

# Waterproof USB TYPE C // Micro USB SMT Connector



GT Contact Co., Ltd.

## About GT Contact Waterproof Products

GT Contact's waterproof products are widely used in various kinds of customer application, which include marine equipment, networking device, outdoor LED display, lamp and lighting system, industrial PC, military NB, and medical equipment.

## Related Products

### USB 3.0 Plastic



### USB 3.0 Metal



### Micro USB 3.0 Plastic



### DUAL USB



### USB-Flash CAP



### HDMI



### SFP



Plastic USB Type C

Metal USB Type C

Micro USB SMT

## Features

- USB Type C 3.1 // Micro USB SMT Type
- Small Size
- Metal, Plastic // Plastic
- IP68 // IP67 protection degree

## Application

- Wearable product.
- Medical equipment.
- GPS, Positioning equipment
- Industrial PC, Military Equipment

## General Specification

Connector Type	USB Type C		Micro USB SMT Type	
	Max For others	Max for VBUS	Contacts No.2, No.3 & No.4	Contacts No.1 & No.5
Current Rating	0.25A	5A	0.5A	1.8A
Panel Mount Connector	-40°C / +85°C		-30°C / +85°C	

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### GT Contact's Related Waterproof Products

#### Hybrid Series



#### Sensor Series



#### I/O Series



#### Power Series



### Materials

Connector Type	USB TYPE C Plastic	USB TYPE C Metal	Micro USB SMT Type
Plastic Parts	PA66		LCP/PA9T
Metal Parts		Zn Alloy, Ni Plating	Copper Alloy, Ni Plating
Contact	Copper Alloy, Au Plating	Copper Alloy, Au Plating	Copper Alloy, Au Plating
Gasket	Silicone	Silicone	Silicone
Glue	Epoxy	Epoxy	Epoxy

### Electrical Characteristics

Insulation Resistance	DC100V±10%	DC100V±10%	DC500V±10%
Dielectric Withstanding Voltage	100V AC	100V AC	300V AC
Contact Resistance	500mΩ at 10mA Max	500mΩ at 10mA Max	30mΩ Max

### Mechanical Characteristics

Durability (cycles)	10,000	10,000	5,000
Physical Shock	EIA 364-27 Test Condition H or IEC 60512-6c	EIA 364-27 Test Condition H or IEC 60512-6c	
Random Vibration	EIA 364-28 Test or IEC 60512-6d	EIA 364-28 Test or IEC 60512-6d	EIA 364-28 ( Frequency : 50 to 2000 Hz)
Thermal Shock	5 Cycles at -40°C /+105°C	5 Cycles at -40°C /+105°C	10 Cycles at -55°C / +85°C
Salt Spray	EIA 364-26 or IEC 60512-11f	EIA 364-26 or IEC 60512-11f	EIA 364-26, 48 hours
Temperature Life	85°C for 96 Hours	85°C for 96 Hours	85°C for 96 Hours
Cycling Humidity	4 cycles at 25°C / +65°C 95%RH ( 1 cycles/day)	4 cycles at 25°C / +65°C 95%RH ( 1 cycles/day)	EIA-364-31
Ingress Protection Rate	IP67, Submersion in water 1 meter for 30 minutes.	IP68, Submersion in water 1 meter for 1 hr.	IP67, Submersion in water 1 meter for 30 minutes.