

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}
Rated Current ¹⁾	41A (4 mm ²) / 40A (12 AWG) 50A (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

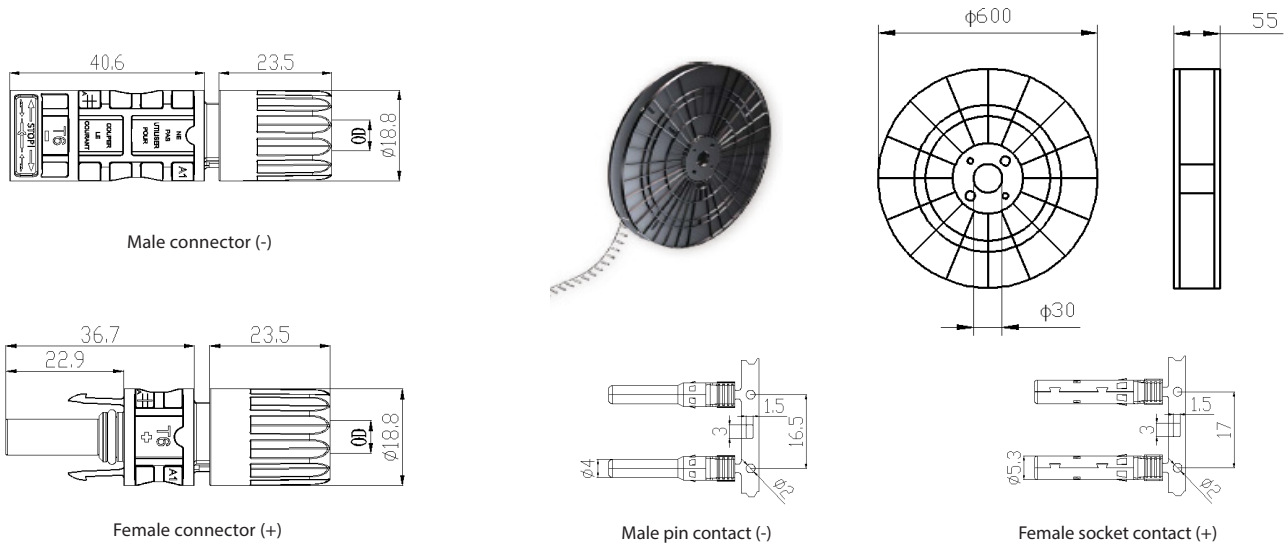
MECHANICAL DATA

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

1) Standard: UL6703, UL486A-486B, NFPA7(In Free Air), C22.2 No.182.5

Note: Installation in a free air run with a cable spacing not less than 100% of the largest cable diameter.

ENGINEERING DRAWING (mm)



T6 ORDER INFORMATION

Model	SAP Code	Φ Cable OD	Cable Specification	Packing Units
T6	11006743	4.3-6.9mm	4mm ² /12AWG 6mm ² /10AWG	100 pairs or 500 pairs

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 Connector (+)	11006747	C-UNASM/T6+/T2/U2/in bulk	2500 pieces
T6 Connector (-)	11006746	C-UNASM/T6-/T2/U2/in bulk	2500 pieces

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

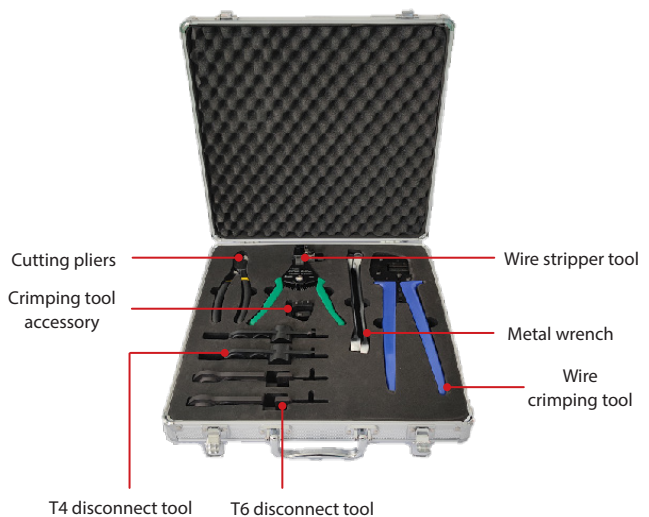
T6-TOOLKIT SIZE

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

The specifications and features described in this datasheet may deviate slightly and are not guaranteed. Due to on-going innovation, research and product enhancement, CS Power Systems Inc. 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.

CS Power Systems Inc.

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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.