

The Most Powerful PV Connector In The World

Items		H4 PV Connector (-40°C up to +90°C)	Others
Rated current	2.5mm ² /AWG14	32A	22A
	4.0mm ² /AWG12	40A	30A
	6.0mm ² /AWG10	44A	30A
Protection degree		IP68	IP67
Contact resistance		0.25m Ω	0.5m Ω
Meets NEC2008 (690.33)		Yes	Need extra locking sleeve

Amphenol

New Photovoltaic Interconnect Solutions from Amphenol

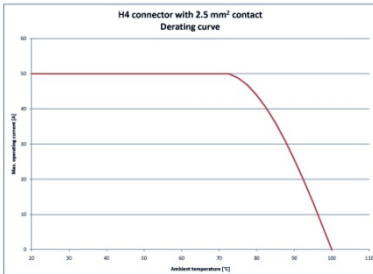
- Machined Radsok contact technology with much lower contact resistance than competition
- Higher current rating than competition
- Full NEC 2008, 690.33 compliant
- IP68 rated, compared to IP67 as market standard
- Ratcheting backnut, preventing loosening during assembly process, especially for field installation
- High sealing range for the strain relief, covering all contact sizes.
- Intermateable with main competition products

H4 connectors Technical Specifications

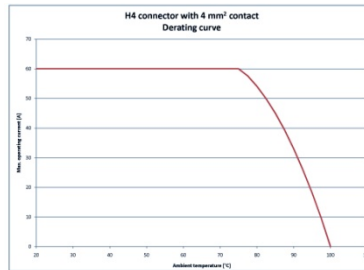
Rated current	36A (2.5mm ² , AWG14), 45A (4.0mm ² , AWG12), 52A (6.0mm ² , AWG10)
Rated voltage	1000V (IEC/CEI), 600V (UL)
Test voltage	9kV
Typical contact resistance	≤0.25Ω
Contact material	Copper, tin plated
Contact system	Crimp Amphenol Radsok®, machined/cold formed contact with lamellar contact grid
Insulation material	PBT/PC
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)
Safety class	II
Pollution degree	2
Overvoltage category	III
Flammability class	UL94-V0
Temperature rating	-40C to +90C (IEC/CEI), max operating temp +105C
Certifications	TUV and UL1703



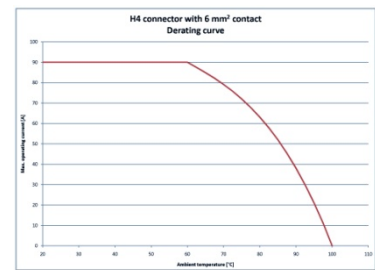
Derating curves



H4 with 4mm contact with 2,5sqmm solar wire
Current rating: 50A, 40A TUV, 35A UL



H4 with 4mm contact with 2,5sqmm solar wire
Current rating: 60A, 48A TUV, 35A UL



H4 with 4mm contact with 2,5sqmm solar wire
Current rating: 90A, 56A TUV, 35A UL

Connector partnumbers

Cable connector male
Cable connector female
Cable connector mated pair
Panel mount receptacle male
Panel mount receptacle female
Panel mount receptacle mated pair

2,5SQMM/AWG14
PV-100507-M
PV-100507-F
PV-100507-000
PV-130511-M
PV-130511-F
PV-130511-000

4,0SQMM/AWG12
PV-100508-M
PV-100508-F
PV-100508-000
PV-130509-M
PV-130509-F
PV-130509-000

6,0SQMM/AWG10
PV-100506-M
PV-100506-F
PV-100506-000
PV-130510-M
PV-130510-F
PV-130510-000



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-670803-000



Universal tool
PV-670805-000



Other products

Photovoltaic cables: Powerlink
Photovoltaic rodent proof armored cables: Armorlink



Standard junction box: Amphoton
Overmolded junction box: Helios



Thin film junction box: Amphoton
Overmolded thin film junction box: Helios

