

# 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

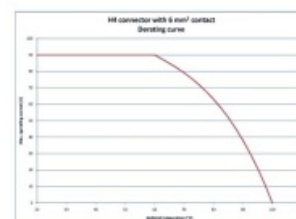
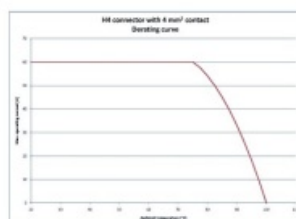
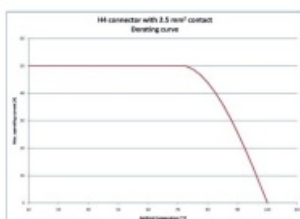


## Technical Specifications





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	9KV
Typical contact resistance	0.25?
Contact material	Copper, tin plated
Contact system	Crimp Amphenol Radsok <sup>®</sup> , machined/cold formed contact with lamellar contact grid
Insulation material	PBT
Locking mechanism	Snap-lock, special unlock tool required to un-mate according to NEC 2008 article 690.33
Cable Strain relief	According to DIN V VDE 0126-3
Protection degree	IP68 mated, IP2X unmated (IEC60529)
Pollution degree	2
Flammability class	UL94-V0
Temperature rating	-40C to +90C (IEC/CEI), max temp +105C



## Derating curves



## Connector partnumbers

		2,5SQMM/AWG14	4,0SQMM/AWG12	6,0SQMM/AWG10
Cable connector male		PV-090507-M	PV-090508-M	PV-090506-M
Cable connector female		PV-090507-F	PV-090508-F	PV-090506-F
Cable connector mated pair		PV-090507-000	PV-090508-000	PV-090506-000
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



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

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