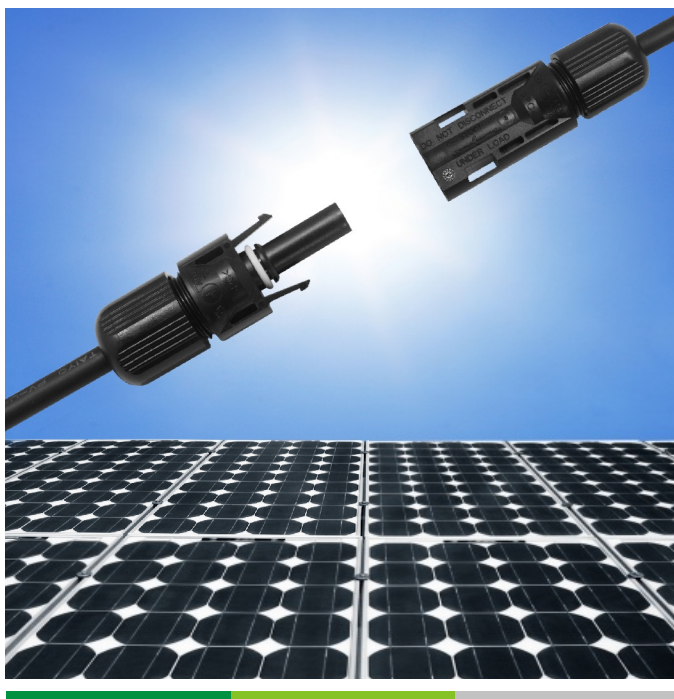


# Amphenol®



## 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:

- 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 power loss
- Ready for field assembly
- No assembly required, no small parts to lose

# Helios H4

Amphenol solar connector



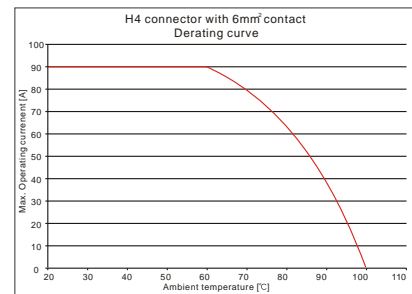
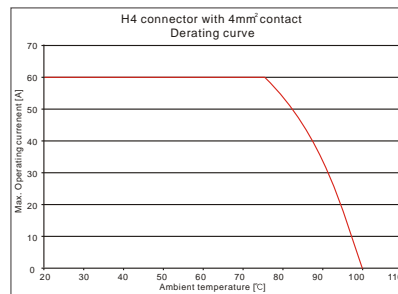
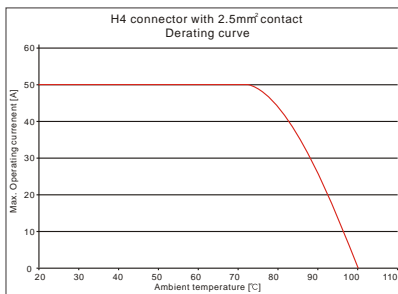
RADSOK® Contact

## Technical Data

Rated current	36A(2.5mm <sup>2</sup> ,AWG14),45A(4.0mm <sup>2</sup> ,AWG12),52A(6.0mm <sup>2</sup> ,AWG10)
Rated voltage	1000V (IEC/CEI), 600V(UL)
Test voltage	6kV for 1 minute, 10kV impulse (1.2/50µS)(IEC)
Typical contact resistance	0.25mΩ
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							
H	4	C	F	C	2	D	I							
Product line	Product type	Product		Gender	Cable entry	Cable size	Approval	Package	Variation					
Helios solar line	H4 solar connector	C	Connector	F	Female + (standard)	C	cable gland	2	2.5 mm <sup>2</sup> /AWG14	T	TUV approved	I	Single	
		P	Protective cap	M	Male - (standard)	M	bulkhead M12	4	4 mm <sup>2</sup> /AWG12	U	UL approved	C	Bulk pack, 100 purchase	
		Y	Branch connector	P	mated pair	N	bulkhead M14	6	6 mm <sup>2</sup> /AWG10	D	dual approval	D	Bulk pack, 500 purchase.	
				G	female -	O	over-mold					M	Bulk pack, 1000 purchase.	
				N	male +							N	Bulk pack, 2000 purchase. (default package)	

## Tooling part numbers

Crimp tool for 2,5SQMM-6SQMM (AWG10-AWG14)  
PV-670508-000



Wrench/disconnect/assembly tool  
PV-670803-000



Strip tool for 2,5SQMM-6SQMM (AWG10-AWG14)  
PV-670509-000



Unlocking ring tool  
PV-670804-000



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

### North America:

Amphenol Industrial Operations  
40-60 Delaware Avenue,  
Sidney, NY 13838-1395  
Tel: 1-520-285-5114 1-888-364-9011  
Fax: 1-520-397-7169  
E-mail: energy@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: ameefze@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-industrial.com