

Waterproof Signal Connector

Various Rugged Signal Solution



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



Features

- USB Type C 3.1/USB 3.0/Micro USB 3.0/HDMI/SFP series available
- Vary in size
- Plastic, metal or stainless steel construction
- IP67/IP68 protection degree
- Some with UL2238 approvals

Applications

- Wireless Outdoor AP
- Medical equipment
- Solar equipment
- GPS, Positioning equipment
- Industrial PC, Military equipment
- Outdoor LED display, Outdoor LED lighting

General Specification

Connector Type	USB TYPE C 3.1 Plastic		USB-A 3.0	Micro USB-B 3.0	HDMI	SFP
Current Rating	Max For others	Max for VBUS	2.1A	1A	0.5A	
	0.25A	5A				
Recommend AWG	32~34		22~28	24~28	28	
Panel Mount Connector	-40°C ~ +105°C					
Cable End Connector	-40°C ~ +80°C					

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GT Contact's Related Waterproof Products

Circular Series



Hybrid Series



Sensor Series



Power Series



Materials

Connector Type	USB TYPE C 3.1 Plastic	USB-A 3.0	Micro USB-B 3.0	HDMI	SFP
Plastic Parts	PPS / PA66				
Metal Parts	Zn Alloy, Ni Plating				
Contacts	Copper Alloy, Au Plating				
Gasket & O-ring	Silicone				
Glue	Epoxy				

Electrical Characteristics

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

Mechanical Characteristics

Durability (cycles)	10000	1500
Physical Shock	EIA 364-09 or IEC 60512-9a	EIA 364 27 Test Condition H (11ms 30G)
Random Vibration	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	
Salt Spray	EIA 364-26, 48 hours	
Temperature Life	85°C for 48Hours Method A , Mated	
Cycling Humidity	4 cycles at 25°C / +85°C 95%RH (1 cycles/day)	
Ingress Protection Rate	Plastic Conn: IP67, Submersion in water 1 meter for 30 minutes. Metal Conn: IP68, Submersion in water 1 meter for 24 hours.	

※ All materials are RoHS compliant.