



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Amphenol®



Helios H4 Panel Connector

Industrial Operations (AIO) offers products and solutions for all segments of the solar electric system. AIO understands the need for efficient (low loss) power transfer, highly reliable, and cost effective solutions that are required to be competitive in this industry. We can provide panel manufacturers, installers, and OEM's with connectivity products for both thin film and crystalline silicon technologies. Designed for applications that use solar inverters and combiner boxes. The H4 Panel Connector is dual-rated for UL and TÜV. The connector meets NEC 2008 requirements without the need for extra locking collars or locking sleeves and is available in three different gauges including 14 AWG rated at 36A, 12 AWG rated at 45A and 10 AWG rated at 52A. Industrial can help you power the planet with the sun. The Helios H4 Panel Connector is just one of the solar connector solutions Amphenol Industrial has to offer.

H4 Features:

- UL and TÜV dual approval
- Fully intermateable with industry standard
- Meets all new NEC 2008 requirements
- Quick and easy secure snap lock mating
- Simple unlocking tool meets NEC requirements
- Long-term UV and Ozone resistance
- Highest current rating in industry
- RoHS compliant
- Complete Cable Assemblies available
- Low contact resistance means low loss
- Ready for field assembly



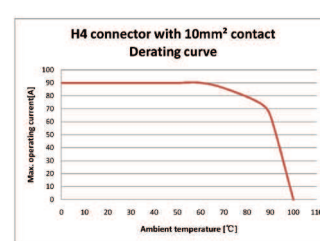
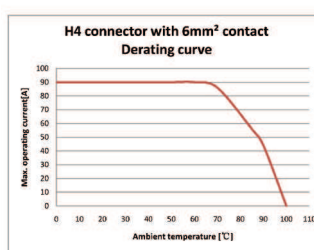
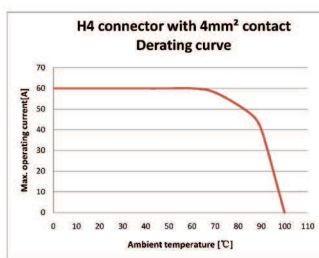
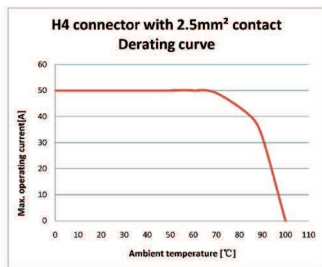
H4 Panel Connector

Technical Data

Rated current	36A(2.5mm,AWG14),45A(4.0mm,AWG12),52A(6.0mm,AWG10),60A(10.0mm,AWG8)
Rated voltage	1000V (IEC/CEI), 600V(UL)
Test voltage	6kV for 1 minute, 10kV impulse (1.2/50µS)(IEC)
Typical contact resistance	0.25m Ω
Contact material	Copper, tin plated
Contact system	Machined/cold formed contact with RADSOK® insert
Insulation material	PC
Locking mechanism	Snap-lock, special unlock 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-V0
Ambient temperature range	-40°C --- +90°C



Derating curves



How to order

1	2	4	5	6	7	8									
H4	C	F	M	2	D	I									
Product line	Product type	Gender	Connector Type	Cable size	Approvals	Packaging	Variations								
H4	Helios solar line	C	Connector	F	Female +	M	panel M12	2	2.5mm² /14AWG	T	TÜV	I	Single	S	S & F Contact (Single Contact)
				M	Male -	N	panel M14	4	4.0mm² /12AWG	U	UL	C	100pcs, bags		
				P	mated pair			6	6.0mm² /10AWG	D	dual	D	500pcs, bags		
								8	10.0mm²/8AWG			M	1000pcs, bags		
								0	less contact			N	2000pcs, loose		

How to order assembly tools

Description	Ordering code
H4 Strip Tool	H4TS0000
H4 Crimp Tool	H4TC0000
H4 Universal Unlocking Tool	H4TU0000



Crimp Tool



Strip Tool for 2,5SQMM-6SQMM (AWG10-AWG14)



Universal Unlocking Tool

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For further information on your individual application requirements, contact: Amphenol Corporation

North America:
Amphenol Industrial Operations
180 N. Freeport Drive, Plant 4
Nogales, AZ 85621
Tel: (520) 285-5130
Fax: (520) 285-5134
Email: rpedrazzini@amphenol-aio.com

Europe:
Amphenol Industrial Operations Europe
Via Barbaiana 5
1-20020 Lainate (MI) Italy
Tel: +39 02 93254.204
Fax: +39 02 93254.444
Email: info@amphenol-aio.com

Middle East:
Amphenol Middle East Enterprises FZE
Office C-37 PO Box 21107
Ajman Free Zone, UAE
Tel: +9716-7422494
Fax: +9716-7422941
Email: ameeffe@eim.ae

Asia:
Amphenol Technology Shenzhen Ltd
Block 5 Fuan 2nd Industrial Park
Dayang Rd, Fuyong Baoan
Baoan, Shenzhen, China 518103
Tel: +86 755 2881 8389
Fax: +86 755 2991 8310
Email: enquiry@amphenol-aio.com