

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 four different gauges including 14 AWG rated at 32A, 12 AWG rated at 40A, 10 AWG rated at 44A and 8 AWG rated at 65A. 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

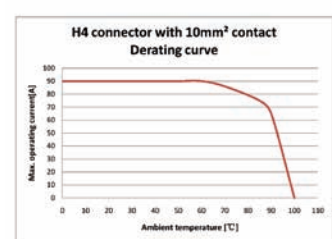
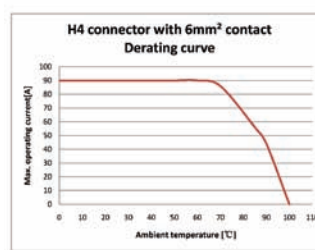
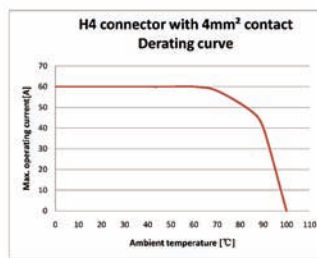
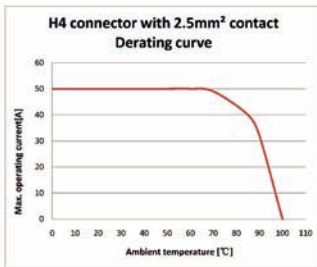


Technical Data

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		M		2		D		I		S	
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	T	Screw Termination Contact
				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

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