

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



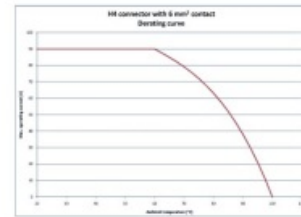
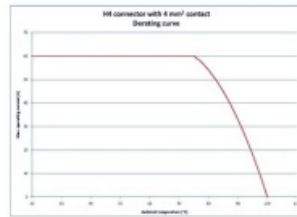
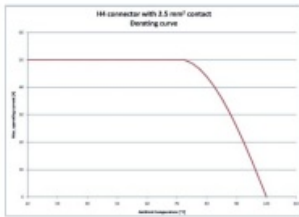
RADSOK® Contact

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 partnumbers

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

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