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HeliosFuse

Amphenol Technical Products International (ATPI) offers products and solutions for all segments of the solar electric system. ATPI 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 manufactures, installer, and OEM's with connectivity products for both thin film and crystalline silicon technologies.

ATPI's molded in-line fuse, HeliosFuse, provides a quick solution for installing in-line solar fuses. The molded construction provides weather tight housing preventing moisture from getting to the fuse construction. The in-line fuse provides the needed electrical protection to prevent damage to the solar array should a ground fault occur. HeliosFuse is currently offered in our custom wire harnesses.

Amphenol Technical Products International can help you power the planet with the sun. The HeliosFuse is just one of the solar solutions Amphenol Technical Products International has to offer.

HeliosFuse

Features

- 1A to 30A current rating
- 1500V (1000V compatible)
- IP68 protection degree
- UL4248-1 & UL4248-19 recognized
- UL9703 listed
- **RETIE** compliance

- Meets UL94-0V0 flammability rating

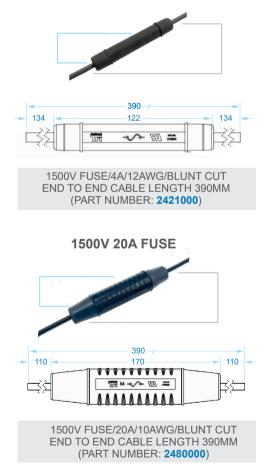


1500V HeliosFuse

Specifications

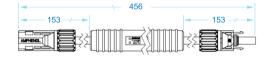
Description	1500V HeliosFuse				
Rated Voltage Fuse	1500V				
Rated Current Fuse	2.5A, 3.5A, 4A, 6A, 8A, 10A, 12A, 15A, 20A, 25A, 30A				
Connector Options	UL Listed Connectors: H4, H4 Plus, MC4, EVO2, PV4-S1				
Cable Size Options	12AWG or 10AWG or 8AWG 2kV PV Wire				
Ingress Protection Degree	IP68 (1 Meter, 1 Hour)				
Ambient Temperature Range	-40°C to 50°C				
Material Safety	RoHS2 Compliant				
Flammability Classifications	UL94-V0				
Outdoor Suitability	UV Resistance, F1 Rated				
Approvals	UL4248-1; UL4248-18 Recognized (File#: E352863) UL9703 Listed (File#: E498904)				

1500V 2.5A-4A FUSE



1500V 5A-15A FUSE





1500V FUSE/15A/10AWG/H4 M-F END TO END CABLE LENGTH 390MM (456MM REF OVERALL W/CONNECTORS) (PART NUMBER: **2470020**)



1500V HELIOSFUSE

Ordering Information

<u>24</u> 0 0 01 0 PRODUCT RATED **PV WIRE** END CURRENT SIZE TYPE / C 0 2.5 A 00 BLUNT (3.5 A 10AWG 0 BOTH EI 01 (8MM, SI 2 4 A AMPHEI 02 3 6 A H4 FEN 4 8 A MULTI C 03 TO FEM 1500V 12AWG 24 5 10 A HeliosFuse MULTI C 04 TO FEM 6 12 A AMPHE 15 A 05 MALE T 8 20 A TYCO EI MALE TO 06 8AWG 2 (12AWG 9 25 A 07 OTHER 30 A А



TERMINATION ONNECTORS	E	END TO NDCABLE LENGTH	CUSTOM LENGTH
CUT BOTH ENDS			
END PRESTRIPPED SLUGS ON)	0	STANDARD	
ENOL H4 MALE TO MALE (M-F)		(390 MM)	
CONTACT MC4 MALE MALE (M-F)			
CONTACT EVO2 MALE MALE			
ENOL H4 PLUS TO FEMALE (M-F)	- 1	CUSTOM	-X (mm)
ELECTRONIC PV4-S1 O FEMALE (M-F) G/10AWG)			-7 (1111)
CONNECTORS			

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OVERMOLDED SOLAR JUNCTIONS

Amphenol Technical Products International (ATPI) offers products and solutions for all segments of the solar electric system. ATPI understands the need for efficient (low loss) power transfer, highly reliable, and cost effective solutions that are required to be competitive in this industry.

ATPI's overmolded solar junctions provides 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 a rugged design. They can be pre-fabricated with various lengths, number of branches, distance between branches and cable options according to customer specifications.

Amphenol Technical Products International maintains the highest standards for excellence. The 1500V overmolded solar junctions is just one of the cost effective solar solutions Amphenol Technical Products International has to offer.

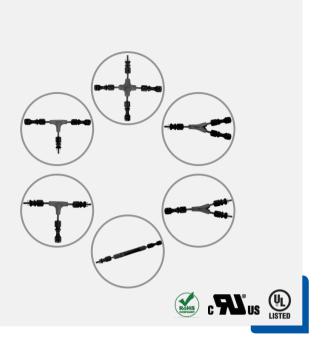
Features

- 1500V DC Current Rating
- 4AWG, 6AWG, 8AWG, 10AWG, 12AWG, 14AWG cable options for 1500V
- IP68 ingress protection
- Long term UV resistance
- Ready for field assembly
- UL9703 listed & UL6703 approved
- Customer wiring harness services
- RETIE compliance

Specification

DC Current Rating	1500
Junction Current Rating	65A
Connector Options	H4/M
Cable Size Options	4AW
Ingress Protection Degree	IP68
Ambient Temperature Range	-40°
Material Safety	RoH
Flammability Classifications	UL9
Outdoor Suitability	UVI
Approvals	UL6 UL4 UL9





00V (600V & 1000V Compatible)

MC4/EVO2/H4 PLUS/PV4-S1

NG, 6AWG, 8AWG, 10AWG, 12AWG

8 (1m Water/24hours)

°C to 50°C

HS2 Compliant

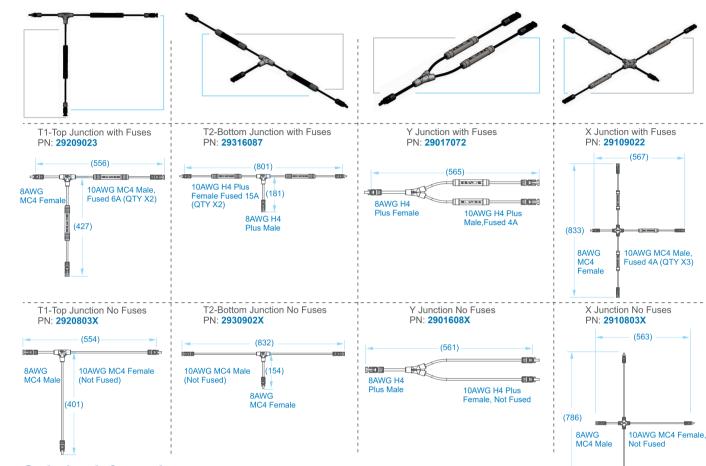
94-V0

Resistance, F1 Rated

6703; UL4248-1; 4248-18 Recognized 9703 Listed

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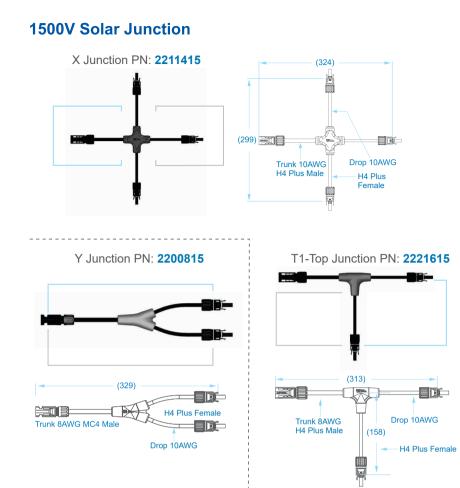
1500V Solar Junction



Ordering Information

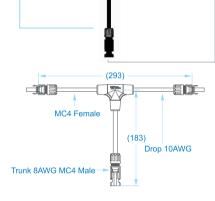
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STAND	ARD PRODUCT		ТҮРЕ		TRUNK SIDE		DROP SIDE	DRC	P WITH FUSES
				00	10AWG H4 MALE	00	10AWG H4 MALE	0	FUSED (2.5A)
			01	10AWG H4 FEMALE				10000 (2.07)	
		0	Y	02	10AWG MC4 MALE	01	10AWG H4 FEMALE	1	FUSED (3.5A)
				03	10AWG MC4 FEMALE				
				04	10AWG EVO2 MALE	02	10AWG MC4 MALE	2	FUSED (4A)
		1	x	05	10AWG EVO2 FEMALE				
				06	8AWG H4 MALE 03		10AWG MC4 FEMALE	3	FUSED (6A)
				07	8AWG H4 FEMALE	04	10AWG EVO2 MALE	4	FUSED (8A)
1500V			08	8AWG MC4 MALE					
			09	8AWG MC4 FEMALE	05	10AWG EVO2 FEMALE	5	FUSED (10A)	
29	OVERMOLD	-	T1-TOP	10	8AWG EVO2 MALE		10AWG BLUNT CUT	6	
JUNCTION	JUNCTION			11	8AWG EVO2 FEMALE	06			FUSED (12A)
		2		12	10AWG BLUNT CUT	07	10AWG H4 PLUS MALE	7	FUSED (15A)
				13	8AWG BLUNT CUT	07			
				14	10AWG H4 PLUS MALE	08	10AWG H4 PLUS FEMALE	8	FUSED (20A)
			15	10AWG H4 PLUS FEMALE					
			16	8AWG H4 PLUS MALE	09	10AWG PV4-S1 MALE	9	FUSED (25A)	
			17	8AWG H4 PLUS FEMALE					
		3	T2-BOT	18	10AWG PV4-S1 MALE	10	10AWG PV4-S1 FEMALE	А	FUSED (30A)
				19	10AWG PV4-S1 FEMALE		OTHER CONNECTORS	X	NO FUSE
				20	OTHER CONNECTORS	11		Х	
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Y Junction PN: 2200900 (323) Drop 10AWG H4 Male Trunk 8AWG MC4 Female -----





Ordering Information

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STANDARD PRODUCT		TYPE		TRUNK SIDE		DROP SIDE			
		0	Y	00	10AWG H4 MALE	00	10AWG H4 MALE		
				01	10AWG H4 FEMALE	01	10AWG H4 FEMALE		
				02	10AWG MC4 MALE	02	10AWG MC4 MALE		
				03	10AWG MC4 FEMALE	03	10AWG MC4 FEMALE		
				04	10AWG EVO2 MALE	04	10AWG EVO2 MALE		
		1	х	05	10AWG EVO2 FEMALE	05	10AWG EVO2 FEMALE		
22 OV				06	8AWG H4 MALE	06	8AWG H4 MALE		
				07	8AWG H4 FEMALE	07	8AWG H4 FEMALE		
				08	8AWG MC4 MALE	08	8AWG MC4 MALE		
	1500V			09	8AWG MC4 FEMALE	09	8AWG MC4 FEMALE		
	OVERMOLD JUNCTION		T1-TOP	10	8AWG EVO2 MALE	10	8AWG EVO2 MALE		
		2		11	8AWG EVO2 FEMALE	11	8AWG EVO2 FEMALE		
				12	10AWG BLUNT CUT	12	10AWG BLUNT CUT		
				13	8AWG BLUNT CUT	13	8AWG BLUNT CUT		
				14	10AWG H4 PLUS MALE	14	10AWG H4 PLUS MALE		
				. 15	10AWG H4 PLUS FEMALE	15	10AWG H4 PLUS FEMALE		
		3	T2-BOT	16	8AWG H4 PLUS MALE	16	8AWG H4 PLUS MALE		
				17	8AWG H4 PLUS FEMALE	17	8AWG H4 PLUS FEMALE		
				18	10AWG PV4-S1 MALE	18	10AWG PV4-S1 MALE		
				19	10AWG PV4-S1 FEMALE	19	10AWG PV4-S1 FEMALE		
				20	OTHER CONNECTORS	20	OTHER CONNECTORS		

03

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BALANCE OF SYSTEM (BOS) SOLUTION FOR PV WIRING HARNESSES

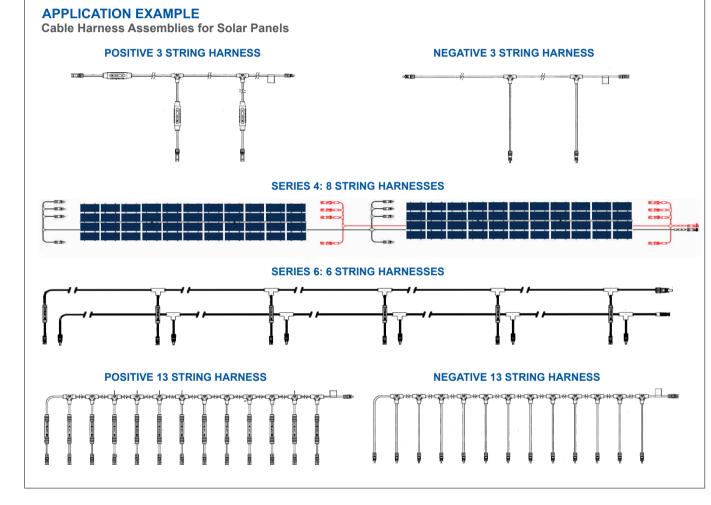
Solar projects require custom wire harness solutions. Amphenol TPI developed and certified a configurable product line to fit your project requirements and specifications.

Certifications

- UL9703 Listed Product
- UL4703 PV Wire
- UL4248 Overmolded Fuse
- UL6703 Connectors

Quality Inspection

- 100% Electrically Tested Point to Point
- Ensuring Each Harness is Defect Free
- Visual Inspection, Continuity Test, Resistance Check, Water Leakage test



CUSTOM HARNESSES

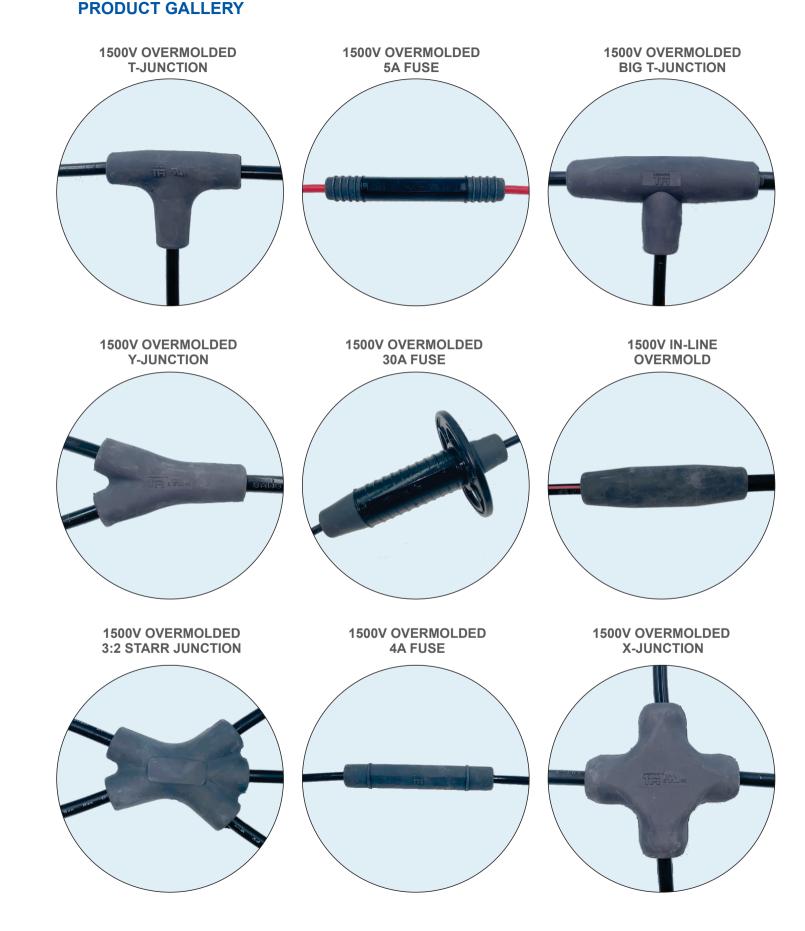
For custom solar wire harnesses for your project requirements, please contact ATPI's solar products team by referring to the contact Information section below.

CONTACT INFORMATION:

For further information on your individual application requirements or inquiries, please contact ATPI's solar products team:

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Email solar@tpil.com Websites www.amphenol-industrial.com www.tpil.com https://downloads.tpil.com/ (Contact us for login information)





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