

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

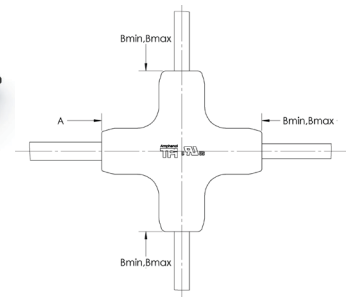
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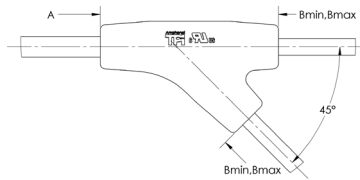
Technical Data

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

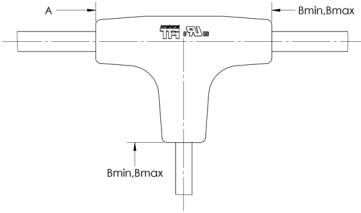
Termination Type	Trunk		Drops	
	A	B min	B max	
Male Connector	144	144	1000	
Male Fused Connector		352		
Female Connector	119	119		
Female Fused Connector		324		



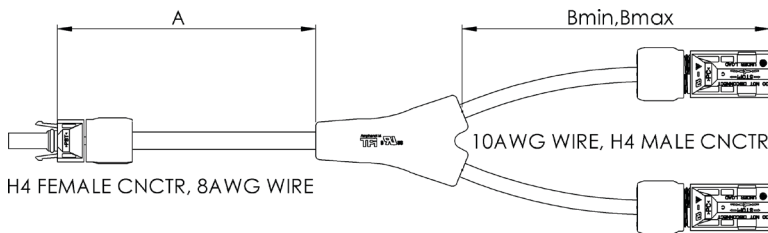
OVERMOLDED X JUNCTION



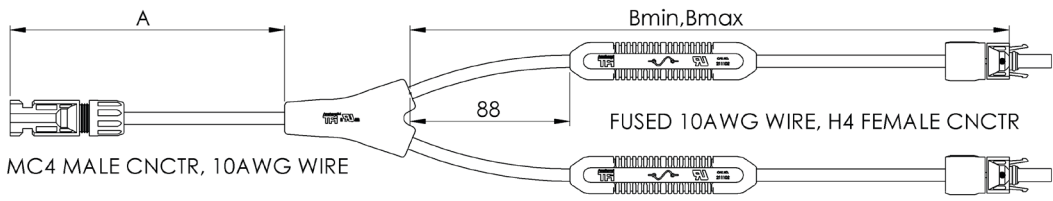
OVERMOLDED R JUNCTION



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	
		0	R	0	10AWG—"Min"	0	H4M
22	Solar Junction	1	T	1	10AWG—1m	1	H4F
		2	Y	2	10AWG Fused (15A)—"Min"	2	MC4M
		3	X	3	10AWG Fused (15A)—1m	3	MC4F
				4	12AWG—"Min"		
				5	12AWG—1m		
				6	12AWG Fused (15A)—"Min"		
				7	12AWG Fused (15A)—1m		

NOTE:
 1) 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.
 2) Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications.

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

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