



A Canadian Solar subsidiary

## T6 CONNECTOR

### PRODUCT OVERVIEW

T6 connectors use high quality materials that guarantee long-term reliability. Lower contact resistance and higher current transfer capability ensure high product efficiency. T6 connectors have IP68 water-proof rating and can be used in a wide operating temperature range from -40 °C to 90 °C.

### CERTIFICATIONS

UL 6703: CSA  
IEC 62852: TÜV-SÜD  
UKCA, RoHS, REACH, NEC, PAHS and Halogen-free compliant (no locking sleeve required)



Male connector (-)



Female connector (+)



### ELECTRICAL DATA

<b>Rated Voltage</b>	IEC 1500 V <sub>DC</sub> & UL1500 V <sub>DC</sub> IEC 1000 V <sub>DC</sub> & UL1500 V <sub>DC</sub>
<b>Rated Current</b>	41A (4 mm <sup>2</sup> ) / 40A (12 AWG) 48A (4 mm <sup>2</sup> ) / 40A (12 AWG) 50A (6 mm <sup>2</sup> ) / 55A (10 AWG) 54A (6 mm <sup>2</sup> ) / 55A (10 AWG)
<b>Contact Resistance</b>	≤ 0.25 mΩ
<b>Pollution Degree</b>	Class II
<b>Protection Class</b>	Class II
<b>Protection Degree</b>	IP68 (when mated)
<b>Fire Resistance</b>	UL 94-V0
<b>Temperature Range</b>	- 40 °C ~ + 90 °C
<b>Rated Impulse Voltage</b>	16 kV

### MECHANICAL DATA

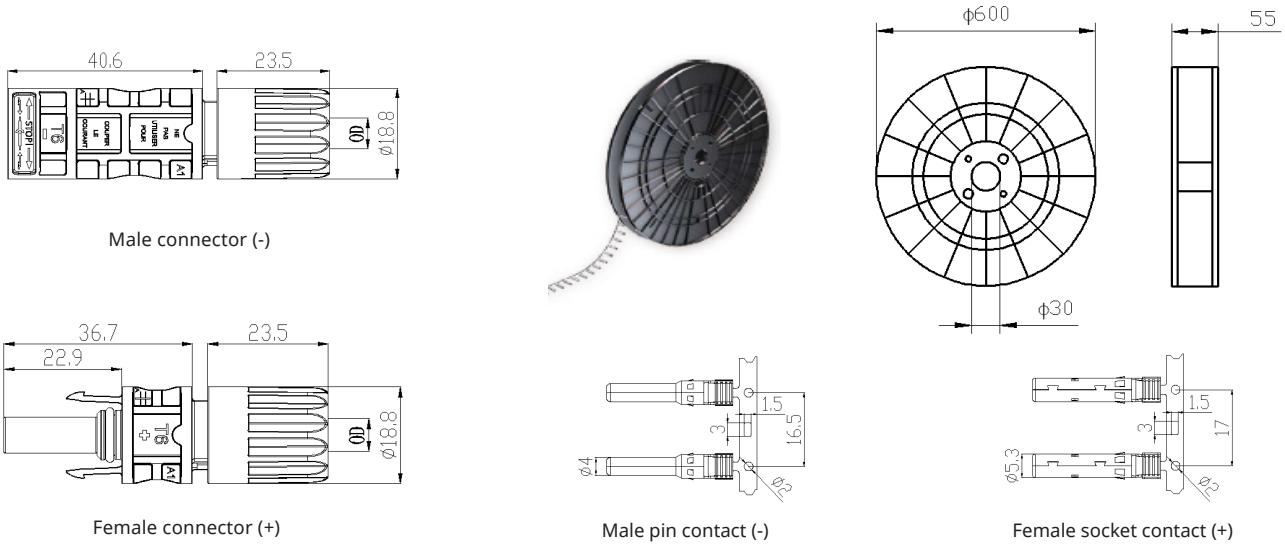
<b>Conductor Cross Section</b>	IEC: 4mm <sup>2</sup> / 6mm <sup>2</sup> ; UL: 10 AWG / 12 AWG
<b>Connector System</b>	Φ 4.0 mm
<b>Contact Material</b>	Copper, Tin-plated
<b>Type of Termination</b>	Crimping
<b>Locking System (UL)</b>	Locking type

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**ENGINEERING DRAWING (mm)**



**T6 ORDER INFORMATION**

Model	SAP Code	Suffix	Rated Voltage	Rated Current	Φ Cable OD	Cable Specification	Sealing Gasket
T6	11006743	1C	IEC 1500 V <sub>dc</sub>	IEC62852 41A/UL6703 40A	4.3-6.6mm	4mm <sup>2</sup> /12AWG;6mm <sup>2</sup> /10AWG	Standard
T6	11006748	2C	UL 1500 V <sub>dc</sub>	IEC62852 50A/UL6703 55A	6.7-7.5mm	6mm <sup>2</sup> /10AWG	Large
T6	11006742	3D	IEC 1000 V <sub>dc</sub>	IEC62852 48A/UL6703 40A	4.3-6.6mm	4mm <sup>2</sup> /12AWG;6mm <sup>2</sup> /10AWG	Standard
T6	11006834	4D	UL 1500 V <sub>dc</sub>	IEC62852 54A/UL6703 55A	6.7-7.5mm	6mm <sup>2</sup> /10AWG	Large

**ACCESSORIES ORDER INFORMATION**

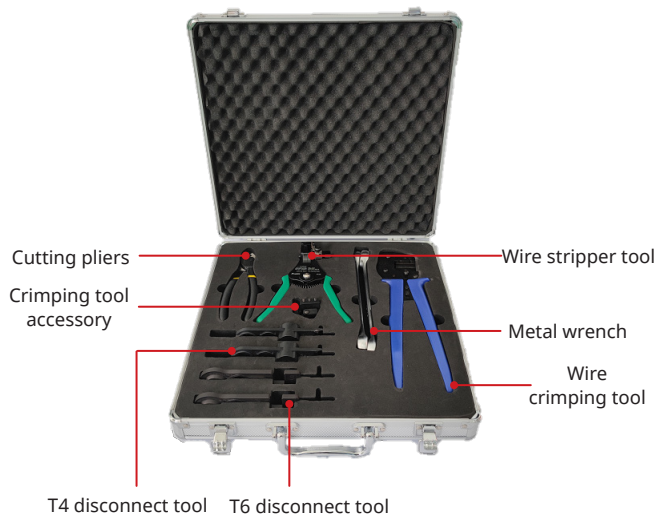
Product	SAP Code	Description	Packing Units
T6-DT	42059914	T6 Disconnect Tool	80 units or 400 units
EC	11006811/11006812	Connector End Cap	1000 or 5000 pairs
T6-MPC	74001904	T6 Male Pin Contact (-) In a Roll	4 Rolls (10000 units)
T6-FSC	74001905	T6 Female Socket Contact (+) In a Roll	4 Rolls (10000 units)
T6-MFC	74001903	T6 Male and Female Contact (-)/(+)	2000 or 10000 pairs
T6-TOOLKIT	42059915	T6 Field Installation Toolkit	1 unit

**T6-TOOLKIT COMPONENTS**

Wire stripper tool	1 piece
Wire crimping tool	1 piece
Cutting pliers	1 piece
T6 disconnect tool	2 pieces
Metal wrench	2 pieces
Crimping tool accessory	1 piece
T4 disconnect tool	2 pieces
Installation manual	1 copy

**T6-TOOLKIT SIZE**

Size	360×345×75 mm (14.2×13.6×2.9 in)
Weight	2.9kg (6.4 lbs)



**CAUTION:**

1. The exposure to or direct contact with chemicals or oils of T6 products may cause corrosion, degradation of performance, or cracking of the product, thus such exposure or direct contact should be strictly prohibited during the process of product manufacturing, transportation, installation and application. The chemicals that may come into contact with or be used in the process above, it is the user's responsibility to validate that such chemical will not affect the performance of T6 products.
2. Any T6 or T4 products can be intermated with each other.
3. Interconnection of different connector types/brands with T6 is not allowed.
4. Recycling and all other types of comparable disassembly of the above mentioned products have to be performed by a qualified waste management company, in compliance with national and local waste management regulations.