



SOLAR PRODUCTS









HeliosFuse

Features

- 1A to 30A current rating
- 1500V (1000V compatible)
- IP68 protection degree
- Meets UL94-0V0 flammability rating
- UL4248-1 & UL4248-19 recognized
- UL9703 listed
- RETIE compliance

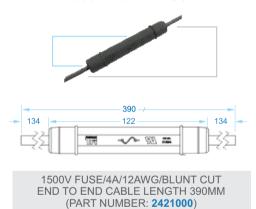


1500V HeliosFuse

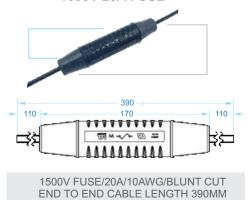
Specifications

| 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) |





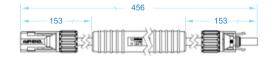
1500V 20A FUSE



(PART NUMBER: 2480000)

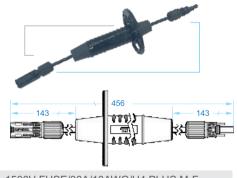
1500V 5A-15A FUSE





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



1500V FUSE/30A/10AWG/H4 PLUS M-F END TO END CABLE LENGTH 390MM FUSE SPACER INCLUDED (456MM REF OVERALL W/CONNECTORS) (PART NUMBER: **24A0050**)



Ordering Information

<u>01</u> **END TO PV WIRE PRODUCT RATED END TERMINATION CUSTOM ENDCABLE TYPE CURRENT SIZE** / CONNECTORS **LENGTH LENGTH** 0 2.5 A 00 **BLUNT CUT BOTH ENDS** 1 3.5 A 10AWG **BOTH END PRESTRIPPED** 01 (8MM, SLUGS ON) 2 4 A STANDARD 0 (390 MM) AMPHENOL H4 MALE TO 02 3 6 A H4 FEMALE (M-F) 4 8 A MULTI CONTACT MC4 MALE 03 TO FEMALE (M-F) 1500V 5 1 12AWG 24 10 A HeliosFuse MULTI CONTACT EVO2 MALE 04 TO FEMALE 6 12 A AMPHENOL H4 PLUS 7 15 A 05 MALE TO FEMALE (M-F) CUSTOM 1 -X (mm) 8 20 A TYCO ELECTRONIC PV4-S1 MALE TO FEMALE (M-F) 06 2 8AWG (12AWG/10AWG) 9 25 A OTHER CONNECTORS 07 Α 30 A

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.

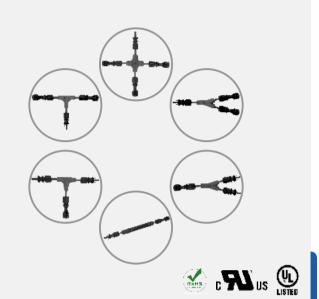
Amphenol Technical Products International maintains the highest standards for excellence. The 1500V overmolded solar junctions is just one of the cost effective solar solutions Amphenol Technical Products International has to offer.





Features

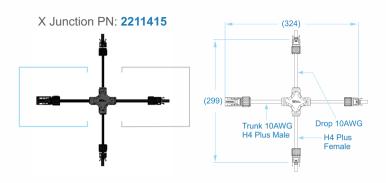
- 1500V DC Current Rating
- 4AWG, 6AWG, 8AWG, 10AWG, 12AWG, 14AWG cable options for 1500V
- IP68 ingress protection
- Long term UV resistance
- Ready for field assembly
- UL9703 listed & UL6703 approved
- Customer wiring harness services
- RETIE compliance

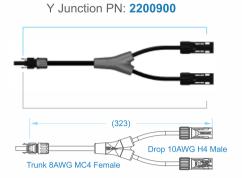


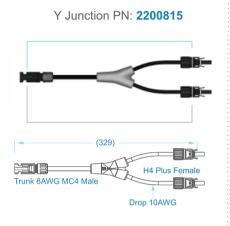
Specification

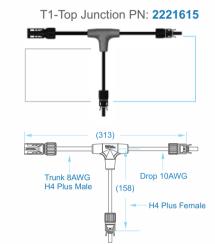
| DC Current Rating | 1500V (600V & 1000V Compatible) | | | | |
|------------------------------|--|--|--|--|--|
| Junction Current Rating | 65A | | | | |
| Connector Options | H4/MC4/EVO2/H4 PLUS/PV4-S1 | | | | |
| Cable Size Options | 4AWG, 6AWG, 8AWG, 10AWG, 12AWG | | | | |
| Ingress Protection Degree | 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 | | | | |

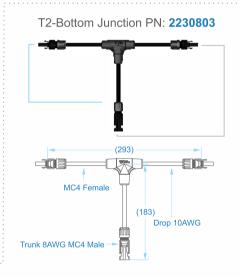
1500V Solar Junction









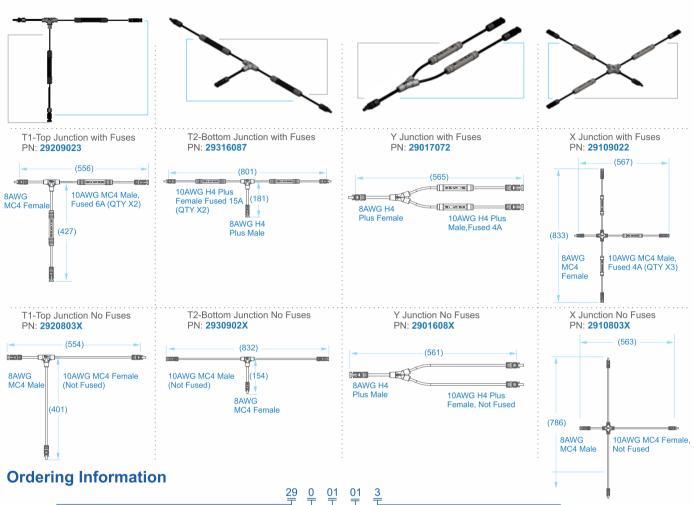


Ordering Information

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|--|-------------------------------|------|--------|----|----------------------|-----------|----------------------|--|
| STANDARD PRODUCT | | TYPE | | | TRUNK SIDE | DROP SIDE | | |
| | 1500V OVERMOLD JUNCTION | | Y | 00 | 10AWG H4 MALE | 00 | 10AWG H4 MALE | |
| | | 0 | | 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 | X | 05 | 10AWG EVO2 FEMALE | 05 | 10AWG EVO2 FEMALE | |
| | | | | 06 | 8AWG H4 MALE | 06 | 8AWG H4 MALE | |
| | | | | 07 | 8AWG H4 FEMALE | 07 | 8AWG H4 FEMALE | |
| | | | | 08 | 8AWG MC4 MALE | 08 | 8AWG MC4 MALE | |
| | | | | 09 | 8AWG MC4 FEMALE | 09 | 8AWG MC4 FEMALE | |
| 22 | | | T1-TOP | 10 | 8AWG EVO2 MALE | 10 | 8AWG EVO2 MALE | |
| | | | | 11 | 8AWG EVO2 FEMALE | 11 | 8AWG EVO2 FEMALE | |
| | | 2 | | 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 | |



1500V Solar Junction



| STANDARD PRODUCT TYPE | | | TRUNK SIDE | | DROP SIDE | | DROP WITH FUSES | | |
|-----------------------|----------------------|---|------------|----|----------------------|----------------|-------------------------|-----------|--------------|
| | 1500V 29 OVERMOLD | 0 | Y | 00 | 10AWG H4 MALE | 00 | 10AWG H4 MALE | 0 | FUSED (2.5A) |
| | | | | 01 | 10AWG H4 FEMALE | | | | (2.07.1) |
| | | | | 02 | 10AWG MC4 MALE | 01 | 10AWG H4 FEMALE | 1 | FUSED (3.5A) |
| | | | | 03 | 10AWG MC4 FEMALE | AWG MC4 FEMALE | | | |
| | | | | 04 | 10AWG EVO2 MALE | 02 | 10AWG MC4 MALE | 2 | FUSED (4A) |
| | | 1 | X | 05 | 10AWG EVO2 FEMALE | | 10AWG MC4 FEMALE | 3 | FUSED (6A) |
| | | | | 06 | 8AWG H4 MALE | 03 | | | |
| | | | | 07 | 8AWG H4 FEMALE | 04 | 10AWG EVO2 MALE | 4 | FUSED (8A) |
| | | | | 08 | 8AWG MC4 MALE | | | | |
| | | | | 09 | 8AWG MC4 FEMALE | | 10AWG EVO2 FEMALE | 5 | FUSED (10A) |
| 29 | | | T1-TOP | 10 | 8AWG EVO2 MALE | | | | |
| | JUNCTION | | | 11 | 8AWG EVO2 FEMALE | 06 | 10AWG BLUNT CUT | 6 | FUSED (12A) |
| | | 2 | | 12 | 10AWG BLUNT CUT | 0.7 | 40.0000 114 51110 00015 | - | EU0ED (45A) |
| | | | | 13 | 8AWG BLUNT CUT | 07 | 10AWG H4 PLUS MALE | 7 | FUSED (15A) |
| | | | | 14 | 10AWG H4 PLUS MALE | 08 | 10AWG H4 PLUS FEMALE | 8 | FUSED (20A) |
| | | | | 15 | 10AWG H4 PLUS FEMALE | | | | |
| | | | T2-BOT | 16 | 8AWG H4 PLUS MALE | 09 | 10AWG PV4-S1 MALE | 9 | FUSED (25A) |
| | | | | 17 | 8AWG H4 PLUS FEMALE | | 10AWG PV4-S1 FEMALE | | |
| | | 3 | | 18 | 10AWG PV4-S1 MALE | 10 | | Α | FUSED (30A) |
| | | | | 19 | 10AWG PV4-S1 FEMALE | 44 | | \ <u></u> | NO FUE |
| | | | | 20 | OTHER CONNECTORS | 11 | OTHER CONNECTORS | Х | NO FUSE |

BALANCE OF SYSTEM (BOS) SOLUTION FOR PV WIRING HARNESSES

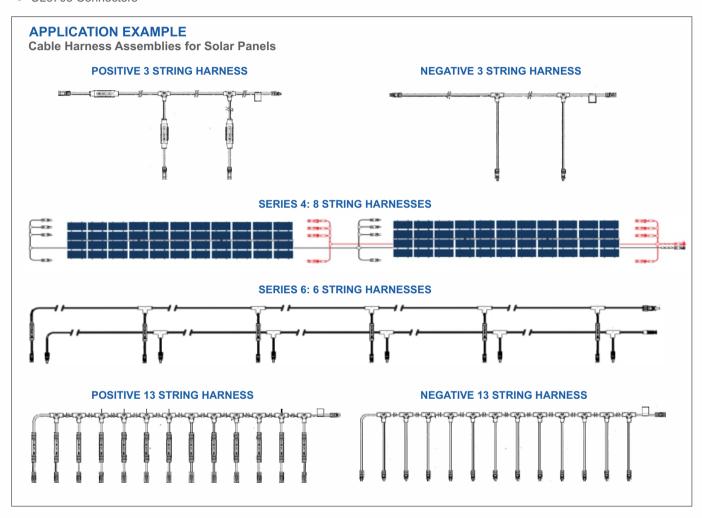
Solar projects require custom wire harness solutions. Amphenol TPI developed and certified a configurable product line to fit your project requirements and specifications.

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:

North America

Winnipeg, Manitoba, Canada Telephone +1 204 697-2222 Address: 2110 Notre Dame Avenue

Email solar@tpil.com

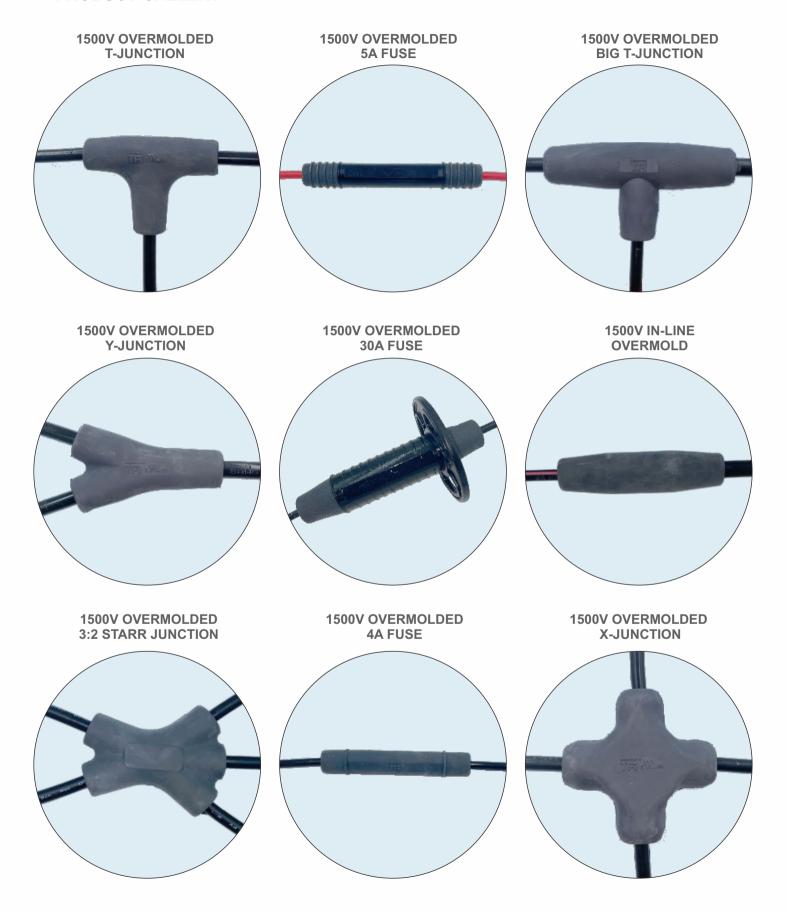
Websites www.amphenol-industrial.com

www.tpil.com

https://downloads.tpil.com/ (Contact us for login information)



PRODUCT GALLERY



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