

Amphenol®



Helios H4

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. Amphenol® has a broad range of technologies to help minimize the cost of inverters and power conditioners. Amphenol® Industrial can help you power the planet with the sun. The Helios H4 connector is just one of the solar connector solutions Amphenol® Industrial has to offer.

H4 Features:

- UL, TÜV, and CSA approved
- 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

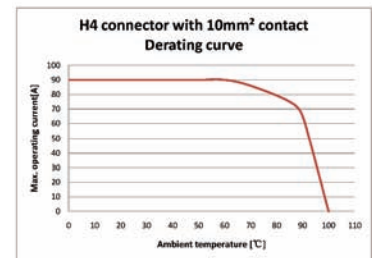
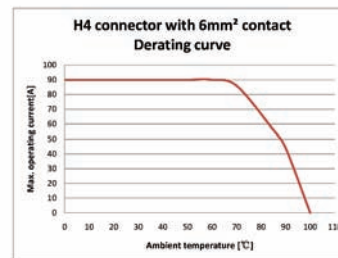
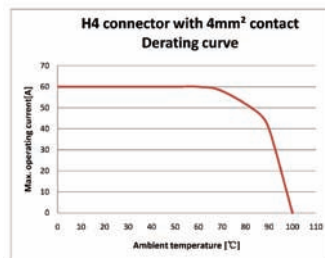
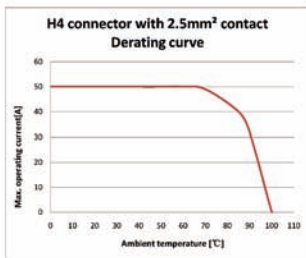


Technical Data

Rated current	32A(2.5mm, AWG14), 40A(4.0mm, AWG12), 44A(6.0mm, AWG10), 65A(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	3	4	5	6	7	8								
H4	C	F	C	2	D	I	S								
Product line	Product type	Gender	Connector type	Cable size	Approvals	Packaging	Variations								
H4	Helios solar line	C	Connector	F	Female + (standard)	C	Female - (standard)	2	2.5mm² /AWG14	T	TÜV	I	Single	S	S & F contact (Single contact)
		P	Protective cap	M	Male - (standard)			4	4.0mm² /AWG12	U	UL	C	Bulkpack, 100 purchase	T	Screw Termination contact
				P	mated pair			6	6.0mm² /AWG10	D	dual	D	Bulk pack, 500 purchase		
								8	10.0mm² /AWG8			M	Bulk pack, 1000 purchase.		
								0	less contact			N	Bulk pack, 2000 purchase (default package)		

How to order assembly tools

Description	Ordering code
H4 Strip Tool	H4TS0000
H4 Crimp Tool	H4TC0000
H4 Wrench Tool	H4TW0000
H4 Universal Unlocking Tool	H4TU0000
H4 Tool-Kit	H4TK0000



Tool-Kit



Universal Unlocking Tool



Crimp Tool



Wrench Tool



Strip Tool for 2.5SQMM-6SQMM (AWG10-AWG14)

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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

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