact Material	Tin over nickel plated copp	er alloy				
Cable Strain Relief	Compression sealing gland featuring cable insulation gripping collet and torque specified sealing cap					
Application Class	Class A					
Over Voltage Category	III					
Degree Protection	IP68 (1 meter, 1 hour) mated	d				
Flame Class	UL94-V0					
Cable OD Range	Ø 6.0mm ~ Ø7.4mm					
Cable Strands Range	2					
Safety Class	Class II					
Ambient Temperature Range	-40°C~+85°C					
Upper Limiting Temperature	120°C					
UV Resistance	Outdoor suitable (f1) rated materials, per UL746C					

How to	Order (Please c	hoos	e one code per p	osit	ion below)		U	
	1	1 2			3		4	
	ProductLine		ProductType	Contact Size			Terminal Type	
AMPV	Amphenol Solar Connector (Amphe-PV)	STS	Melni Spiral Termination	4*	4.0mm²/12 AWG 6.0mm²/10AWG	M Machined Terminal		
	* Contact size "4" works for 4.0mm²/12 AWG & 6.0mm²/10AWG PV wire							



Tools and Accessories	Ordering Code
Strip Tool	H4TS0000
Wrench Tool	AMPVTW0001

Notes:

For more information please contact us (Assembly Instructions WI-13, Chemical Exposure Checklist WI-S047-ENG).

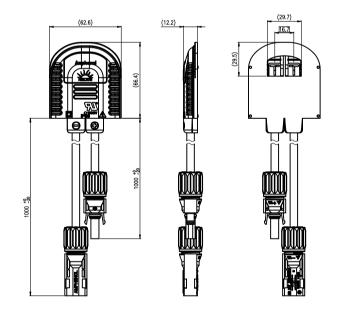
Thin Film PV Junction Box



Features

- Low profile
- Over-molded design for a better sealing SMD and efficient heat dissipation

Technical Data	
Rated Voltage	1000V DC (UL/IEC 62790)
Rated Current	Up to 20A (without Diode), 4A (with Diode)
TerminationType	Solder
Protection Degree	IP68
Operation Temperature	-40°Cto +90°C
Sealing Type	Potting
Flame class	UL945V
Diodequantity option	None/1



How to Order						
Product Family	Product Type	Terminals	Terminal Type	Diode Rating	SealingType	Breathing Hole
HB Junction box	T Thin film J-box	G 2 contacts	B Solder Contacts	G 5A,1000V H 10A,1000V J 8A,1000V K 20A,1200V N Without Diode	A Potting	N No
Cable Size	Adhesive	Cable Length (Ln)*	Cable Length (Lp)*	Variations		
C 2.5mm2/14AWG	Y Yes N No	A 1000mm B 900mm	A 1000mm B 900mm	H H4 connector N No connector		



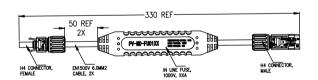
Over-Molded Junction Harnesses

Features

- Short cable to distribute heat
- Long term reliability which ensures consistently low performance loss throughout the entire service life
- IP67 (1m/0.5H)
- 1000V/1500V optional
- Cable/connector optional
- Fuse rating and brand optional
- Approved by IEC/EN62093 and UI9703

In-Line Fuse, 1000V

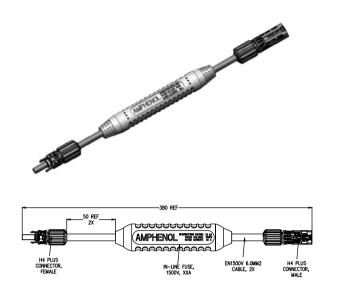




Description	Specification
Cable Size	6.0mm ² /10AWG
Rated Voltage	1000V DC
Rated Current	Same as fuse rating
Ingress Protection	lp67 (mated)
Ambient Temperature Range	-40°C to +50°C
Over-Molding Material	TPV, UL94 V-0
Cable Bending Radius	30mm

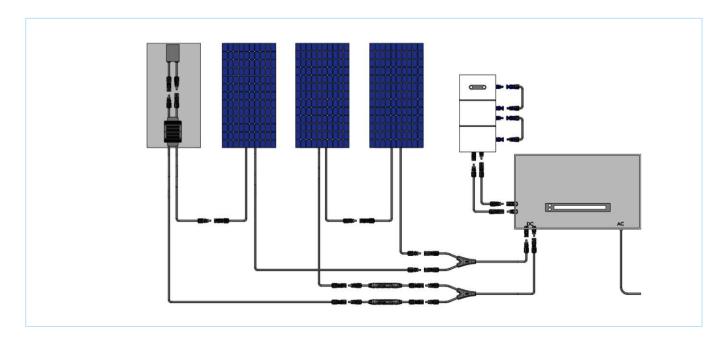
Order No.	Safety (A/V)	Type of Connector	Cable Size	Cable Length (mm)	Certifications
MDFU-10-66-04-H4	4/1000	H4	6.0mm ² /10AWG	50	
MDFU-10-66-10-H4	10/1000	H4	6.0mm ² /10AWG	50	intertek
MDFU-10-66-15-H4	15/1000	H4	6.0mm ² /10AWG	50	Total Quality. Assured.
MDFU-10-66-20-H4	20/1000	H4	6.0mm ² /10AWG	50	IEC/EN 62093 UL9703
MDFU-10-66-25-H4	25/1000	H4	6.0mm²/10AWG	50	3 23 7 00
MDFU-10-66-30-H4	30/1000	H4	6.0mm²/10AWG	50	

In-Line Fuse,1500V



Technical Data	
Cable Size	6.0mm ² /10AWG
Rated Voltage	1500VDC
Rated Current	Same as fuse rating
Ingress Protection	IP67(mated)
Ambient Temperature Range	-40°C to +50°C
Over-Molding Material	TPV, UL 94 V-0
Cable Bending Radius	30mm

Order No.	Safety (A/V)	Type of Connector	Cable Size	Cable Length (mm)	Certifications
MDFU-20-66-04-H4S	4/1500	H4 Plus	6.0mm²/10AWG	50	
MDFU-20-66-10-H4S	10/1500	H4 Plus	6.0mm²/10AWG	50	intertek
MDFU-20-66-15-H4S	15/1500	H4 Plus	6.0mm²/10AWG	50	Total Quality. Assured.
MDFU-20-66-20-H4	20/1500	H4 Plus	6.0mm²/10AWG	50	IEC/EN 62093 UL9703
MDFU-20-66-25-H4	25/1500	H4 Plus	6.0mm²/10AWG	50	013703
MDFU-20-66-30-H4	30/1500	H4 Plus	6.0mm²/10AWG	50	

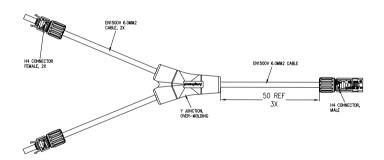


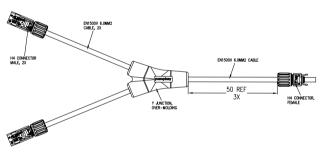


Y Branch Harness



Description	Specification
Cable Size	6.0mm ² /10AWG
Rated Voltage	1000V DC/1500V DC
Rated Current	Input 15A, output 30A
Ingress Protection	IP67(mated)
Ambient Temperature Range	-40°Cto +85°C
Over-Molding Material	TPV, UL 94 V-0
Cable Bending Radius	30mm



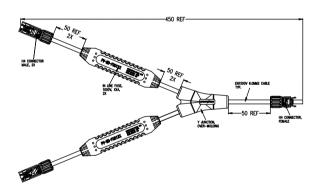


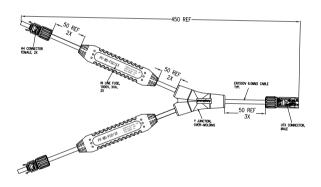
Order No.	Safety(V)	Type of Connector	Cable Size	Cable Length (mm)	Certifications
MDH-10-66-1Y-H4-P	1000	H4	6.0mm ² /10AWG	50	intertek
MDH-10-66-1Y-H4-N	1000	Н4	6.0mm ² /10AWG	50	Total Quality. Assured.
MDH-20-66-1Y-H4S-P	1500	H4 Plus	6.0mm ² /10AWG	50	IEC/EN 62093 UL9703
MDH-20-66-1Y-H4S-N	1500	H4 Plus	6.0mm ² /10AWG	50	013703

Y Branch Harness with In-line Fuse,1000V



Description	Specification
Cable Conductor	6.0mm²/10AWG
Rated Voltage	1000V DC
Rated Current	Same to fuse rating
Degree of Protection	IP67(mated)
Ambient Temperature Range	-40°C to +50°C
Over-molding Material	TPV, UL 94 V-0
Cable Bending Radius	30mm





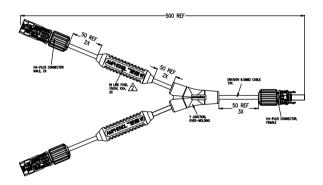
Order No.	Safety (A/V)	Type of Connector	Cable Size	Cable Length (mm)	Certifications
MDH-10-66-1Y04-H4-P	04/1000	H4	6.0mm²/10AWG	50	
MDH-10-66-1Y04-H4-N	04/1000	H4	6.0mm²/10AWG	50	
MDH-10-66-1Y10-H4-P	10/1000	H4	6.0mm²/10AWG	50	intertek
MDH-10-66-1Y10-H4-N	10/1000	H4	6.0mm²/10AWG	50	Total Quality. Assured.
MDH-10-66-1Y15-H4-P	15/1000	H4	6.0mm²/10AWG	50	IEC/EN 62093 UL9703
MDH-10-66-1Y15-H4-N	15/1000	H4	6.0mm²/10AWG	50	
MDH-10-66-1Y20-H4-P	20/1000	H4	6.0mm²/10AWG	50	
MDH-10-66-1Y20-H4-N	20/1000	H4	6.0mm ² /10AWG	50	

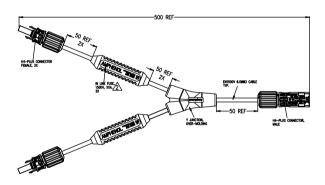


Y Branch Harness with In-Line Fuse,1500V



Description	Specification
Cable Conductor	6.0mm²/10AWG
Rated Voltage	1500V DC
Rated Current	Same as fuse rating
Degree of Protection	IP67(mated)
Ambient Temperature Range	-40°C to +50°C
Over-Molding Material	TPV, UL 94 V-0
Cable Bending Radius	30mm

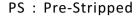




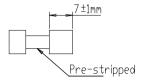
Order No.	Safety (A/V)	Type of Connector	Cable Size	Cable Length (mm)	Certifications
MDH-20-66-1Y04-H4S-P	04/1500	H4 Plus	6.0mm²/10AWG	50	
MDH-20-66-1Y04-H4S-N	04/1500	H4 Plus	6.0mm²/10AWG	50	
MDH-20-66-1Y10-H4S-P	10/1500	H4 Plus	6.0mm ² /10AWG	50	intertek
MDH-20-66-1Y10-H4S-N	10/1500	H4 Plus	6.0mm²/10AWG	50	Total Quality. Assured.
MDH-20-66-1Y15-H4S-P	15/1500	H4 Plus	6.0mm ² /10AWG	50	IEC/EN 62093 UL9703
MDH-20-66-1Y15-H4S-N	15/1500	H4 Plus	6.0mm ² /10AWG	50	
MDH-20-66-1Y20-H4S-P	20/1500	H4 Plus	6.0mm²/10AWG	50	
MDH-20-66-1Y20-H4S-N	20/1500	H4 Plus	6.0mm²/10AWG	50	

PV Cable Assemblies

End Types:







R: Ring Terminal



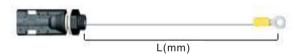


IR: Isolated Ring Terminal



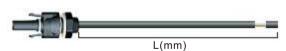


T: Tube Terminal





IT: Isolated Ring Terminal

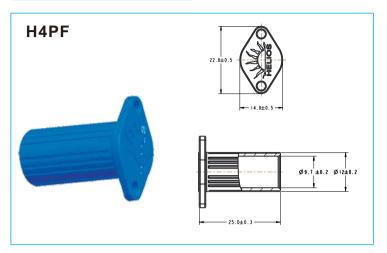


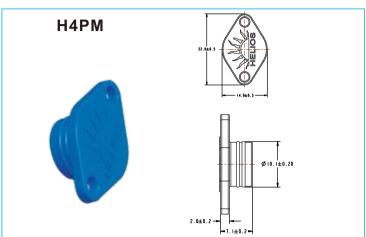


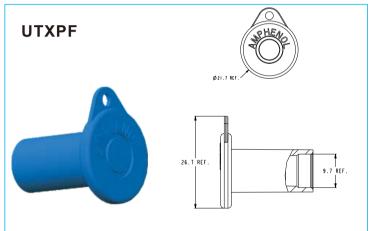
Other terminals and customized strip lengths are available. Please contact us for details and additional variations.

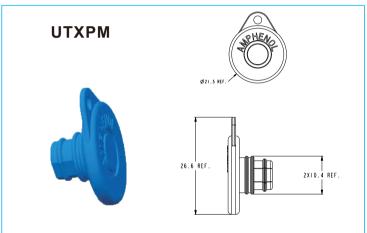


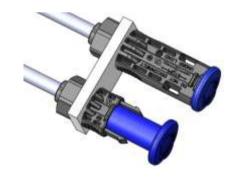
Sealing Caps











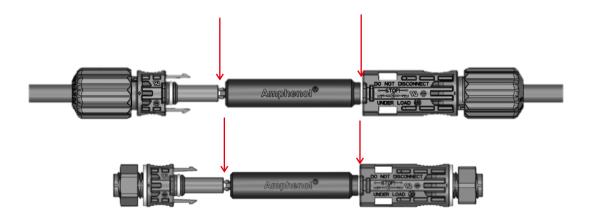
Ordering Code	Suitable for Plug Side	Suitable for Socket Side	Material	Suitablefor
H4PF		*	Plastic	H4, H4 Plus
H4PM	*		Plastic	H4, H4 Plus
UTXPF		*	Silicon rubber	H4, H4 Plus
UTXPM	*		Silicon rubber	H4, H4 Plus

Inspection Tools



Order No.	Suitable for
H4TT0001	H4
H4TT0002	H4 Plus
H4TT0003	H4 Plus 8AWG

- This inspection tool is for testing the H4 and H4 Plus contacts' insertion depth, to control the correct and proper engagement of the contacts in the insulation.
- Use the contact depth inspection tool to check if the contact is in the right position. The edge of the connector housing should be located within the white area of the contact depth inspection tool.





Crimp Tools



- > Customized design by Rennsteig for H4/H4 Plus connectors.
- High quality and long -term reliability, suitable for processing a high number of crimps.
- Applicable to cable sizes of 2.5mm²/14AWG, 4.0mm²/12 AWG, 6.0mm²/10AWG, 10.0mm²/8AWG.
- > The die sets and locators are interchangeable.
- For flexible cables use only.

Ordering Code	Crimp Range		Suitable for Type of Terminals			
	mm²	AWG	H4 S&F	H4 CF	H4+ S&F	H4+ CF
H4TC0003	2.5, 4,6	14,12,10	*			
UTXTC0003	2.5,4,6	14,12,10			*	
UTXTC0004	4,6,10	12,10,8		*		*
UTXTC0005	2.5,4,6	14,12,10		*		*

Individual Parts for Crimp Tools

▶ Die Sets





UTXTD0003

UTXTD0004



UTXTD0005

Ordering Code	Crimp Range		Suitable for Type of Terminals			
	mm²	AWG	H4 S&F	H4 CF	H4+ S&F	H4+ CF
UTXTD0003	2.5, 4,6	14,12,10	*		*	
UTXTD0004	2.5,4,6	14,12,10		*		*
UTXTD0005	4,6,10	12,10,8		*		*

▶ Locators





H4TP0002

UTXTP0002





UTXTP0003

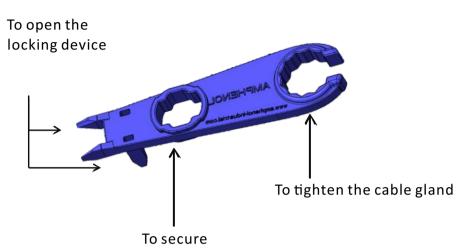
UTXTP0004

Ordering Code	Crimp Range		Suitable for Type of Terminals				
	mm²	AWG	H4 S&F	H4 CF	H4+ S&F	H4+ CF	
H4TP0002	2.5, 4,6	14,12,10	*				
UTXTP002	2.5,4,6	14,12,10			*		
UTXTP0003	2.5,4,6	14,12,10		*		*	
UTXTP0004	4,6,10	12,10,8		*		*	

Tools and Accessories

Open-Ended Spanner and Unlocking Tool

To tighten and unscrew the cable gland and to open the locking device of the connection.



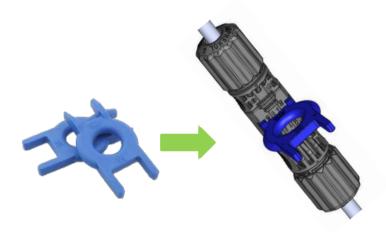


Ordering Code: H4TW0001, for H4, H4 Plus



Order number: H4TS0000

Designed with a locator to set a certain stripped cable length, guarantees a consistent strip of PV cable, this strip tool is suitable for Cable OD range of 14AWG to 10AWG, properly suited for solar connector assembly.



Order number: H4TU0000

This universal unlocking tool is used to unlock mated connectors, compatible with all Amphenol H4 series and H4 Plus series connectors.







■ General Information

Users wishing to employ products listed in the catalog for applications we have not considered are themselves responsible for making certain that the products comply. This means assuring the products conform with the needed standards of the customer application.

Changes/Provisos

All data, illustrations and drawings in the catalog have been carefully checked. They are in accordance with our experience to date, but no responsibility can be accepted for errors. We also reserve the right to make modifications for design and safety reasons. When designing equipment incorporating our components, it is therefore advisable not to rely solely on the data in this catalog but to consult us to make sure this information is up to date. We would be pleased to advise you.

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The use of this catalog for any other purpose, in whatever form, without our prior written consent is not permitted.

■ Technology Information

Crimped Terminations

For termination of the conductors to the crimping sleeves of the PV plug connectors we recommend using the stated crimping tools. For certified products only the tools mentioned can be used for self-assembly according to the assembly instructions. The crimping sleeves are designed for highly flexible conductors of the stated cable size ranges. The use of flexible conductors is possible. It is advantageous to use tinned conductors.

Laying Conditions

When laying the PV leads, avoid having the connecting cable resting on a sharp edge at the exit from the PV connector. We recommend observing the minimum bending radius of the connecting cables.



Cables

Suitable for PV cable with cooper conductor. Tin coated wire of conductors is recommended. Cables should be EN 50618, IEC62930, UL 4703 and USE-2 certified.

Max. system voltage

Is the maximum voltage for which the components of the PV plug connector system may be used and are rated in accordance with IEC 60664-1.

Contact resistance

Is the resistance at the point of contact between two contact surfaces.

Test voltage

is the voltage at which the new components of the PV plug connector system are tested under defined conditions without breakdown or arcing.

■ Safety Precaution

Unplugging under load

PV plug connections must not be unplugged while under load. Plugging and unplugging while under tension is permitted.

Protection against weather

Sealing caps must be used to protect unplugged PV-connectors from moisture and dirt.

The mated Amphenol PV connectors are IP68 (under water 1 meter 1 hour) compliant in the function of sealing. However please prevent connectors from being immersed in water.

The product may be assembled and installed only by qualified and trained specialists who observe the applicable safety regulations.





@ Appendix

■ Safety Precaution

Connectors not made by Amphenol which can be mated with Amphenol elements and in some cases are also described as "Amphenol-compatible" do not conform to the requirements for safe electrical connection with long-term stability, and for safety reasons must not be plugged together with Amphenol elements. Amphenol can therefore accept no liability for damage which occurs as a result of mating these connectors that lack Amphenol approval with Amphenol elements.

Please be aware that this 3rd Party laboratory test is just a reference for application. It is the customer's responsibility to validate connector durability in system function at specific and extreme environment conditions, we recommend customers to consider a margin in actual applications with high current situations that can lead to overheating.

Avoid exposure of chemical substances

Amphenol warns customers and users to avoid exposure of chemical substances in the connector application environment. Chemical compatibility of thermoplastics e.g. Lexan polycarbonate is dependent on contact time, temperature concentration and stress (external stress to which the application is subjected to). Chemicals exposure can result in discoloration, softening, swelling, cracking or loss of properties of the thermoplastics. See file: WI -SO47-ENG Chemicals exposure check list.

The list of chemicals provided by Amphenol does not include all chemicals that may appear in the production and subsequent use of customers. Customers are requested to verify their impact on products and take corresponding risk management measures for chemical contamination. Amphenol does not accept any return requests for products contaminated with chemicals.

Amphenol Industrial

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