

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



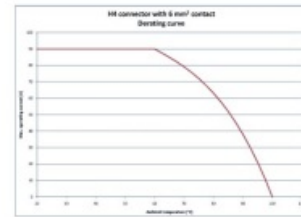
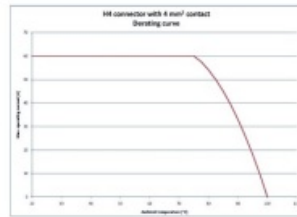
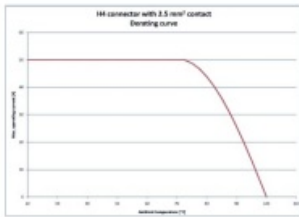
RADSOK® Contact

Technical Data

| | |
|----------------------------|--|
| Rated current | 36A(2.5mm ² ,AWG14),45A(4.0mm ² ,AWG12),52A(6.0mm ² ,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 | PBT/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, IP2X unmated (IEC60529) |
| Safety class | II (IEC61140) |
| Pollution degree | 2 (IEC60664) |
| Overvoltage category | III (IEC60664) |
| Flammability class | UL94-V0 |
| Temperature range | -40°C --- +90°C (IEC/CEI), max. temperature +105°C (IEC/CEI) |



Derating curves



Connector part numbers

| | | 2,5SQMM/AWG14 | 4,0SQMM/AWG12 | 6,0SQMM/AWG10 |
|-----------------------------------|--|---------------|---------------|---------------|
| Cable connector male | | PV-100507-M | PV-100508-M | PV-100506-M |
| Cable connector female | | PV-100507-F | PV-100508-F | PV-100506-F |
| Cable connector mated pair | | PV-100507-000 | PV-100508-000 | PV-100506-000 |
| Panel mount receptacle male | | PV-080511-M | PV-080509-M | PV-080510-M |
| Panel mount receptacle female | | PV-080511-F | PV-080509-F | PV-080510-F |
| Panel mount receptacle mated pair | | PV-080511-000 | PV-080509-000 | PV-080510-000 |

Tooling part numbers

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



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



Wrench/disconnect/assembly tool
PV-670803-000



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: 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-industrial.com

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