

# Waterproof Power Connector

Best High-Power Solution Choice



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

41A Cable End (Male)



41A Cable End (Female)



13A Cable End (Male)



13A Cable End (Female)



10A Cable End (Male)



10A Cable End (Female)



GT272 series  
13A/3P/Panel/Female

GT1E1400-42030  
41A/3P/Panel/Male

GT272 series  
10A/5P/Panel/Female

GT272 series  
13A/3P/Panel/Male

GT1E1401-42030  
41A/3P/Panel/Female

GT272 series  
10A/5P/Panel/Male

## Features

- Max. 41A current rated
- Easy Field Installation design
- Plastic, metal or stainless steel construction
- IP67(GT1E1 series)/IP68(GT272 series) protection degree
- UL2238 approvals

## Applications

- PV inverter
- Electric vehicle
- Interactive Smart Grid
- Automation machine
- Outdoor LED display
- Outdoor LED lighting

## General Specification

Product Series	GT1E1 series	GT272 series	
Current Rating	41A	13A	10A
Contact number	3 pin	3 pin	4 pin · 5 pin
Recommend AWG	8 AWG	16 AWG	
Voltage	600 V AC/DC		
Temperature Range	-40°C ~ +105°C		

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### GT Contact's Related Waterproof Products

#### Circular Series



#### Hybrid Series



#### Sensor Series



#### I/O Series



### Materials

Product Series	GT1E1 series	GT272 series
Thermal Plastic	PA66	PVC
Contacts	Copper Alloy with Ni Plating	Copper Alloy With Au Plated
Metal parts	-	Zinc Alloy With Ni Plated
Gasket & O-ring	Panel: Silicone Cable End: NBR	Panel: Viton Cable End: Silicone

### Electrical Characteristics

Insulation Resistance	DC 500V±10%	DC 1,000V±10%
Dielectric Withstanding Voltage	2,500 V AC	1,500 V AC
Contact Resistance	10mΩ at 10mA Max.	50mΩ

### Mechanical Characteristics

Durability	4000 insertion/extraction cycles at a max. rate of 200cycles per hour.
Cable Pull-Out	After the application of a steady state axial load of 40 N for one minute.
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 -40°C / +105°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	1. GT1E1 series: IP67, Submersion in water 1 meter for 30 minutes. 2. GT272 series: IP68, Submersion in water 1 meter for 24 hours.

※ All materials are RoHS compliant.