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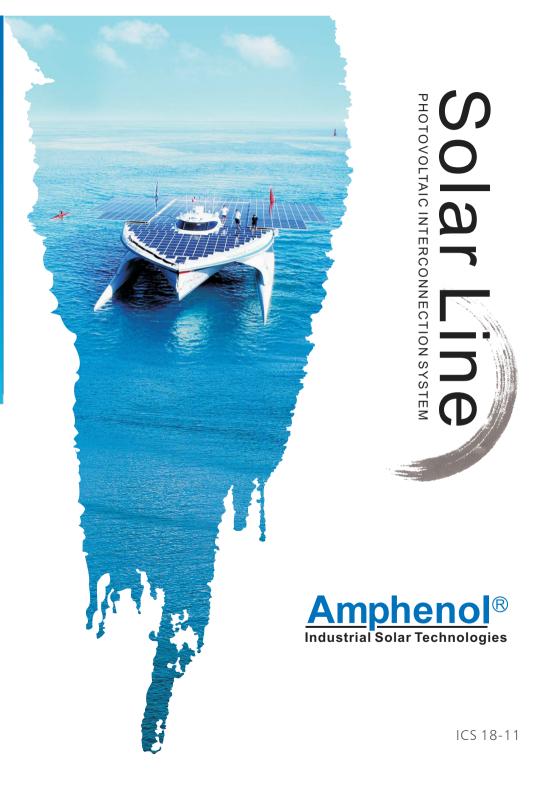
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xpanding Global Presence

Founded in 1932, Amphenol is a global leader in interconnect technology, and is one of the world's largest connector manufacturers. Amphenol designs, manufactures, and markets solar products, electronic, and fiber optic connectors, interconnect systems, and coaxial and specialty cables.

Amphenol products are engineered and manufactured in the Americas, Europe, Asia, and Africa and sold by a worldwide sales and marketing organization. Amphenol has a diversified presence as a leader in high growth areas of the interconnect industry and provides solutions for customers in the automotive, broadband, industrial, information technology and data communications, military and aerospace, mobile devices, and mobile networks markets.

please click the hyperlink www.amphenol.com/about get more information.

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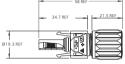


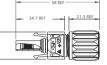


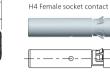
H4 PV Cable Connector

H4 Female PV Cable Connector



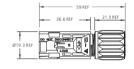


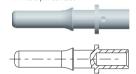




H4 Male pin contact













How to or	der						
Product family H4 Helios H4	Product	Gender F Female M Male	Connector type C Cable gland	Cable size 2 2.5mm/14 AWG 4 4.0mm/12 AWG86.0mm/10 AWG (S8F) 4.0mm/12 AWG (C8F) 6 6.0mm/10 AWG (C8F) 8 10.0mm/98 AWG (C8F) 0 Less contacts	Approvals D Dual (TUV/ UL)	Connector packaging I 1pcs/bag, 800pcs/box C 100pcs/bag, 10bags/box M 500 pcs/ bag, 2bags/box	Contact* S S&l Blank C&
Technical	Data						
Rated volt	ulse voltage sistance aterial stem	-,	25A(2.5mm²/14AWG), 35A(4.0mm²/12AWG) 45A(6.0mm²/10AWG) 1000V DC (TUV) 1500V DC (UL) 12KV(IEC) $\leqslant 0.30$ m Ω for S&F contact, $\leqslant 0.25$ m Ω for C&F contact Copper, tin plated Stamped and Formed / Cold Formed contact with RAP PC/PA				
Locking m Cable strai Degree of Safety clas Pollution o	in relief protection s			special unlocking tool required t in gland with ratcheting gland n 1h) mated		required by NEC2011	

Ordering example:

01 www.amphenol-solar.com

Jacket of cable range

Ambient temperature range

Flame class

■ H4CFC4DMS H4 cable connector, female , 4.0mm²/12AWG & 6.0 mm²/10AWG S&F contact, 1000pcs per box ■ H4CFC4DM H4 cable connector, female , 4.0mm²/12AWG C&F contact, 1000pcs per box

Ø4.5mm~Ø7.8mm

-40°C~+85°C

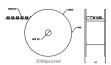
UL94 V-0

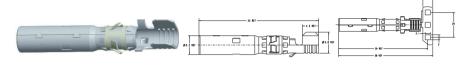
* Stamped and Formed (S&F) and Cold Formed (C&F) contact options

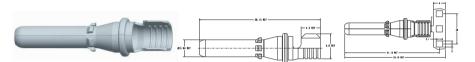
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H4 Stamped and Formed Contact

Packaged on a reel for automatic assembly













H4 S&F Contact Ordering Code (For Ordering Contacts on Reels) Product family Contact type Gender Cable size Packing								
i roduce rairing	contact type	Geridei	Cable Size	racking				
H4 Helios H4	F S&F contact	F Female	2 1.5mm²/16AWG &2.5mm²/14AWG	R 2000/reel				
		M Male	4 4.0mm²/12AWG & 6.0mm²/10AWG					
Note: If ordering contacts in 2000pcs/reel version, need to order contact and plastic housing seperately. Contact ordering code refers to this								

Ordering Example:

■ H4CFC0DM: H4 Female housing assembly ■ H4CMC0DM: H4 Male housing assembly (1pcs)

■ H4FF4R H4 female contact on reel, 4.0mm²/12 AWG & 6.0mm²/10 AWG (2000pcs) ■ H4FM2R H4 male contact on reel, 2.5mm²/14 AWG (2000pcs)

Assembly Tool



= Tool-kit H4TK0000





■ Unlock tool H4TU0000 ■ Wrench tool H4TW0001 ■ Strip tool H4TS0000









■ More tools refer to page 29-33.

www,amphenol-solar,com 02

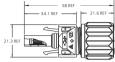


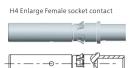
Enlarge H4 PV Cable Connector

Enlarge H4 Female Cable Connector

Enlarge H4 Male Cable Connector

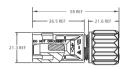


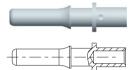




H4 Enlarge Male pin contact













Contact size and system Insulation material Degree of protection Safety class Pollution degree Flame class Jacket of cable range Ø7.6mm~Ø 9.3mm

10.0mm²/8AWG, Cold formed Ip68 (1m, 1h) mated UL94. V-0

Ordering example:

Ambient temperature range

■ H4CFE8DM Enlarge H4 cable connector, female , 10.0mm²/8AWG C&F contact, 800pcs per box

-40°C~+85°C

■ H4CME8DM Enlarge H4 cable connector, male , 10.0mm²/8AWG C&F contact, 800pcs per box

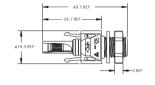




H4 PV Panel Connector

H4 Female PV Panel Connector

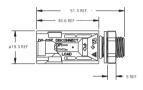


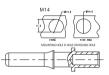




H4 Male PV Panel Connector











How to order											
Product family	Product	Gender	Connector type	Cable size	Approvals	Connector packaging	Cont	act*			
H4 Helios H4	C Connector	F Female M Male	M bulkhead M12 N bulkhead M14	2 2.5mm ² /14 AWG 4 4.0mm ² /12 AWG86.0mm ² /10 AWG (S&F) 4.0mm ² /12 AWG (C&F) 6 6.0mm ² /10 AWG (C&F) 8 10.0mm ² /8 AWG (C&F) 0 Less contacts	D Dual (TUV/UL)	I 1pcs/bag, 800pcs/box C 100pcs/bag, 10bags/box M 500 pcs/ bag, 2bags/box	S Blank	S&F C&F			

Technical Data

25A(2.5mm²/14AWG), 35A(4.0mm²/12AWG) Rated current (IEC 85°C) 45A(6.0mm²/10AWG) 1500V DC (TUV) 1500V DC (UL) Rated voltage Rated impulse voltage Contact resistance \leq 0.30m Ω for S&F contact, \leq 0.25m Ω for C&F contact, TYP Contact material Copper, tin plated Stamped and Formed / Cold Formed contact with RADSOK® insert Contact system Insulation material PC/PA

Degree of protection IP68 (1 meter, 1 hour) mated Safety class

2

Flame class UL94 V-0 Jacket of cable range Ø4.5mm~Ø7.8mm Ambient temperature range -40°C~+85°C

Ordering example:

Pollution degree

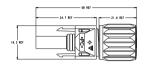
- H4CFM4DMS H4 bulkhead M12 connector, female , 4.0mm²/12AWG & 6.0 mm²/10AWG S&F contact, 1000pcs per box
- H4CFM4DM H4 bulkhead M12 connector, female , 4.0mm²/12AWG C&F contact, 1000pcs per box
- * Stamped and Formed (S&F) and Cold Formed (C&F) contact options
- * If ordering contacts in 2000pcs/reel version, please refer to page 02.

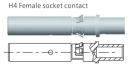


H4-H PV Cable Connector

H4-H Female PV Cable Connector

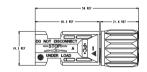


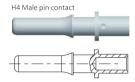




H4-H Male PV Cable Connector









How to order									
Product family	Product	Gender	Connector type	Cable size	Approvals	Connector packaging	Contact ³	*	
H4 Helios H4	C Connector	F Female M Male	D Manually cable connector	2 2.5mm² 4 4.0mm²/6.0mm² (S&F) 4.0mm² (C&F) 6 6.0mm² (C&F) 8 10.0mm² (C&F) 0 Less contacts	T TUV	I 1pcs/bag, 800pcs/box C 100pcs/bag, 10bags/box M 500 pcs/ bag, 2bags/box			

Technical Data

Rated voltage

Rated current (IEC)

25A(2.5mm²/14AWG),35A(4.0mm²/12AWG),

45A(6.0mm²/10AWG)

1000V DC

 \leq 0.30m Ω for S&F contact, \leq 0.25m Ω for C&F contact, TYP Contact resistance

Contact material Copper, tin plated

Contact system Stamped and Formed / Cold Formed contact

Insulation material Thermoplastic

Degree of protection IP68 (1 meter, 1 hour) mated

Flame class UL94 V-0

Jacket of cable range Ø4.5mm~Ø7.8mm Ambient temperature range -40°C~+85°C

Ordering example:

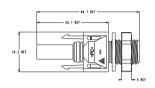
- H4CFD4TMS H4-H manually cable connector, female , 4.0mm²/12AWG & 6.0 mm²/10AWG S&F contact, 1000pcs per box
- H4CFD4TM H4-H manually cable connector, female , 4.0mm²/12AWG C&F contact, 1000pcs per box
- * Stamped and Formed (S&F) and Cold Formed (C&F) contact options
- * If ordering contacts in 2000pcs/reel version, please refer to page 02.

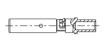
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H4-H PV Panel Connector

H4-H Female PV Panel Connector

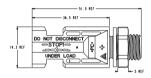


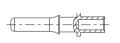




H4-H Male PV Panel Connector









How to order									
Product family Pr	roduct	Gender	Connector type	Cable size	Approvals	Connector packaging	Contact*		
H4 Helios H4 C	Connector	F Female M Male	B Manually bulkhead connector	2 2.5mm² 4.40mm²/6.0mm² (S&F) 4.0mm² (C&F) 6 6.0mm² (C&F) 8 10.0mm² (C&F) 0 Less contacts	T TUV	I 1pcs/bag, 800pcs/box C 100pcs/bag, 10bags/box M 500 pcs/ bag, 2bags/box	S S&F Blank C&F		

Technical Data

25A(2.5mm²/14AWG),35A(4.0mm²/12AWG), Rated current (IEC)

45A(6.0mm²/10AWG)

Rated voltage 1500V DC

Contact resistance \leq 0.30 m Ω for S&F contact, \leq 0.25 m Ω for C&F contact, TYP

Contact material Copper, tin plated

Contact system Stamped and Formed / Cold Formed contact

Insulation material Thermoplastic

Degree of protection IP68 (1 meter, 1 hour) mated

Flame class UL94 V-0

Jacket of cable range Ø4.5mm~Ø7.8mm Ambient temperature range -40°C~+85°C

Ordering example:

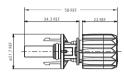
- H4-H manually bulkhead connector, female , 4.0mm²/12AWG & 6.0 mm²/10AWG S&F contact, 1000pcs per box
- H4-H manually bulkhead connector, female, 4.0mm²/12AWG C&F contact, 1000pcs per box
- * Stamped and Formed (S&F) and Cold Formed (C&F) contact options
- * If ordering contacts in 2000pcs/reel version, please refer to page 02.



UTX[™] PV Cable Connector

UTX[™] Female Cable Connector

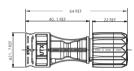


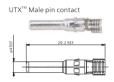




UTX[™] Male Cable Connector















How to order			
Product family	Product Type	Gender	Contact type*
UTX UTX	C Connector	F Female	A Stamped and Formed Contact (S&F)
		M Male	B Cold Formed Contact (C&F)
Cable Size	Approvals	Packaging	
2 2.5mm ² /14 AWG	A TÜV/UL/JET Certified	C 100 pcs/bag ,8	bags/box
4 4.0mm²/12 AWG&6.0mm²/10 AWG (S&F) 4.0mm²/12 AWG (C&F)		M 400 pcs/bag ,2	bags/box
6 6.0mm²/10 AWG (C&F)			
0 Less contacts			

Technical Data

Rated voltage

Contact system

Contact resistance

Rated current (IEC85°C) 25A(2.5mm²/14AWG), 35A(4.0mm²/12AWG)

45A(6.0mm²/10AWG)

1500V DC(TUV/UL/JET)

 \leq 0.30m Ω for S&F contact, \leq 0.25m Ω for C&F contact, TYP

Contact material Copper, tin plated

Stamped and Formed / Cold Formed contact

Insulation material Thermoplastic Degree of protection

Ip68 (1m, 1h) mated Flame class UL94, V-0

Ø5.3mm~Ø7.65mm

Jacket of cable range Ambient temperature range -40°C~+85°C

Ordering example:

■ UTXCFA4AM UTX cable connector, female , 4.0mm²/12AWG & 6.0 mm²/10AWG S&F contact, 800pcs per box

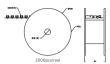
■ UTXCFB4AM UTX cable connector, female , 4.0mm²/12AWG C&F contact, 800pcs per box

* Stamped and Formed (S&F) and Cold Formed (C&F) contact options

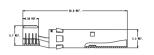
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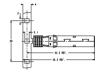
UTX Stamped and Formed Contact

Packaged on a reel for automatic assembly

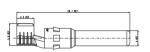
























UTX S&F Contact Ordering (Code (For Ordering	Contacts on Reels)

on sar contact ordening code (ror ordening contacts on keels)									
Product family	Product type	Gender	Contact size*	Packaging					
UTX UTX	F S&F Contact	F Female M Male	2 2.5mm²/14AWG 4 4.0mm²/12AWG&6.0mm²/10AWG	R 2000 pcs/reel					

Note: If ordering contacts in 2000pcs/reel version, need to order contact and plastic housing seperately. Contact ordering code refers to this table, plastic housing should be chosen as UTXCFA0AM for female housing and UTXCMA0AM for male housing.

Ordering Example:

■ UTXCFA0AM: UTX Female housing assembly (1pcs) ■ UTXCMA0AM: UTX Male housing assembly (1pcs)

UTX female contact on reel, 4.0mm²/12 AWG & 6.0mm²/10 AWG ■ UTXFM2R UTX male contact on reel, 2.5 mm²/14 AWG (2000pcs)

Assembly Tool













- Tool-kit H4TK0000

= Unlock tool H4TU0000 = Wrench tool UTXTWA001 = Strip tool H4TS0000

Crimp tool for C&F contact UTXTC0001

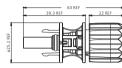
■ More tools refer to page 29-33.



UTX[™]-XL PV Cable Connector

UTX[™]-XL Female Cable Connector



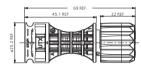






UTX™-XL Male Cable Connector













How to order									
Produ UTX		Product Type C Connector		Contact type L UTX-XL	Cable size 8 10.0mm ² /8AWG	Approvals A DUAL(TUV&UL)	Packaging M 250 pcs/bag ,2 bags/box		
			M Male						

Technical Data

Rated current Rated voltage Contact resistance Degree of protection Contact material Contact size and Type Insulation material Flame class Jacket of cable range

Ambient temperature range

75A(EN85°C), 50A(UL) 1500V DC ≤0.25mΩ,TYP Ip68 (1m, 1h) mated

Copper, tin plated

10mm²/8AWG,Cold formed contact

Thermoplastic UL94 . V-0

Ø7.6mm-Ø9.3mm

-40°C~+85°C

Ordering example:

UTXCFL8AM:UTX-XL cable connector, Female end ,10.0mm²/8AWG C&F contact, 500pcs per box UTXCML8AM:UTX-XL cable connector, Male end ,10.0mm²/8AWG C&F contact, 500pcs per box



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UTX[™] PV Panel Connector

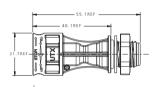
UTX Female Panel Connector





UTX Male Panel Connector









How to order								
Product family Product UTX UTX M Bulkhead M12 N Bulkhead M14		Gender F Female M Male	Contact type * A Stamped and Formed Contact (S&F) B Cold Formed Contact((C&F)					
Cable Size* 2 2.5mm²/14 AWG 4 4.0mm²/12 AWG & 6.0mm²/10 AWG (S&F) 4.0mm²/12 AWG (C&F) 6 6.0mm²/12 AWG (C&F) 0 Less contacts		Approvals A TÜV/UL Certified	Packaging I 1pcs/bag, 800pcs/box C 100 pcs/bag, 8 bags/box M 400 pcs/bag, 2 bags/box					

Technical Data

25A (2.5mm² /14AWG) , 35A (4.0mm²/ 12AWG) Rated current (IEC) 45A (6.0mm²/10AWG) 1500V DC (TUV/UL) Rated voltage $\leq 0.30 \text{ m} \Omega$ for S&F contact, $\leq 0.25 \text{ m} \Omega$ for C&F contact, TYP Contact resistance Copper, tin plated Contact material Stamped and Formed / Cold Formed contact Contact system Thermoplastic Insulation material Degree of protection IP68 2.5mm²~6.0mm² Cable applicability UL94, V-0 Flame class -40°C~+85°C Ambient temperature range

Ordering example:

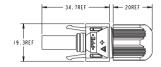
- UTXMFA4AM UTX M12 bulkhead, female, 4.0mm²/12AWG & 6.0 mm²/10AWG S&F contact, 800pcs per box
- UTXMFB4AM UTX M12 bulkhead, female , 4.0mm²/12AWG C&F contact, 800pcs per box
- * Stamped and Formed (S&F) and Cold Formed (C&F) contact options
- * If ordering contacts in 2000pcs/reel version, please refer to page 08.



H4-R PV Connector

H4-R Female Cable Connector

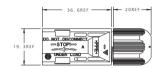






H4-R Male Cable Connector

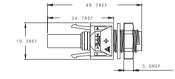






H4-R Female Panel Connector

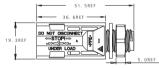


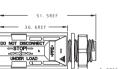




H4-R Male Panel Connector









How to order			
Product family H4 H4	Product type L H4-R connector	Gender F Female M Male	Connector type C Cable connector_H4-R M Bulkhead M12_H4-R B Bulkhead M12_H4-RH D Cable connector_H4-RH
Cable size 2 2.5 mm ² 4 4.0 mm ² &6.0 mm ²	Approvals T TUV	Packaging C 100pcs/bag, 10bags/box M 500pcs/bag, 2bags/box	Contact* S S&F contact

Ordering example:

■ H4LFC4TMS H4-R type, female cable connector, 4mm² &6mm² S&F contact, 1000pcs per box ■ H4LFM4TMS H4-R type, female panel connector, 4mm² &6mm² S&F contact, 1000pcs per box ■ H4LFD4TMS H4-RH type, female cable connector, 4mm² &6mm² S&F contact, 1000pcs per box ■ H4LFB4TMS H4-RH type, female panel connector, 4mm² &6mm² S&F contact, 1000pcs per box

* If ordering contacts in 2000pcs/reel version, please refer to page 02.

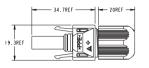
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H4-RH PV Connector

H4-RH Female Cable Connector

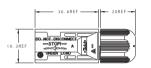






H4-RH Male Cable Connector

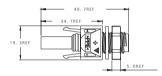






H4-RH Female Panel Connector

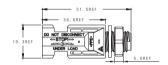






H4-RH Male Panel Connector







Technical Data

Rated current (IEC85°C) Rated voltage Contact resistance Contact material Contact system Insulation material Degree of protection Cable applicability Flame class Jacket of cable range

Ambient temperature range

25A for 2.5mm², 35A for 4.0mm², 45A for 6.0mm² 1100V DC (TUV) ≤0.3mΩ, TYP Copper.tin plated

Stamped formed contact Thermoplastic IP68 (1m, 1h) mated 2.5mm²~6.0mm² UL94, V-0 Ø5.94mm~Ø6.97mm -40°C~+85°C

Assembly Tool













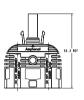
Tool-kit H4TK0000

:: Crimp tool H4TC0002



H4 Branch Connector

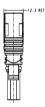
















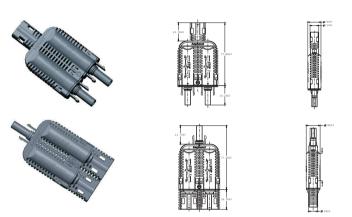
How to order		
Product family	Product type	Gender
H4 Helios H4	Y Branch connector	X FFM (branch 2 female/1 male)
		Y MMF (branch 2 male/1 female)

Technical Data Rated current Rated voltage 1000V DC(UL) 1500V DC(ETL) Contact resistance 0.50mΩ TYP Contact material Insulation material Degree of protection(mated) Ambient temperature range -40°C ~+90°C





Branch Fuse Connector



How to order					
Product family H4 Helios H4	Product Y Branch connector	Gender FFM Branch 2 female/1 male MMF Branch 2 male/1 female			
Fuse range A 16A~30A B 1~15A fuse	Fuse current (1~30A) 01 1A 15 15A	Variations A Unlock type			
5 T TOMISSE					

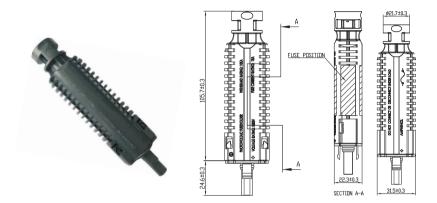
Technical Data	
Rated current of fuse Rated voltage Contact resistance Degree of protection Number of fuse Contact material Insulation material Ambient temperature range	1A~30A 1000V 12mΩ Typ IP68 (1m, 1h) mated 2 Copper, Tin plated Thermoplastic -40°C~+85°C

Ordering example:

■ H4YFFMB15A 1000V branch fuse connector, 2female/1male, 15A



1500V Inline Fuse Connector





	Product family UTX UTX	Product G Assembled fuse	Connector Ty FM Female t		Fuse Voltage 3 1500V	Fuse Current rating 01 1A 15 15A
	Technical Data					
	Rated voltage Rated current of fuse			1500V DC 1A to 15A		
	Protection degree(ma	ated)		IP68		
	Number of fuse			1		
	Replaceable of use		No			
	Contact material		Copper, Tin plated			
Insulation material			Thermonlastic	- III 94 V-0		

-40°C~+85°C

Ordering example:

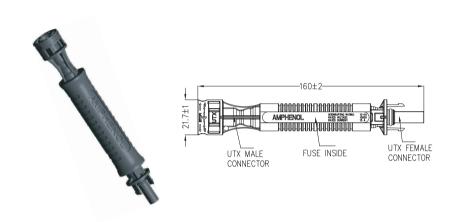
Ambient temperature range

How to order

■ UTXGFM315 1500V UTX Inline fuse connector, 15A current



1000V Inline Fuse Connector



How to order				
Product family	Product	Connector Type	Fuse Voltage	Fuse Current rating 01 1A 15 15A 30 up to 30A
UTX UTX type	F Molded fuse	FM Female to Male	2 1000V	

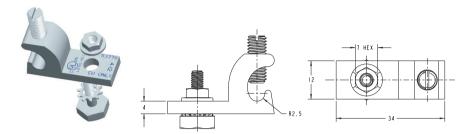
Technical Data	
Interrupting rating Voltage rating Amperage rating Connector options Degree of protection(mated) Cable range Ambient temperature range	10KA 1000V max 30A max M-F IP68 2.5mm²/14AWG∼10.0mm²/8AWG -40°C∼+90°C

Ordering example:

■ UTXFFM215 1000V UTX Inline fuse connector, 15A current



HelioLug



INSTALLATION INSTRUCTIONS:

- Place the lug to the designated module grounding hole with the star washer between the grounding lug and the module frame in order to break through the anodizing and establish electrical contact with the aluminum. Torque the bolt and nut to 30 in-lbs. NOTE: These instructions provide guidelines for general use. If available, the specific module manufacturer's instructions for the location of the star washer are to be followed.
- For the attachment to the racking, slide the bolt into the mounting channel of the extrusion or into a "Hole drilled through the extrusion. Place the star washer between the racking and lug and secure the nut and bolt to 30 in-lbs. NOTE:
- Insert a 4 to 12 AWG copper wire into the lug and tighten the lug set screw to the copper wire to the torque based on the wire size. (4-6 AWG at 35 in-lbs and 8-12 AWG at 30 in-lbs). Do not exceed the maximum rated overcurrent protection, 20 A (12 AWG), 40 A (10 AWG), 90 A (8 AWG), 150 A (6 AWG), and 200 A (4 AWG).

Certified to UL2703 and cUL QIMS7 for Photovoltaic Bonding

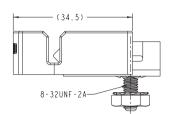


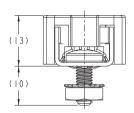
How to order					
	Product Family	Туре	Approvals		
	HG Helios Grounding	L HelioLug (4~12AWG copper wire)	U UL 2703		



Helio Clip™







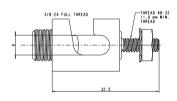
Designed for UL2703 - PV Racking and Grounding

How to order					
Product family	Туре	Approvals			
HG Helios Grounding	C HelioClip Selftapping (10~12AWG copper wire) D HelioClip Mounting (10~12AWG copper wire)	U UL 2703 (Pending)			

Helio Bolt[™]









Certified to UL2703 - PV Racking and Grounding



How to order					
Product family	Туре	Approvals			
HG Helios Grounding	M HelioBolt Mounting (6~12AWG copper wire)	U UL 2703			

^{-100%} Passivated Stainless Steel



PowerLink solar cable

Halogen free photovoltaic cables are used as the interconnection wiring for photovoltaic power systems.

Features:

Flexibility at low temperature
Thermoset-insulated conductor
Thermoplastic jacket
Long-term insulation resistance to moisture
Anti-termite
Range from 1.5mm² to 16.0mm²







Certificate:

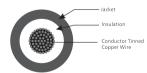
EN50618, 1500V TÜV 2 PfG 1169/08.2007 PV1-F TÜV 2 PfG 1990/05.2012 PV 1500 DC-F UL 4703 PV wire, cTÜVus

UL 4703 PV WITE, CTUVUS

UL 4703 PV wire, 600V, 1000V, 2000V

Structure:

Conductor: Stranded bare or tinned copper Insulation: XLPE material (white and black) Jacket: XLPE material (Black, Red and Blue)



Temperature range: $-40 \,^{\circ}\text{C}$ to $+90 \,^{\circ}\text{C}$

Environmental influence resistance: Acid, alkalinity, UV, ozone and

hydrolysis-resistant.





PowerLink solar cable application:

Used in heavy-duty and harsh environment interconnection wiring, can be easily combined with our Helios H4 PV connectorand junction box series for photovoltaic system applications.







Snow Low temperature

Sun Drought High tmeperature

Rain Moisture

Product family HC Helios cable	Product P Powerlink-standard A Armorlink-Rodent Proof U Powerlink- USE-2	Cable color B Black R Red L Blue G Grey O Brown	Cable type L VDE 0295-CLASS 2 7 Strands(USE-2) M Mult wire 19 strands (UL only) H H VDE 0295-CLASS 5(UL,TUV and Dual)
Cable size 1 1.5mm²/16AWG 2 2.5mm²/14AWG 4 4.0mm²/12AWG 5 25.0mm²/3AWG 6 6.0mm²/10AWG 8 10.0mm²/8AWG 9 16.0mm²/4AWG	Approvals T0 TUV 1000V D0 Dual UL600V TUV 1000V U1 Dual UL 1000V TUV 1000V U2 UL 2000V U2 UL 2000V E1 EN 1500V E2 Dual EN 1500V UL 2000V	Spec 0 Normal spec 1 New extra thin	Jacket type 0 normal type

Notes:

UL cable comes in AWG only TUV cable comes in mm² only VDE 2095-CLASS 2 is 7 strands cable Multi wire stranding is 19 strands cable

Dual cable comes marked with AWG and mm² VDE 2095-CLASS 5 is high stranded cable with extra flexibility



PV Cable Assemblies

How to order					
Product family HC Helios cable	Product C H4 A UTX B H4-R	Gender F Female M Male P Mated pair	Connector type C Cable gland M Panel M12 N Panel M14 O Over-mold	Cable size 2 2.5mm²/14AWG 4 4.0mm²/12AWG 6 6.0mm²/10AWG 8 10.0mm²/8AWG	Approvals T0 TUV 1000V D0 Dual UL600V TUV 1000V D1 Dual UL 1000V TUV 1000V U0 UL 600V U1 UL 1000V U2 UL 2000V E1 EN 1500V E2 Dual EN 1500V UL 2000V
Cable length(mm)	R Rec L Blu G Gre O Bro OG Ora	ck-standard I e e y wn	R Ring te IR Isolated T Tube te	d ring terminal	Variations

Examples of cable assemblies and definition of cable length:



- Other terminals and customized strip lengths are available.
- Please contact us for customer variations.



Overmolded Junctions

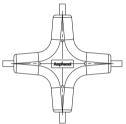






Y Junction

T Junction









Technical Data

Certification
Rated current
Rated voltage
Insulation material

Degree of protection Cable range

Ambient temperature range

IEC 62093, UL 9703 50A max

1000V DC,1500V DC Thermoplastic,UL94 V-0

IP67

2.5mm²/14AWG~10.0mm²/8AWG

-40℃~+85℃



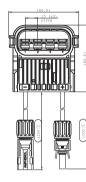
 Please contact us for T/X/R Junction cable assembly ordering configurations.

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Hercules II PV Junction Box







Features: Compact size , Pre-potting Good heat dissipation Breathing hole for pressure balance For automatic assembly at PV module side





How to ord	How to order							
Product family HB Helios JB	Product type C Hercules II Junction box	Terminals and diodes A 4 contacts/3 diodes	Terminal style A Clamping contacts B Soldering contacts C Snake wiring contacts D Spot welding contacts	Diode rating A YJ 25A45V B HY 25A45V C YJ 30A45V				
Sealing type A O-ring	Breathing hole Y Yes	Cable size A 4.0mm²/12AWG Dual cable B 4.0mm²/12AWG TUV only	Cable length positive (Ln)* A 1000mm B 1100mm C 1200mm D 800mm E 1400mm	Cable length negative (Lp)* A 1000mm B 1100mm C 1200mm D 800mm E 1400mm				

	E 1400mm	E 1400mm
Technical Data		
Rated Voltage Rated current Terminal quantity Number of diodes Ribbon connection Sealing type Breathing hole Protection degree Safety class Flame class Cable size Connector type	1000V DC(TUV),1000V DC(U 10A,13A 4 rails 3 Clamping O-ring With Ip67 II UL94 V-0, 5VB 4.0mm³/12AWG Helios H4 -40°C~85°C	.)
Temperature range	100 030	

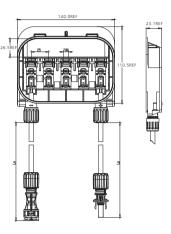
*Ln: Cable length on negative end *Lp: Cable length on positive end

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Hercules **Ⅲ 5T4D PV Junction Box**





Features:

Breathing film for pressure balance Wire-locking design for installation of module Multi-diode options



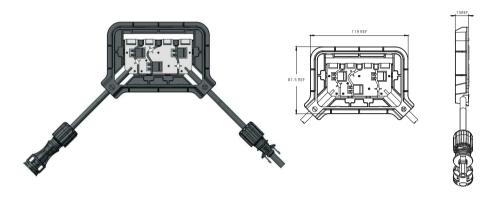


How to order								
Product family HB Helios JB	Product type D Hercules 3 J-box	Rated voltage C TUV 1000V/UL 1000V (5T4D type)	Rated current & Diode C 11A (25PV045)					
Cable Length A Ln:1000mm, Lp:1000mm C Ln:1200mm, Lp:1200mm								

Technical Data	
Rated Voltage	1000V DC(TUV),1000V DC(UL)
Rated current	11A
Terminal quantity	5 rails
Number of diodes	4
Ribbon connection	Clamping
Sealing type	O-ring
Protection degree	IP67
Safety class	II .
Flame class	UL94 V-0,5VA
Cable size	4.0mm²/12AWG
Connector type	UTX connector
Pitch distance	25mm
Ribbon width	6.5mm Max
Temperature range	-40°C~+85°C



Hercules IV **PV Junction Box**



Features:

UL 1500V/TUV 1500V

Variable ribbon pitch from 20~22mm

45° Orientation mating connectors for saving cable





How to order								
Product family HB Helios JB	Product type E Hercules IV Junction-box	Rated voltage A TUV 1500V& UL 1500V	Rated current & Diode A 15A (TP3045)					
Copper plate A Standard	Cable Length* A Ln:1000mm, Lp:1000mm C Ln:1200mm, Lp:1200mm	Variations A Various						

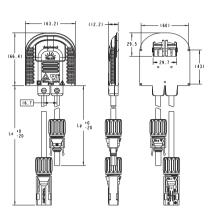
	С 21120011111, гр.:120011111	
Technical Data		
Rated voltage Rated current Terminal quantity Number of diodes Ribbon connection Sealing type Protection degree Safety class Flame class Cable size Pitch distance Ribbon width Temperature range		1500V DC(TUV), 1500V DC(UL) 15A 4 rails 3 Spot Welding or Soldering Potting IP67 II UL94 V-0, 5VA 4.0mm²/12AWG 20~22mm 8mm Max -40°C~+85°C

- *Ln: Cable length on negative end
- *Lp: Cable length on positive end
- Please contact us for additional variations



Thin-film PV Junction Box





Features:

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





How to order									
Product family Product type HB Helios JB T Thin flim junction box		n G	inals and diodes Terminal style 2 contacts/1 diode B Soldering co		•	Diode rating G 5A1000V H 10A1000V J 8A1000V K 20A1200V N Without diode	Sealing type A Potting	Breathing hole N No	
C 2.5 mm²/14AWG Y		Adhesiv Y Yes N No	A 1000mm B 900mm	A 1000mm A 1000r			Variations U with UTX connector N no connector		
Rated voltage Rated current Termination type Protection degree Operation temperature Sealing type Flame class Diode quantity option),1000V DC(UL) lout diode), 4A (wi	th diode)		

^{*} Ln:cable length on negative end; Lp:cable length on positive end

⁻ Please contact us for additional variations



Herclues Triple Pole PV Junction Box





Features:

How to order

3 sets on the right/middle/left of backside panel Potting sealing Bifacial module's better choice

Product famil HB Helios JE	i roduct type	Diode rated current A VSB 1545 B YJ15SQ045 C Diotec 1540 D HY25A45V	Gender F Female end M Male end N Middle one	Cable length A 1000mm B 1100mm Y 00mm(middle end)	Variations Blank H4 connector default A UTX connector			
Technical I	Data							
Rated volta	ge		TUV1000\	TUV1000V/UL1000V				
Rated Curr	ent		12A	12A				
Diode quar	ntity		3	3				
Degree of p	rotection		IP68 (pott	IP68 (potted)				
Flame class			UL94 V-0,	UL94 V-0,5VB				
Safety class	i		II					
Sealing typ	e		Potting					
Ribbon con	Ribbon connection			Spot welding/Soldering				
Connector	Connector Type			Helios H4				
Cable size			12AWG/4.0mm ²					
Temperatu	re range		-40°C~+85°C					

Ordering example:

■ HBNAFA Triple pole Jbox, Female end with VSB1545 diode, 1 meter cable length

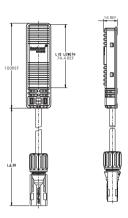
■ HBNAMA Triple pole Jbox, Male end with VSB1545 diode, 1meter cable length

■ HBNANY Triple pole Jbox, Middle end with VSB1545 diode



Hercules Twin PV Junction Box









Features:

IP 68 degree of protection Potting sealing Solution for integrated IC/diode in PV module



HB Helios JB

Product type

I Single pole Junction box
L Double pole Junction box

Diode rated current A VSB 1545

A VSB 1545 B YJ15SQ045 C Diotec 1540 N without diode

Gender Cable length F Female A 1000mm M Male B 1100mm

Cable length Variations*
A 1000mm A Variations
B 1100mm
E 300mm

Technical Data

Rated voltage
Rated current
Diode quantity
Protection degree
Flame classs
Safety class
Sealing type
Ribbon connection
Connector type
Cable size
Temperature range

1000V DC(TUV),1000V DC(UL)

12A 1

> IP68 (Potted) UL94 V-0, 5VB

Potting

Spot welding /Soldering

Helios H4 4.0mm²/12AWG -40°C~+85°C

^{*}Please contact us for additional variations



Tool Kit. P/N: H4TK0000

Water proof with foam insert and assembly tool.





Order number	Designation	Crimp					
		mm²	AWG	H4		UTX	
				S&F C8		S&F	C&F
H4TS0000	Strip Tool	2.5; 4.0; 6.0	14; 12; 10				
H4TC0001	Crimping Tool	2.5; 4.0; 6.0; 10.0	14; 12; 10; 8		X		
H4TC0002	Crimping Tool	2.5; 4.0; 6.0	14; 12; 10	Х			
UTXTC0001	Crimping Tool	2.5; 4.0; 6.0; 10.0	14; 12; 10; 8				Х
UTXTC0002	Crimping Tool	2.5; 4.0; 6.0	14; 12; 10			Х	
H4TD0001	Crimping Die	2.5; 4.0; 6.0; 10.0	14; 12; 10; 8		Х		
H4TD0002	Crimping Die	2.5; 4.0; 6.0	14; 12; 10	X		X	
UTXTD0001	Crimping Die	2.5; 4.0; 6.0; 10.0	14; 12; 10; 8				Х



New Crimping Tool



Order number	Designation	Crimp range			Suital	ole for		
		mm²	AWG	H4		UTX		
				S&F	C&F	S&F	C&F	
H4TC0003	Crimping Tool	2.5; 4.0; 6.0	14; 12; 10	Х				
UTXTC0003	Crimping Tool	2.5; 4.0; 6.0	14; 12; 10			X		
UTXTC0004	Crimping Tool	4.0; 6.0; 10.0	12; 10; 8		X		Х	
UTXTC0005	Crimping Tool	2.5; 4.0&6.0	14; 12&10		X		Х	
UTXTD0003	Crimping Die	2.5; 4.0; 6.0	14; 12; 10	Х		X		
H4TP0002	Locator	2.5; 4.0; 6.0	14; 12; 10	Х				
UTXTP0002	Locator	2.5; 4.0; 6.0	14; 12; 10			X		
UTXTD0005	Crimping Die	4.0; 6.0; 10.0	12; 10; 8		X		Х	
UTXTP0004	Double-Locator	4.0; 6.0; 10.0	12; 10; 8		X		X	
UTXTD0004	Crimping Die	2.5; 4.0&6.0	14; 12&10		X		Х	
UTXTP0003	Double-Locator	2.5; 4.0&6.0	14; 12&10		X		Х	









UTXTD0003

H4TP0002

UTXTP0002

UTXTD0005







UTXTP0004

UTXTD0004

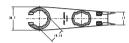
UTXTP0003



Tools & Accessories



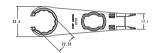






Wrench Tool for Enlarge H4 Connector P/N:H4TW0004







Wrench Tool for H4-R Connector P/N:H4TW0003







Wrench Tool for UTX Connector P/N:UTXTWA001







Wrench Tool for UTX-XL Connector P/N:UTXTWL001







Amphenol® Industrial Solar Technologies

Tools & Accessories

Universal Unlock Tool P/N: H4TU0000



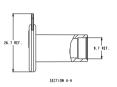




Sealing Cap for Female Connector P/N: UTXPF





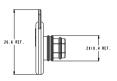




Sealing Cap for Male Connector P/N: UTXPM



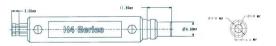






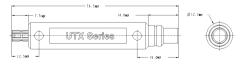
Inspection Tool for H4 Connector P/N:H4TT0001





Inspection Tool for UTX Connector P/N:UTXTT0001





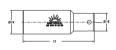


Tools & Accessories

Bulkhead wrech tool: P/N for M12:H4TM1200; P/N for M14:H4TM1400









Enlarge cable connector torch wrench P/N: H4TTW400









Torch wrench:P/N: H4TTW100





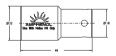




Connector hold tool:P/N: H4TH0000









mphenol product quality commitment

Amphenol Industrial Solar Technologies company emphasize innovation in product design and business relationships. By improving customer relationships, product innovation, and manufacturing technology, we strengthen our overall quality and maintain the highest standard of excellence in all aspects of products and service to our customers.

Customer Satisfaction Team Work Innovation & Improvement





单击下面可查看定价,库存,交付和生命周期等信息

>>Amphenol(安费诺)