



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

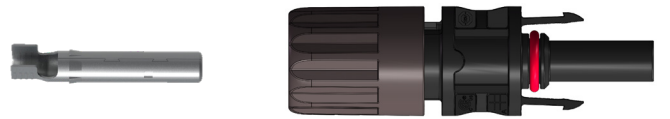
UL 6703: CSA

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><br>IEC 1000 V <sub>DC</sub> & UL1500 V <sub>DC</sub>   |
| <b>Rated Current</b>         | 41A (4 mm <sup>2</sup> ) / 40A (12 AWG)<br>48A (4 mm <sup>2</sup> ) / 40A (12 AWG)<br>50A (6 mm <sup>2</sup> ) / 55A (10 AWG)<br>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

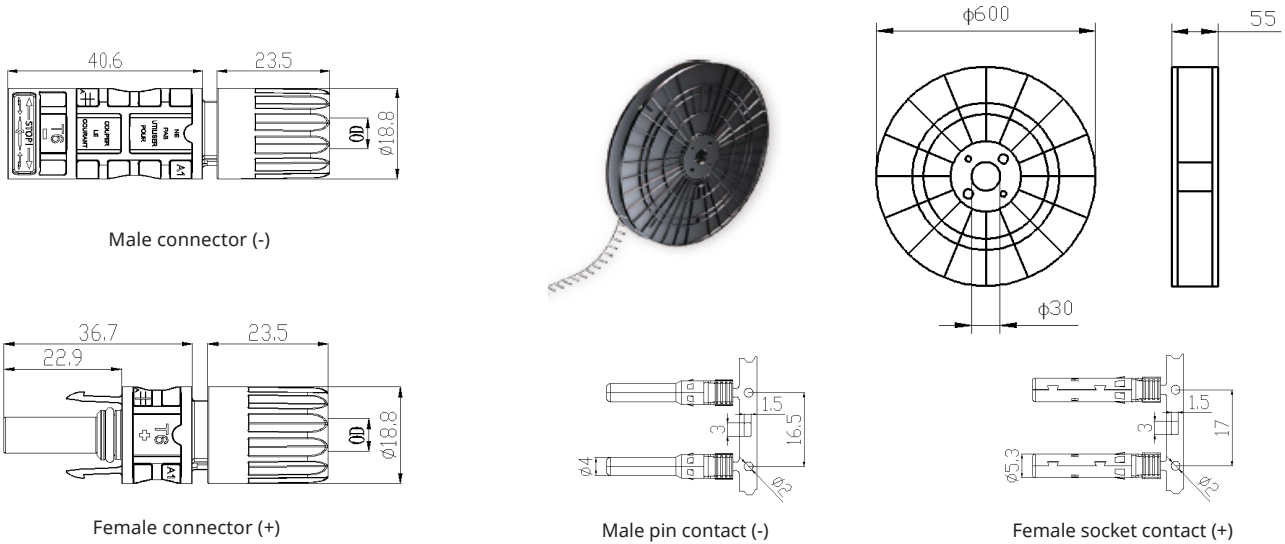
|                                |  |
|--------------------------------|--|
| <b>Conductor Cross Section</b> | IEC: 4mm <sup>2</sup> / 6mm <sup>2</sup> ; UL: 10 AWG / 12 AWG |
| <b>Connector System</b>        | Φ 4.0 mm   |
| <b>Contact Material</b>        | Copper, Tin-plated   |
| <b>Type of Termination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

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**ENGINEERING DRAWING (mm)**



Male connector (-)

Female connector (+)

Male pin contact (-)

Female socket contact (+)

**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**

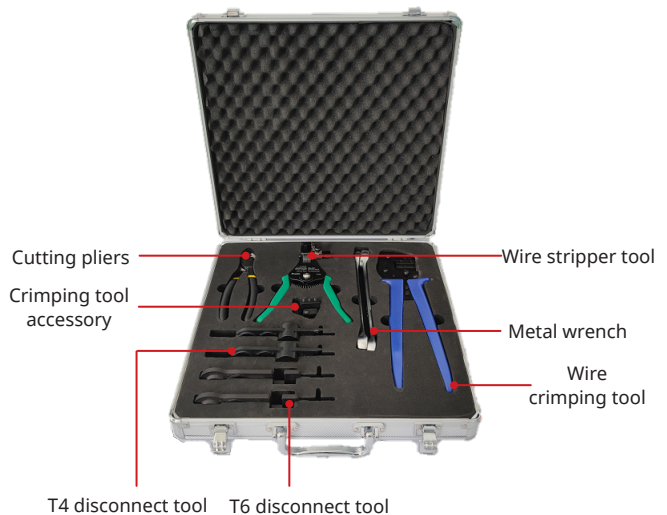
| Product    | Description                            | Packing Units         |
|------------|--|-----------------------|
| T6-DT      | T6 Disconnect Tool                     | 80 units or 400 units |
| EC         | Connector End Cap                      | 1000 or 5000 pairs    |
| T6-MPC     | T6 Male Pin Contact (-) In a Roll      | 4 Rolls (10000 units) |
| T6-FSC     | T6 Female Socket Contact (+) In a Roll | 4 Rolls (10000 units) |
| T6-MFC     | T6 Male and Female Contact (-)/(+)     | 2000 or 10000 pairs   |
| T6-TOOLKIT | 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)                  |



T4 disconnect tool T6 disconnect tool

**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.