



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 (+)



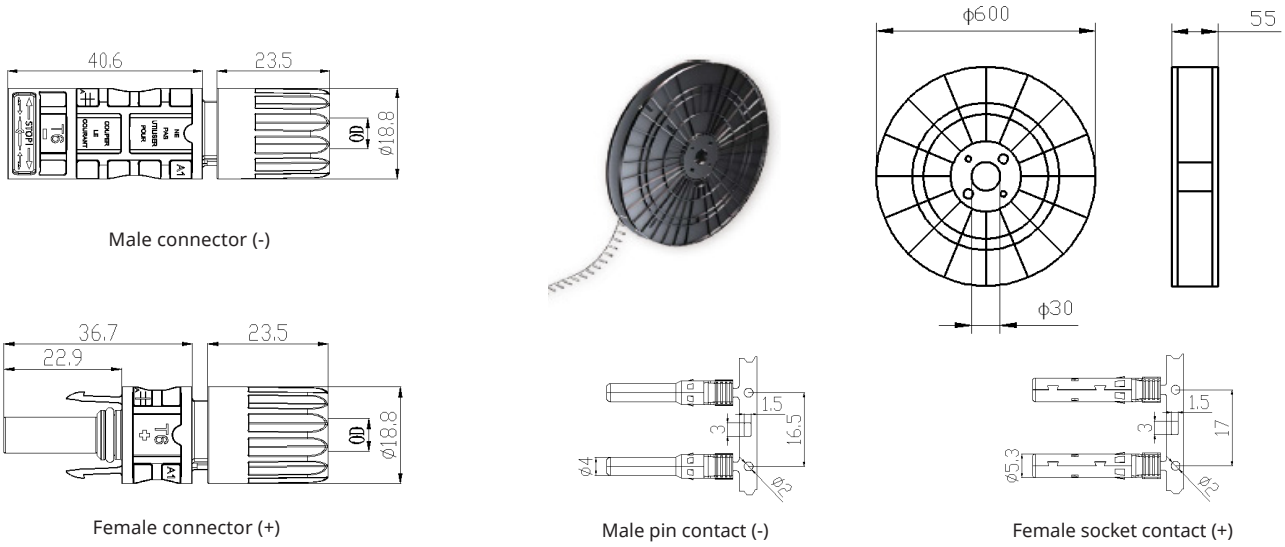
ELECTRICAL DATA

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

MECHANICAL DATA

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

ENGINEERING DRAWING (mm)



T6 ORDER INFORMATION

| Model | Suffix | Rated Voltage | Rated Current | Φ Cable OD | Cable Specification | Sealing Gasket | Packing Units |
|-------|--------|--------------------------|-------------------------|------------|---|----------------|------------------------|
| T6 | 1C | IEC 1500 V _{DC} | IEC62852 41A/UL6703 40A | 4.3-6.6mm | 4mm ² /12AWG;6mm ² /10AWG | Standard | 100 pairs or 500 pairs |
| T6 | 2C | UL 1500 V _{DC} | IEC62852 50A/UL6703 55A | 6.7-7.5mm | 6mm ² /10AWG | Large | |
| T6 | 3D | IEC 1000 V _{DC} | IEC62852 48A/UL6703 40A | 4.3-6.6mm | 4mm ² /12AWG;6mm ² /10AWG | Standard | |
| T6 | 4D | UL 1500 V _{DC} | IEC62852 54A/UL6703 55A | 6.7-7.5mm | 6mm ² /10AWG | Large | |

ACCESSORIES ORDER INFORMATION

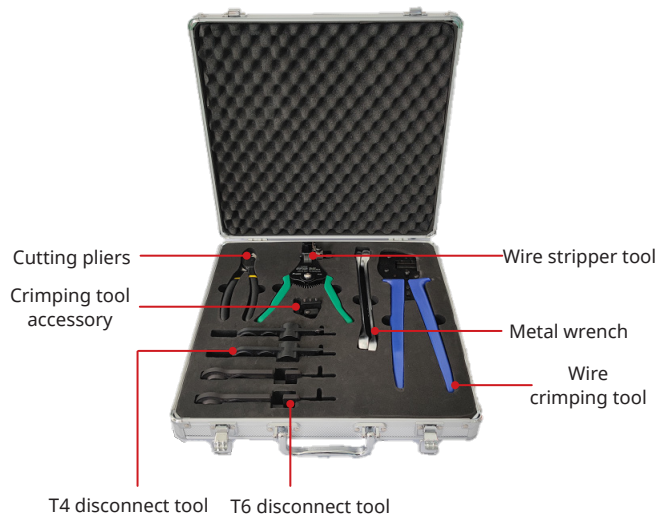
| Product | Description | Packing Units |
|------------|--|-----------------------|
| T6-DT | T6 Disconnect Tool | 80 units or 400 units |
| EC | Connector End Cap | 1000 or 5000 pairs |
| T6-MPC | T6 Male Pin Contact (-) In a Roll | 4 Rolls (10000 units) |
| T6-FSC | T6 Female Socket Contact (+) In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



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.

The specifications and features described in this datasheet may deviate slightly and are not guaranteed. Due to on-going innovation, research and product enhancement, Tlian reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein. The connector must be isolated and disconnected from the power supply during the assembly or disassembly process. Do not disconnect under load. The use of a PV cable is recommended. Avoid any grease or oils contacting the body of the T6 or T4 PV connector. Please read the safety and installation instructions before using the connector.