

# Waterproof Sensor Connector

Robust Sensor/Actuator Connection 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

### Cable End (Molding)



### Cable End (Molding 90°)



### Cable End (Field Installable)



### Micro Tee adapter



### Termination Resistor



### Waterproof Cap



GT2311 series,  
M5 connector



GT2321 series,  
M8 connector



GT2612 series,  
Push-lock, M16,  
Stainless Steel



GT2341 series,  
M12 A-coding



GT2344 series,  
M12 D-coding

## Features

- M5/M8/M12/M16 series available
- Rugged metal or stainless construction
- Field installable type available
- Compliant with IEC 61076-2-xxx standard
- IP68 protection degree

## Applications

- Automation machine
- Medical equipment
- GPS, Positioning equipment
- Military NB
- Industrial PC
- Outdoor LED lighting

## General Specification

Connector Type	M5	M8	M12/M16		
Current Rating	1.0A	3.0A	4.0A	2.0A	1.5A
Recommend AWG	24~30	22~26	18~24	22~28	24~28
Temperature Range	-25°C / +85°C				

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### GT Contact's Related Waterproof Products

#### Circular Series



#### Hybrid Series



#### I/O Series



#### Power Series



### Materials

Plastic Parts	PA66
Metal Parts	Copper Alloy With Ni Plating (Screw) / Stainless Steel (Push Lock)
Contacts	Copper Alloy, Au Plating
Gasket & O-ring	Silicone
Glue	Epoxy

### Electrical Characteristics

Insulation Resistance	DC500V±10%
Dielectric Withstanding Voltage	<ul style="list-style-type: none"> <li>i. 1.0A: 900 V DC/AC peak</li> <li>ii. 1.5A: 500 V DC/AC peak</li> <li>iii. 2.0A: 650 V DC/AC peak</li> <li>iv. 4.0A: 2-4 pin:1400 V DC/AC peak; 5 pin:1000 V DC/AC peak, contact-to-contact, for 1 minute.</li> </ul>
Contact Resistance	10mΩ at 10mA Max.

### Mechanical Characteristics

Durability	4000 insertion/extraction cycles at a max. rate of 200cycles per hour.
Physical Shock	EIA 364 27 Test Condition H (11ms 30G)
Random Vibration	EIA 364-28 (Frequency : 50 to 2000 Hz)
Thermal Shock	5 cycles at -25°C / +85°C
Humidity Life	96 hours minimum (seven step cycles).
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	IP68, Submersion in water 1 meter for 24 hours.

※ All materials are RoHS compliant.