



SOLAR PRODUCTS



Amphenol Technical Products International

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HeliosFuse **Features** • 1A to 30A current rating • 1500V (1000V compatible) • IP68 protection degree • Meets UL94-0V0 flammability rating HeliosFuse • UL4248-1 & UL4248-19 recognized • UL9703 listed Amphenol Technical Products International (ATPI) offers • RETIE compliance 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 ROBERT CONTROL OF LISTED 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.

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1500V HeliosFuse

Specifications

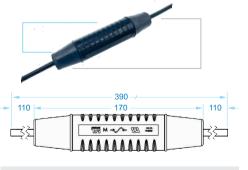
Description	1500V HeliosFuse					
Rated Voltage Fuse	1500V					
Rated Current Fuse	2.5A, 3.5A, 4A, 6A, 8A, 10A, 12A, 15A, 20A, 25A, 30A					
Connector Options	UL Listed Connectors: H4, H4 Plus, MC4, EVO2, PV4-S1					
Cable Size Options	12AWG or 10AWG or 8AWG 2kV PV Wire					
Ingress Protection Degree	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 FUSE/4A/12AWG/BLUNT CUT END TO END CABLE LENGTH 390MM (PART NUMBER: 2421000)

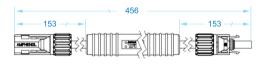
1500V 20A FUSE



1500V FUSE/20A/10AWG/BLUNT CUT END TO END CABLE LENGTH 390MM (PART NUMBER: **2480000**)

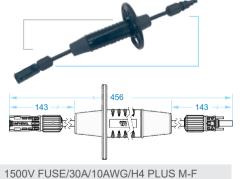
1500V 5A-15A FUSE





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

1500V 25A-30A FUSE



END TO END CABLE LENGTH 390MM FUSE SPACER INCLUDED (456MM REF OVERALL W/CONNECTORS) (PART NUMBER: 24A0050)

Ordering Information

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PV	WII	RE			Е

ı	PRODUCT RATED CURRENT			PV WIRE SIZE		END TERMINATION / CONNECTORS		END TO END CABLE LENGTH		CUSTOM LENGTH
		0	2.5 A	00 BLUNT CUT BOTH ENDS 01 BOTH ENDS PRESTRIPPED (8MM, SLUGS ON) 02 AMPHENOL H4 MALE TO H4 FEMALE (M-F) 03 MULTI CONTACT MC4 MALE TO FEMALE (M-F) 04 MULTICONTACT EVO2 MALE TO FEMALE (M-F)	10AWG	00	BLUNT CUT BOTH ENDS			
		1	3.5 A						STANDARD	
		2	4 A			01				
		А	5 A							
		3	6 A		12AWG	03	MULTI CONTACT MC4 MALE			
24	1500V	4	8 A							
24	HeliosFuse	5	10 A			04			CUSTOM	
		6	12 A		0		AMPHENOL H4 PLUS MALE TO FEMALE (M-F)			-X (MM)
		7	15 A			05				
		8	20 A	2		06	TYCO ELECTRONIC PV4-SI MALE TO FEMALE (M-F)			
		9	25 A	2	DAVVO		(12AWG/10AWG) OTHER CONNECTIONS			
		В	30 A			07				

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.

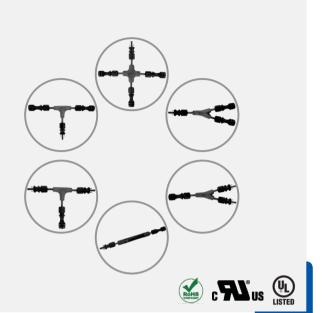
Amphenol Technical Products International maintains the highest standards for excellence. The 1500V overmolded solar junctions is just one of the cost effective solar solutions Amphenol Technical Products International has to offer.





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

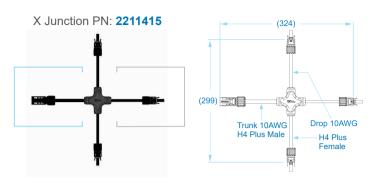


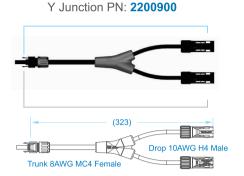
Specification

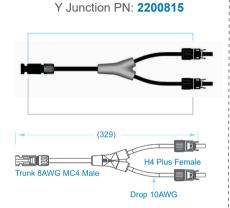
DC Current Rating	1500V (600V & 1000V Compatible)
Junction Current Rating	65A
Connector Options	H4/MC4/EVO2/H4 PLUS/PV4-S1
Cable Size Options	4AWG, 6AWG, 8AWG, 10AWG, 12AWG
Ingress Protection Degree	IP68 (1m Water/24hours)
Ambient Temperature Range	-40°C to 50°C
Material Safety	RoHS2 Compliant
Flammability Classifications	UL94-V0
Outdoor Suitability	UV Resistance, F1 Rated
Approvals	UL6703; UL4248-1; UL4248-18 Recognized UL9703 Listed

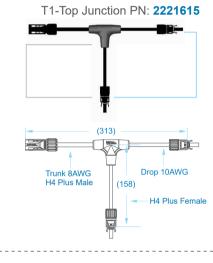
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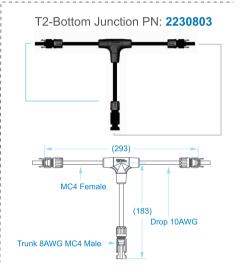
1500V Solar Junction







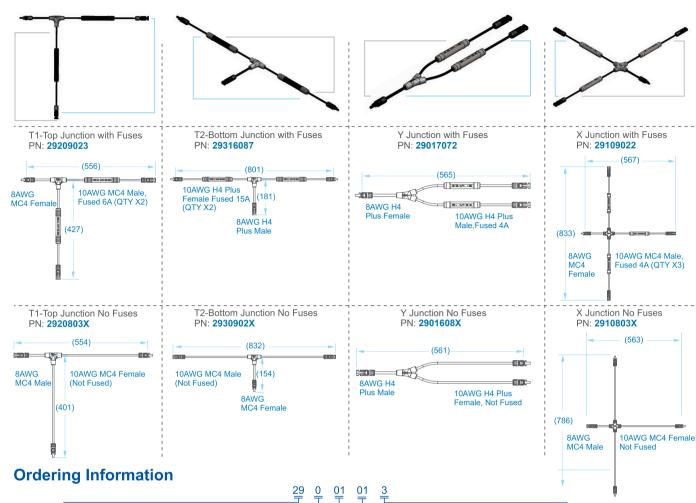




Ordering Information

raciii				22 	<u>0</u> <u>01</u> <u>03</u>			
STANE	DARD PRODUCT		TYPE		TRUNK SIDE		DROP SIDE	
			Y	00	10AWG H4 MALE	00	10AWG H4 MALE	
				01	10AWG H4 FEMALE	01	10AWG H4 FEMALE	
		0		02	10AWG MC4 MALE 02 10		10AWG MC4 MALE	
				03	10AWG MC4 FEMALE 03 10A		10AWG MC4 FEMALE	
				04	10AWG EVO2 MALE	04	10AWG EVO2 MALE	
			X	05	10AWG EVO2 FEMALE	05	10AWG EVO2 FEMALE	
				06	8AWG H4 MALE	06	8AWG H4 MALE	
		1		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	
22	OVERMOLD			10	8AWG EVO2 MALE	10	8AWG EVO2 MALE	
	JUNCTION			11	8AWG EVO2 FEMALE	11	8AWG EVO2 FEMALE	
			T4 T0D	12	10AWG BLUNT CUT	12	10AWG BLUNT CUT	
		2	T1-TOP	13	13 8AWG BLUNT CUT		8AWG BLUNT CUT	
				14	10AWG H4 PLUS MALE 14 1		10AWG H4 PLUS MALE	
				. 15	10AWG H4 PLUS FEMALE	15	10AWG H4 PLUS FEMALE	
			T2-BOT	16	8AWG H4 PLUS MALE	16	8AWG H4 PLUS MALE	
				17	8AWG H4 PLUS FEMALE 17		8AWG H4 PLUS FEMALE	
		3		18	10AWG PV4-S1 MALE	18	10AWG PV4-S1 MALE	
				19	9 10AWG PV4-S1 FEMALE 19 10AWG		10AWG PV4-S1 FEMALE	
				20	OTHER CONNECTORS	20	OTHER CONNECTORS	

1500V Solar Junction



STAND	STANDARD PRODUCT		TYPE	TRUNK SIDE			DROP SIDE	DROP WITH FUSES				
		0	Y	00	10AWG H4 MALE 10AWG H4 FEMALE	00	10AWG H4 MALE	0	FUSED (2.5A)			
				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)			
				05	10AWG EVO2 FEMALE		400000000000000000000000000000000000000		FUSED (6A)			
				06	8AWG H4 MALE	03	10AWG MC4 FEMALE	3				
		1	_x	07	8AWG H4 FEMALE	04	10AWG EVO2 MALE	4	FUSED (8A)			
				80	8AWG MC4 MALE	-			(0.1)			
	1500V			09	8AWG MC4 FEMALE	05	10AWG EVO2 FEMALE	5	FUSED (10A)			
29	OVERMOLD			10	8AWG EVO2 MALE		10AWG BLUNT CUT					
	JUNCTION			11	8AWG EVO2 FEMALE	06		6	FUSED (12A)			
		2	T1-TOP	12	10AWG BLUNT CUT	07	400000 114 51110 0401 5	_	FUOED (45A)			
		_	11-109	13	3 8AWG BLUNT CUT 07 10AWG H4 PLUS MALE	TUAWG H4 PLUS MALE	7	FUSED (15A)				
				14	10AWG H4 PLUS MALE	08	10AWG H4 PLUS FEMALE	8	FUSED (20A)			
				15	10AWG H4 PLUS FEMALE							
		3	T2-BOT	16	8AWG H4 PLUS MALE	09	10AWG PV4-S1 MALE	9	FUSED (25A)			
				17	8AWG H4 PLUS FEMALE		10AWG PV4-S1 FEMALE	А	FUSED (30A)			
				18	10AWG PV4-S1 MALE	10						
				19	10AWG PV4-S1 FEMALE	44	OTHER CONNECTS	· ·	NO FUOF			
				20	OTHER CONNECTORS	11	OTHER CONNECTORS	X	NO FUSE			

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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.

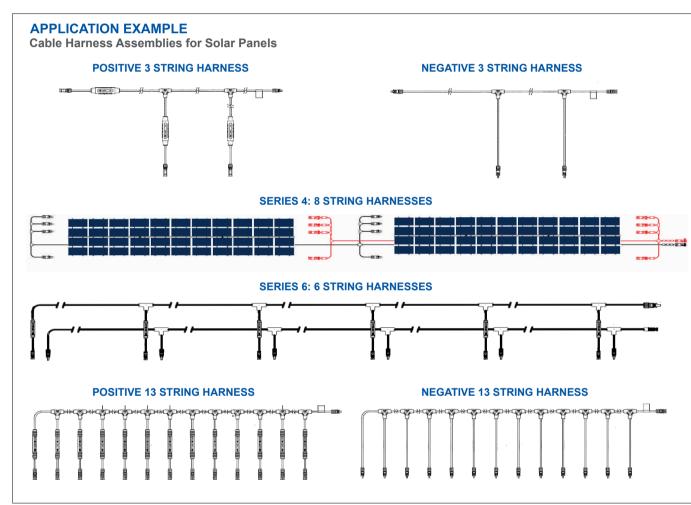
Certifications

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)

PRODUCT GALLERY

