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 three different gauges including 14 AWG rated at 36A, 12 AWG rated at 45A and 10 AWG rated at 52A. 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



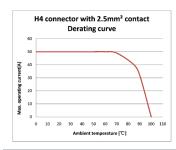
Amphenol solar connector

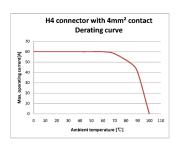


| Technical Data | | | | | | |
|----------------------------|---|--|--|--|--|--|
| Rated current | 36A(2.5mm,AWG14),45A(4.0mm,AWG12),52A(6.0mm,AWG10),60A(10.0mm,AWG8) | | | | | |
| Rated voltage | 1000V (IEC/CEI), 600V(UL) | | | | | |
| Test voltage | 6kV for 1 minute, 10kV impulse (1.2/50μS)(IEC) | | | | | |
| Typical contact resistance | 0.25 m 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 | | | | | |

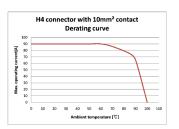


Derating curves









How to order

| | 1 | | 2 | | 4 | | 5 | | 6 | | 7 | | 8 | | |
|----|-------------------|---|--------------|---|------------|----|--------------|---|---------------------------|---|-----------|----|----------------|---|-----------------------------------|
| | H4 | | С | | F | | М | | 2 | | D | | I | | |
| | Product line | | Product type | | Gender | Co | nnector Type | | Cable size | | Approvals | | Packaging | | Variations |
| H4 | Helios solar line | С | Connector | F | Female + | М | panel M12 | 2 | 2.5mm ² /14AWG | Т | TÜV | -1 | Single | S | S & F Contact (Single Contact) |
| | | | | М | Male - | N | panel M14 | 4 | 4.0mm ² /12AWG | U | UL | С | 100pcs, bags | | |
| | | | | Р | mated pair | | | 6 | 6.0mm ² /10AWG | D | dual | D | 500pcs, bags | | |
| | | | | | | | | 8 | 10.0mm ² /8AWG | | | М | 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

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

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

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