

Amphenol®



Overmolded Solar Junctions

Amphenol Industrial Products Group (AIPG) offers products and solutions for all segments of the solar electric system. AIPG understands the need for efficient (low loss) power transfer, highly reliable and cost effective solutions that are required to be competitive in the industry. We can provide panel manufacturers, installers and OEM's with connectivity products for both thin film and crystalline silicon technologies.

Overmolded Solar Junctions provide the ideal low cost, high quality solution for commercial photovoltaic installations. The molded construction provides weather tight housing preventing moisture from getting to the cable joints and provides the needed electrical protection with rugged design. They can be pre-fabricated with various lengths, number of branches and distance between branches and cable end options according to customer's specification.

Amphenol Industrial Products Group maintains the highest standards for excellence. Overmolded Solar Junctions are just one of the cost effective solar solutions Amphenol Industrial Products Group has to offer.

Features:

- Rugged, low cost solution
- Amphenol sealing technology
- Reduced maintenance costs
- Patent-pending design
- Fully intermateable with industry standard connectors
- UL approved

Assembly Instructions:

- Always follow the manufacturer's recommended installation instructions for the connectors used in the assemblies that are specified by the system designer.
 - If Amphenol H4 has been specified, please find the Amphenol H4 Assembly Instructions here: www.amphenol-industrial.com/index.php/literature/catalogs
- Always follow PPE protocol when handling these assemblies under source load. Please ensure necessary PPE actions are employed before handling any of the components used in these assemblies (including but not limited to overmolds, connectors, wire) while under source load.

www.tpil.com

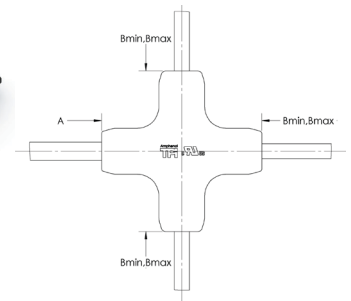
www.amphenol-industrial.com



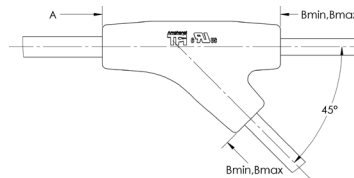
Technical Data

DC Voltage Rating	1000V
DC Current Rating	50A (15A Per Drop If Fused)
Flammability Rating	UL94 V-0
Protection Degree	IP 68
Operating Temp. Range	-40°C to 70°C
Cable Sizes	8AWG, 10AWG
Connector Options	H4 Connector/Multi-Contact MC4 Connector
Cable Type	PV Wire
Regulatory Approval	UL Recognized

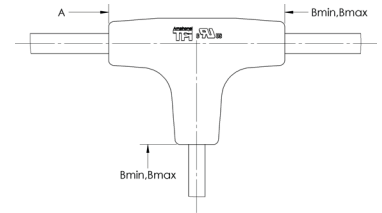
Termination Type	Trunk	Drops	
	A	B min	B max
Male Connector	144	144	1000
Male Fused Connector		352	
Female Connector	119	119	
Female Fused Connector		324	



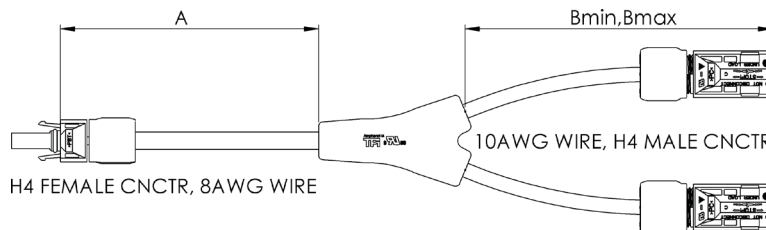
OVERMOLDED X JUNCTION



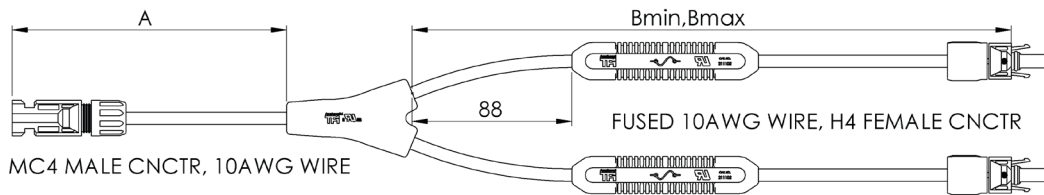
OVERMOLDED R JUNCTION



OVERMOLDED T JUNCTION



OVERMOLDED Y JUNCTION - 222100



OVERMOLDED Y JUNCTION - 222621

How to order

Product Type	Junction Type	Trunk Configuration/Connector	Drop Configuration	Drop Connector
22	Solar Junction	0 R 0 8AWG H4M	0 10AWG—"Min"	0 H4M
		1 T 1 8AWG H4F	1 10AWG—1m	1 H4F
		2 Y 2 8AWG MC4M	2 10AWG Fused (15A)—"Min"	2 MC4M
		3 X 3 8AWG MC4F	3 10AWG Fused (15A)—1m	3 MC4F
		4 10AWG H4M	4 12AWG—"Min"	
		5 10AWG H4F	5 12AWG—1m	
		6 10AWG MC4M	6 12AWG Fused (15A)—"Min"	
		7 10AWG MC4F	7 12AWG Fused (15A)—1m	

NOTE:

- DO NOT mate MC4 or any other connector to H4 connector and vice versa. Specifications listed herein are valid only, if the mated pair are from the same connector manufacturer.
- Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications.

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

North America:
Amphenol Industrial Operations
180 N. Freepoint Drive, Plant 4
Nogales, AZ 85621
Tel: (520) 285-5130
Fax: (520) 285-5134

Email: tech@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: +9 716-7422494
Fax: +9 716-7422941

Email: jhussain@amphenol-industrial.com

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-aio.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Amphenol:](#)

[222100](#) [221641](#)