

# Type C Charging Connector

**5A**  
High current  
charging

**SMT**  
6pin Vertical  
type

**>10000**  
Mating Cycle



## Features

- A one-stop interconnection solution that can satisfy data, power and A/V at the same time.
- The interface adopts reversible design.
- Support USB 2.0, USB 3.1 Gen 1 and USB 3.1 Gen 2 and other types.
- Up to 100W at 20V.
- Easily backward compatible with other USB connectors using conversion cables or adapters.

## Application

- It can be widely used in the charging connection base of household appliances.
- Charging dock that can be used for rechargeable children's toys.
- It can be widely used in the general charging of products in the low-end application market and has patent protection.



## Material

- Housing: LCP, Glass Fiber Filled Black, UL-94V-0
- Contact Terminal: Copper Alloy
- Shell: Stainless steel

## Electrical

1. A current of 5.0 A shall be applied collectively to VBUS pins (pins A4, A9, 84, and 89)
  2. 1.25 A applied to the VCONN pin (pins 85 of the plug connector) with the return path through the corresponding GND pins (pins A1, A12, B1, and 812).
  3. A minimum current of 0.25 A shall also be applied individually to all the other contacts.
1. Contact Resistance: 40mΩ Max (Initial), 50mΩ Max (After Test)
  2. Insulation resistance: 100MΩ Min  
Dielectric withstanding voltage: 100V AC for 1 minute between adjacent terminal, no breakdown

## Mechanical

- Durability: 10,000 Cycles  
Mating Force: 5 to 20N  
Unmating Force: 8 to 20N after testing

## Environmental and Processing

- Operating Temperature: -40°C to +80°C  
Solder Temperature: Peak temp 255°C (+5/-0°C) Maximum (5 seconds above 250°C)

