Solar Line



Amphenol[®]

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Amphenol's solar line helps people achieve energy independence worldwide





Amphenol®



Amphenol's Helios H4 is the #1 Ranked Solar Connector in the World

Beating out 26 worldwide competing connectors, Amphenol's Helios H4 Solar connectors achieved the top two ranked positions in an independent annual test comparison of solar connectors performed by Photon lab. The test results were published in *Photon - The Solar Power Magazine* (September, 2011).



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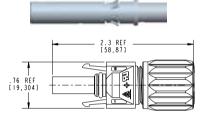
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H4 PV cable connector

H4 Female PV cable connector



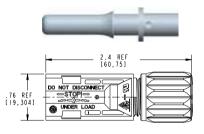
H4 Female socket contact



H4 Male PV cable connector



H4 Male pin contact











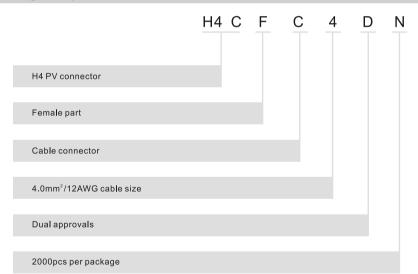
Technical Data

Rated current	32A(2.5mm²,14AWG),40A(4.0mm²,12AWG), 44A(6.0mm²,10AWG), 65A(10.0mm²,8AWG)
Rated voltage	1000V (IEC/CEI), 600V(UL)
Test voltage	6kV for 1 minute, 10kV impulse (1.2/50 µS)(IEC)
Typical contact resistance	$0.30 m\Omega$ for S&F contact, $0.25 m\Omega$ for machined contact
Contact material	Copper, tin plated
Contact system	Machined/cold formed or S&F contact with RADSOK [®] insert
Insulation material	PC
Locking mechanism	Snap-lock, special unlocking tool required to un-mate as required by NEC2008
Cable strain relief	Compression gland with ratcheting gland nut
Degree of protection	IP68 (1 meter, 1 hour) mated
Safety class	II (IEC61140)
Pollution degree	2 (IEC60664)
Overvoltage category	III (IEC60664)
Flame class	UL94 V-0
Ambient temperature range	-40°C+90°C

How to order

Pro	duct line	Pro	oduct type	(Gender	Cor	nector type		Cable size	App	rovals	Pa	ackaging		Variations
H4	Helios H4	С	Connector	F	Female +	С	Cable gland	1	1.5-2.5mm² / 14AWG	Т	TÜV	ı	Single bag	S	S&F contact (single contact)
				М	Male -			2	2.5mm²/ 14AWG	U	UL	С	100pcs bag	Т	Screw termination (field installation)
				Р	Mated pair			4	4.0mm²/ 12AWG	D	Dual	М	500pcs bag		
								5	4.0-6.0mm ² /10-12AWG						
								6	6.0mm ² /10AWG						
								8	10.0mm²/8AWG						
								0	Less contact						

Ordering example:



How to order assembly tools Description Ordering code H4 Strip tool H4TS0000

H4 Crimp Tool H4TC0000 H4 Crimp Tool(new) H4TC0001 H4 Crimp Tool (S&F) H4TC0002 H4 Wrench Tool(new) H4TW0001 H4 Universal Unlocking Tool H4TU0000 H4 Tool-Kit H4TK0000

Assembly Tool



Tool-Kit



(14AWG-10AWG)





Strip tool for 2.5mm2-6.0mm2 (14AWG-10AWG)

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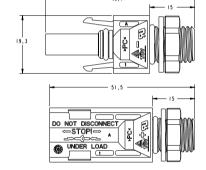
H4 PV panel connector

H4 Female PV panel connector



H4 Female socket contact



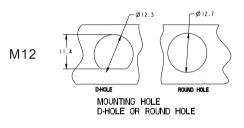


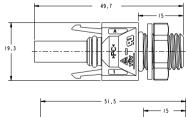
H4 Male PV panel connector

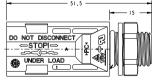


H4 Male pin contact

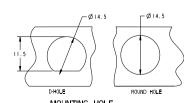












MOUNTING HOLE D-HOLE OR ROUND HOLE



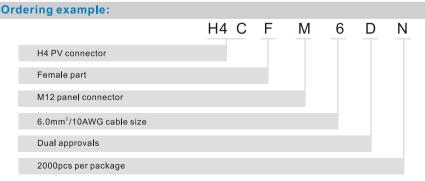




M14

Technical Data 32A(2.5mm²,14AWG),40A(4.0mm²,12AWG), Rated current 44A(6.0mm²,10AWG), 65A(10.0mm², 8AWG) Rated voltage 1000V (IEC/CEI), 600V(UL) Test voltage 6kV for 1 minute, 10kV impulse (1.2/50 µS)(IEC) Typical contact resistance $0.30 m\,\Omega$ for S&F contact, $0.25 m\,\Omega$ for machined contact Contact material Copper, tin plated Contact system Machined/cold formed or S&F contact with RADSOK® insert Insulation material Locking mechanism Snap-lock, special unlocking tool required to un-mate as required by NEC2008 Cable strain relief Compression gland with ratcheting gland nut IP68 (1 meter, 1 hour) mated Degree of protection Safety class II (IEC61140) Pollution degree 2 (IEC60664) Overvoltage category III (IEC60664) UL94 V-0 Flame class Ambient temperature range -40°C--- +90°C

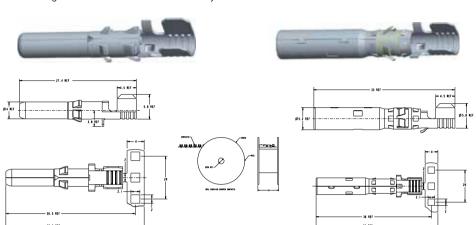
Ho	How to order														
Pro	duct line	Product type		Gender		Connector type		Cable size		Approvals		Packaging			Variations
H4	Helios H4	С	Connector	F	Female +	М	Panel M12	1	1.5-2.5mm ² / 14AWG	Т	TÜV	1	Single	s	S&F contact (single contacts)
				М	Male -	Ν	Panel M14	2	2.5mm²/ 14AWG	U	UL	С	100pcs bag	Т	Screw termination (field installation)
				Р	Mated pair			4	4.0mm ² / 12AWG	D	Dual	М	500pcs bag		
								5	4.0-6.0mm ² /10-12AWG						
								6	6.0mm ² /10AWG						
								8	10.0mm ² /8AWG						
								0	Less contact						



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H4 Stamped and formed contact

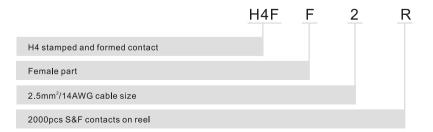
■ Packaged on a reel for automatic assembly



H	How to order											
Product line Contact type				Gender			Cable size		Packaging	Variations		
H4	Helios H4	F	S&F contact	F	Female +	2	2.5 mm²/14AWG	R	2000pcs reel			
				М	Male -	4	4.0 mm²/12AWG;6.0mm²/10AWG					

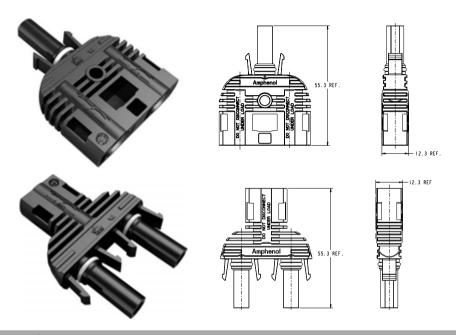
^{*} The above code applies to the H4 cable connector and H4 panel connector with Stamped and Formed contacts.

Ordering example:



H4 Branch Connector

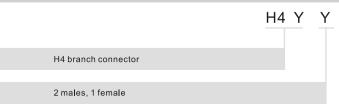
Quick field solar installation



How to order

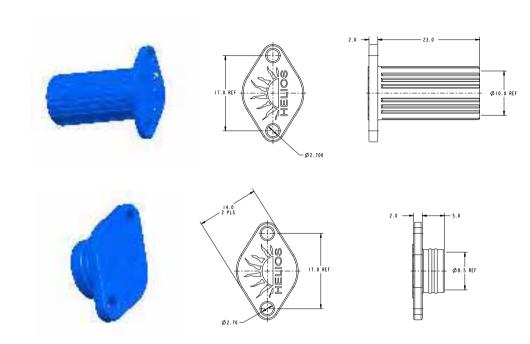
	Product line		Product type		Gender
H	Helios H4	Υ	Y Branch connector		FFM (branch 2 female/1 male)
				Υ	MMF (branch 2 male/1 female)

Ordering example:



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H4 Protective Cap



How	How to order												
	Product line		Product type		Gender	Variations							
H4	Helios H4	Р	Protective cap	F	Female +								
				М	Male -								

Ordering example:

H4 P F

H4 protective cap

Female part

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
Range from 1.5mm² to 25mm²



Certificate:

TÜV and UL certified according to the latest regulations

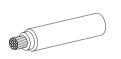
Structure:

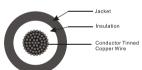
Conductor: Stranded bare or tinned copper
Insulation: XLPE material (white and black)
Jacket: XLPE material (Black, Red and Blue)



Environmental influence resistance:

Acid, alkalinity, UV, ozone and hydrolysis-resistant.



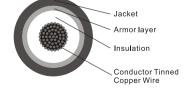


ArmorLink Solar Cable

Advantages

- Rodent resistant
- Extra protection layer





Made using UL4703 and TÜV 2Pfg 1169 as guidelines.



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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.



Cold Snow Low temperature



Sun Drought High tmeperature



Rain Moisture

How to order

Pro	oduct line		Product	(Cable color		Cable type		Cable size		Approvals	Variations
НС	Helios cable	Р	PowerLink - Standard	В	Black - standard	L	VDE 0295 - CLASS 2 7 STRANDS (USE -2)	1	1.5 mm ² /16AWG	Т	тüv	
		Α	ArmorLink -Rodent Proof	R	Red	М	MULTI WIRE 19 STRANDS (UL only)	2	2.5 mm ² /14AWG	U	UL	
		U	PowerLink - USE-2	L	Blue	Н	VDE 0295 - CLASS 5 (UL, TUV and Dual)	4	4 mm ² /12AWG	U1	UL 1000V	
				G	Grey			5	25mm ² /3AWG	D	Dual 600V	
				0	Brown			6	6 mm ² /10AWG	D1	Dual 1000V	
								8	10mm ² /8AWG	N	None	
								9	16mm ² /4AWG			

Notes: UL cable comes in AWG only

TÜV cable comes in mm² only

Dual cable comes marked with AWG and mm²

VDE 2095-CLASS 2 is 7 strands cable

Multi wire stranding is 19 strands cable

VDE 2095-CLASS 5 is high stranded cable with extra flexibility

HelioLug

The only UL2703 certified grounding lug on the market.

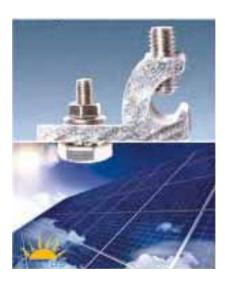
Included Components:

- 1) Lay in lug (tin-plated), solid copper lay-in lug with a stainless-steel set screw)
- 2) Stainless star washer
- 3) Stainless star bolt
- 4) Stainless serrated lock nut



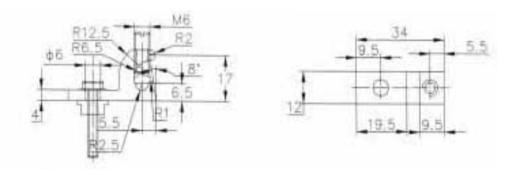
Features:

- The only UL 2703 certified grounding lugavailable
- · Meets all new NEC 2008 requirements
- Quick and easy installation
- For use with virtually all module frames andracks, (0.09 inches (2 mm) to 0.25' (6.35 mm) thick)
- Capable of accepting 4-12 AWG solid copper conductors
- Code compliant "first make last break" grounding system
- Compatible with all module grounding holes, (0.16" (4mm) to 0.295" (7.5mm))
- Certified reusable hardware for servicing without replacement



Hov	v to order						
	1		2	3			4
	HG		L	U			I
	Product Line		Product Type	Appr	ovals		Packaging
HG	Helios Grounding Products	L	HelioLug (Wire Range 4-12 AWG)	U	UL	- 1	Individual
						М	1000pcs

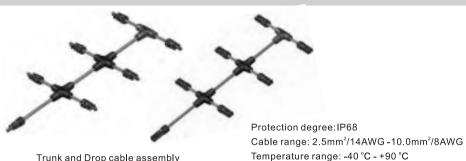
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INSTALLATION INSTRUCTIONS:

- 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 ¼" 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).

H4 Over-molded PV cable assemblies

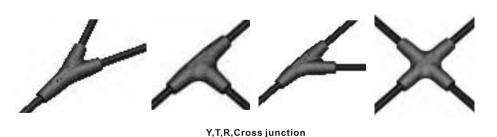




Trunk and Drop cable assembly

Protection degree:IP68 Cable range: 2.5mm²/14AWG -10.0mm²/8AWG Temperature range: -40 °C - +90 °C

Over-molded H4



Protection degree: IP68 Cable range: 2.5mm²/14AWG -10.0mm²/8AWG Temperature range: -40 °C - +90 °C

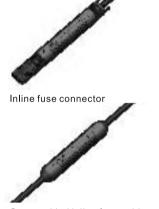
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Inline and Over-molded Diode and Fuse



Protection degree:IP68 Cable range: 2.5 mm²/14 AWG -10.0 mm²/8 AWG Temperature range: -40 °C - +90 °C Withstand rating: 10kA Voltage rating: 1500V max Amperage rating: 30A max Connector options: M-M,M-F,F-F

Over-molded inline diode cable assembly



Protection degree:IP68 Cable range: 2.5 mm²/14 AWG -10.0 mm²/8 AWG Temperature range: -40 °C - +90 °C Surge rating:600V max

Blocking voltage: customer specified

Over-molded inline fuse cable assembly

How to order

P	Product line		Product type	Connector type			Volatage	Current rating		
H4	Helios H4	F	Molded fuse	FM	female.male	1	600V	01	1A	
		D	Molded diode	MM	male/male	2	1000V	02	2A	
				FF	female/female			03	3A	
								*	up to10A	

^{*} Customized cable length and termination are available upon request.

PV cable assemblies

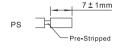
How to order

Pre	oduct line	Pr	oduct type	Gender		Co	nnector type		Cable size	Approvals		
H4	Helios H4	С	Connector	F	Female +	С	Cable gland	2	2.5 mm ² /14AWG	Т	TÜV	
				М	Male -	М	Panel M12	4	4.0 mm ² /12AWG	U	UL	
				Р	Mated pair	N	Panel M14	6	6.0 mm ² /10AWG	D	Dual	
						0	Over-mold	8	10.0mm²/8AWG			

Cable length(mm)	(Cable color		Termination	Variations
	В	Black	PS	Pre-stripped wire	
	R	Red	R	Ring terminal	
	L	Blue	IR	Isolated ring terminal	
	G	Grey	Т	Tube terminal	
	0	Brown	ΙΤ	Isolated tube terminal	

Examples of cable assemblies and definition of cable length:









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* Other terminals and customized strip length are available.

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Amphenol PV Junction box ordering inquiry form

Please fill in the following form so we can select the right product for your application.

Customer	Name:		Country/Area:		Sales:	
Part Name	:		Part Name:		Request Date:	
Descriptio	n:				Demand / Year:	
Target Price	e:		Sample reques	t:	Sample request	date:
Informatio	n 1: (Photovolta	ic Cable Standa	rd): UL4703 an	d/or UL854,TÜV2Pfg116	69/2007 complia	nt
Informatio	n 2:(Photovo l ta	ic Connector Sta	andard): UL670	3(UL1703), TÜV EN505	21/2008 comp l ia	nt
Informatio	n 3:(Photovolta	ic Junction Box	Standard): UL1	703, TÜV DIN V VDE V 0	126-5/2008 (&EI	N50548) compliant
Location:	☐ North-A	merica [Europe 🗌	Other		
Certificati	on: 🗌 TÜV Cer	t. 🗆	UL Cert.	TÜV&UL Cert		
Junction B		onocrystalline S olycrystalline sil		orphous Silicon 🔲 BIF er	Pγ	
Rails Qty	r:	Doide Qt	y:	Nominal Power[W]:	Open	Circuit Voltage[V]:
Short Circ	cuit Current[A]:	Max Pow	ver Voltage[V]:	Max Power Current[A]:	Max S	ystem Voltage[V]:
Cable len	gth(mm):	☐ Includes cor	nnector \square	Does not include conne	ctor Coppe	er foil width/thickness:
	TÜV Spec.	2.5mm² _	4.0mm²	6.0mm²		Black(Recommended)
Cable Size	UL Spec. TÜV&UL Spec.	☐ 14AWG ☐ ☐ 2.5mm²/14A		10AWG ² /12AWG	Cable colo	☐Black&Red
Connecto	or: 🗌 Amp	henol H4		Other:		
Attachme	ent: [(Atta	ch drawing)	(Attach Sa	ample) [(Attac	ch remark)	
	is:					

ModLink Junction Box







- · Modular concept; only add what you need, when you need it
- · "Future proof": Ready to accept future smart modules
- · Base unit is a complete junction box
- · Base unit thermally separated from panel
- · Uses industry standard connections
- · Plug-and-play; no additional components needed
- · No wasted materials when upgrading
- · Smart module snaps into base; no drilling, no additional cabling.
- Cost effective on every level: For panel OEM, distributor, installer. Owner/operator
- · Can be upgraded at any time





Helios ModLink Modular Junction Box

The ModLink Modular Junction Box provides PV panel manufacturers an advanced junction box that enables cutting edge smart technology at no additional cost. Built-in industry standard connectors mate directly to Amphenol Industrial Helios H4 connectors or to a wide range of "Smart" modules. These include DC/DC converters/optimizers, performance monitoring and DC/AC microinverters.

The ModLink Junction Box consists of a base unit that is firmly attached to the back sheet of the panel. The base unit already contains protective diodes and built-in connectors; ready to be used as a basic junction box from the start. When it's time to upgrade just disconnect the connectors, snap-in the smart module, reconnect the connectors and you' re done.

This modular technology provides instant plug-and-play versatility. Smart modules can be added (or removed) at any time without any additional materials needed or wasted.

The base module retains the basic junction box functionality and protection, no matter if there are smart modules attached or not. This allows for exchange or removal of smart modules if repairs or upgrades are needed, without losing the basic function of the PV module.

There is no longer a need for "pigtails" attached to the photovoltaic module, making manufacturing and handling

The Helios ModLink Modular Junction Box is just one of the many solar solutions Amphenol Industrial has to offer.

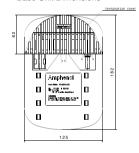
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Technical Data	
Terrint	1
termor on	5 to; VWI:
termo, or and	* Bug / Tysse Lytte / ;
System diodes	Hos Y salous
letel cornect	19.4
Terefactors	Jacob to mee-
OC surpris properation	Tuber - Alex Misser Correctors
Assert congregative	40% KW
E. E. S. e dagee:	1967
and briefly becaled	is a four type of RIV vision also are
a idolate talana	'71



For ampt Optimizer Smart Module (DC/DC Converter) please refer to IDS-5

Base Unit Dimensions

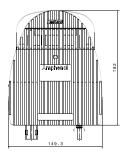


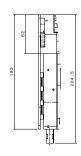


Module Installation



Installed Module Dimensions



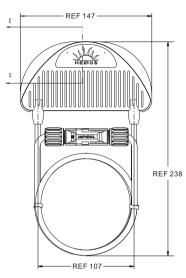


Module Installed



HelioLink[™] PV Junction Box





Features:

- · Hermetically sealed design; no moisture ingress, no condensation
- · Patented, finger-type heat exchanger protects diodes from thermal destruction, even under adverse conditions
- · Thermal seperation from backsheet prevents formation of hot-spot
- · Designed for automatic placement and termination
- · Compact design
- · Built to last, maintenance free



Technical Data	
Rated current	Up to 30A
Rated operating voltage	1000V DC (TÜV) ,600V DC (UL)
Rated max. reverse voltage per diode	45 VDC (standard) 120 VDC (optional)
Protection degree	IP 68 (potted), IP67 (non-potted)
Flame class	UL94-V0
Temperature range	-40° C~+90° C
Connection method	welding
Waterproofing structure	Hermetically sealed, over-molded body
Termination seal	Termination area may be potted (no seal on cover) or non-potted (lip seal on cover)

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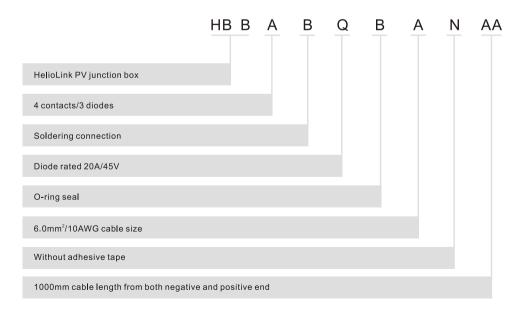
How to order

Pr	oduct line	Product type			minals and Diodes		Terminal style	Diode rating		
НВ	Helios JB	В	B HelioLink junction box		4 contacts/3 diodes	Α	Clamp contacts	Р	20A 100V	
						В	Solder contacts	Q	20A 45V	

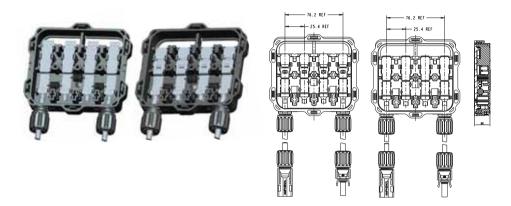
	Sealing type		Cable size	Ad	dhesive	Cab	le length (Ln)*	Cal	ble length (Lp)*	Variations
Α	Potting	Α	6.0 mm ² /10AWG	Υ	Yes	Α	1000mm	Α	1000mm	
В	O-ring	В	4.0mm ² /12AWG	N	No	В	900mm	В	900mm	

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

Ordering example:



Hercules ™ PV Junction Box



Features:

Same dimensions, multi variations IP67 rated Breathing hole for air exchange



Technica	l data
Terminal quantity	3 rails or 4rails
Rated current	30A
Rated voltage	UL: 600V DC
Rated voltage	IEC/TÜV: 1000V DC
Number of bypass diodes	2 or 3 or 4 or 6
Connection cross-section	12AWG/4.0mm ² or 10AWG/6.0mm ²
Temperature range	-40°C to +90°C
Protection degree	IP67
Dimensions	117x107x22mm
Flame class	UL94 V-0; 5VA
Ribbon connection	Clamping, soldering or spot welding
Breathing hole	With or Without
Connector type	Amphenol H4

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How	to c	rde	r
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Pro	oduct line	Pr	oduct type		Terminals and Diodes		Terminal style	Dic	de rating
НВ	Helios JB	Н	Hercules Junction box	Α	4 contacts/3 diodes		Clamp contacts		12A 200V
				В	3 contacts(2 left/1 right)/2 diodes		Solder contacts		12A 40V
				С	3 contacts(1 left/2 right)/2 diodes		Solder contacts left&right opening	С	15A 40V
				D	4 contacts/6 diodes	D	Solder contacts left opening	D	30A 40V
				Е	3 contacts(2 left/1 right)/4 diodes	Е	Solder contacts right opening	Е	20A 40V
				F	3 contacts(1 left/2 right)/4 diodes		Spot weld contacts	F	15A 45V

Se	Sealing type		Breathing hole		Cable size		Adhesive		Cable length (Ln)*		ole length (Lp)*	Variations
Α	Potting	Υ	Yes	Α	6.0 mm ² /10AWG	Υ	Yes	Α	1000mm	Α	1000mm	
В	O-ring	N	No	В	4.0mm ² /12AWG	N	No	В	900mm	В	900mm	

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

Ordering example:

	нв н	A	В	C	A	Y	A	N	AA
Hercules PV junction box									
4 contacts/3 diodes									
Soldering connection									
Diode rated 15A/40V									
Potting seal									
With breathing hole									
6.0mm ² /10AWG cable size									
Without adhesive tape									
1000mm cable length from both neg	ative and posi	tive end							

Thin-film PV junction box



Features:

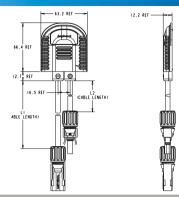
Low profile Over-molded design for better sealing SMD for efficient heat dissipation





Technical Data Rated current Up to 20A 1000V DC (TÜV), 600V(UL) Rated voltage Protection degree IP 67 Flame class UL94 V-0 -40° C~+90° C Temperature range Termination style Solder Sealing of cover Potting

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How to order												
Product line F		Product type	Terminals and Diodes			Terminal style	Diode rating					
НВ	Helios JB	Т	Thin flim junction box	G	2 contacts/1 diode	В	Solder contacts	G	5A 1000V			
								Н	10A 1000V			
								J	8A 1000V			
								K	15A 1000V			
								Р	20A 100V			
								Q	20A 45V			
								N	N/A			

Se	aling type	Cable size		Adhesive		Cabl	e length (Ln)*	Cab	le length (Lp)*	Variations
Α	Potting	В	4.0mm ² /12AWG	Υ	Yes	Α	1000mm	Α	1000mm	
		С	2.5 mm ² /14AWG	N	No	В	900mm	В	900mm	

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

r lease contact us for additional variation	5115							
Ordering example:								
	нв т	G	В	Q	A	C	N	А
Thin-film PV junction box								
2 contacts/1 diode								
Soldering connection								
Diode rated 20A/45V								
Potting seal								
2.5mm²/14AWG cable size								
Without adhesive tape								
1000mm cable length from both nega	tive and positive	end						

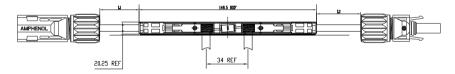
Pencil PV junction box for BIPV



Features:

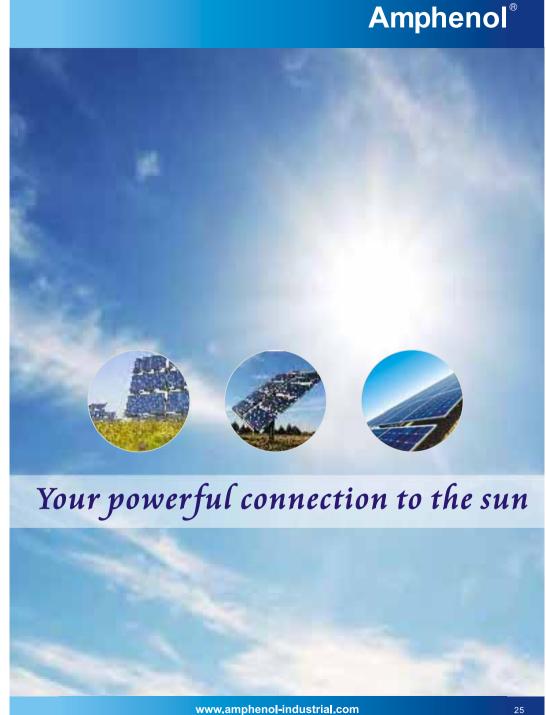
Low-profile, stable performance and easy to install Provides the user with a practical and economical solution Tin-solder termination





Technical Data

Max. voltage	1000V
Rated current	20A
Bypass current	3A/10A
Scope of power	40 ~ 120W
Ambient temperature	-40. ~+85.C
Protection degree	IP65
Cable cross-section	2.5mm2
Dimension L*W*H	130 * 8 * 9mm
Part number	PV-100329-000



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Amphenol:

H4YX H4YY H4TW0004