

GT CONTACT

Waterproof Connectors





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USB Series

Plastic Panel Mount USB Connectors

13

USB 3.1 TYPE-C PANEL JACK

MICRO USB-AB PANEL JACK

MINI USB-B PANEL JACK

USB-A PANEL JACK

USB-B PANEL JACK

USB-A 3.0 PANEL JACK

MICRO USB-B 3.0 PANEL JACK

Metal Panel Mount USB Connectors

16

USB 3.1 TYPE-C PANEL JACK

MICRO USB-AB PANEL JACK

MINI USB-B PANEL JACK

USB-A PANEL JACK

USB-A 3.0 PANEL JACK

Plastic Dual USB

19

DUAL USB 2.0 C4 SQUARE FLANGE PANEL JACK

DUAL USB-A PLASTIC C4 PANEL REAR MOUNT PANEL JACK

USB-A 3.0 + TYPE-C C4 PANEL SQUARE FLANGE DUAL-USB PANEL JACK

Plastic Cable End USB Connectors

20

USB 3.1 TYPE-C CABLE END

MICRO USB-B CABLE END

MINI USB-B CABLE END

USB-A PANEL CABLE END

USB-B PANEL CABLE END

USB-A 3.0 PANEL CABLE END

MICRO USB-B 3.0 CABLE END

Metal Cable End USB Connectors

23

USB 3.1 TYPE-C CABLE END

MICRO USB-B CABLE END

MINI USB-B CABLE END

USB-A CABLE END

USB-A 3.0 CABLE END

Plastic Cable to Cable USB Connectors

26

USB 3.1 TYPE-C CABLE TO CABLE

MICRO USB-AB CABLE TO CABLE

MINI USB-B CABLE TO CABLE

USB-A CABLE TO CABLE

USB-B CABLE TO CABLE

USB-A 3.0 CABLE TO CABLE

Metal Cable to Cable USB Connectors

28

USB 3.1 TYPE-C CABLE TO CABLE

Field Installable USB Connectors

29

USB-A PLASTIC FIELD INSTALLABLE

USB-A METAL FIELD INSTALLABLE

Caps for USB Connectors

30

PLASTIC CAPS

METAL CAPS

USB Accessories

32

USB FLASH DRIVE COVERS C3 AND C4

RJ45 Series

Plastic Panel Mount RJ45 Connectors

37

RJ45 PLASTIC SHIELDED PANEL JACK SCREW

RJ45 PLASTIC PANEL JACK SCREW

Metal Panel Mount RJ45 Connectors

38

RJ45 STAINLESS SHIELDED PANEL JACK SCREW

RJ45 METAL SHIELDED PANEL JACK SCREW

RJ45 METAL SHIELDED PANEL JACK LOCK

Plastic Cable End RJ45 Connectors

39

RJ45 PLASTIC SHIELDED CABLE END SCREW

RJ45 PLASTIC SHIELDED CABLE END 90° SCREW

RJ45 PLASTIC NON-SHIELDED CABLE END SCREW

Metal Cable End RJ45 Connectors

40

RJ45 METAL SHIELDED CABLE END SCREW WITH SHORT SCREW NUT

RJ45 STAINLESS SHIELDED CABLE END SCREW WITH SHORT SCREW NUT

RJ45 METAL SHIELDED CABLE END 90° SCREW WITH SHORT SCREW NUT

RJ45 METAL SHIELDED CABLE END SCREW WITH LONG SCREW NUT

RJ45 METAL SHIELDED CABLE END 90° SCREW WITH LONG SCREW NUT

Cable to Cable RJ45 Connectors

42

RJ45 PLASTIC CABLE TO CABLE SCREW

RJ45 METAL C3 SHIELDED CABLE TO CABLE JACK SCREW

Plastic Field Installable RJ45 Connectors

43

RJ45 PLASTIC FIELD INSTALLABLE CABLE END SCREW

RJ45 PLASTIC FIELD INSTALLABLE CABLE END SCREW WITHOUT PLUG

Metal Field Installable RJ45 Connectors

44

RJ45 FULL METAL FIELD INSTALLABLE CABLE END SCREW

RJ45 METALFIELD INSTALLABLE CABLE END SCREW

RJ45 METAL FIELD INSTALLABLE CABLE END SCREW WITHOUT PLUG

Caps for RJ45 Connectors

45

CAP PLASTIC FOR C3 SCREW PANEL

CAP PLASTIC FOR RJ45 C3 SCREW PANEL

CAP METAL FOR C3 SCREW PANEL

Sensor Series

M5 Metal Panel Mount Sensor Connectors

57

M5 PANEL FRONT MOUNT

M5 PANEL REAR MOUNT

M5 Metal Cable End Sensor Connectors

59

M5 CABLE END

M5 CABLE END 90° MALE

M8 Metal Panel Mount Sensor Connectors

60

M8 A-CODING PANEL FRONT MOUNT

M8 A-CODING PANEL REAR MOUNT

M8 B-CODING PANEL FRONT MOUNT

M8 B-CODING PANEL REAR MOUNT

M8 Metal Cable End Sensor Connectors

64

M8 A-CODING CABLE END

M8 A-CODING CABLE END 90°

M8 B-CODING CABLE END

M8 B-CODING CABLE END 90°

M8 A-CODING SHIELDED CABLE END

M8 B-CODING SHIELDED CABLE END

M12 Plastic Panel Mount Sensor Connectors

69

M12 A-CODING PLASTIC PANEL

M12 D-CODING PLASTIC PANEL

M12 Metal Panel Mount Sensor Connectors

70

M12 A-CODING PANEL FRONT MOUNT

M12 A-CODING PANEL FRONT MOUNT 90°

M12 A-CODING PANEL REAR MOUNT

M12 A-CODING PANEL FRONT/REAR MOUNT

M12 D-CODING PANEL FRONT MOUNT

M12 D-CODING PANEL REAR MOUNT

M12 X-CODING PANEL FRONT MOUNT

M12 A-CODING SHIELDED PANEL FRONT MOUNT

M12 D-CODING SHIELDED PANEL FRONT MOUNT

M12 Plastic Cable End Sensor Connectors

77

M12 A-CODING PLASTIC CABLE END

M12 A-CODING PLASTIC CABLE END 90°

M12 D-CODING PLASTIC CABLE END

M12 Metal Cable End Sensor Connectors

79

M12 A-CODING CABLE END

M12 A-CODING CABLE END 90°

M12 B-CODING CABLE END

M12 D-CODING CABLE END

M12 D-CODING CABLE END 90°

M12 X-CODING CABLE END

M12 A-CODING SHIELDED CABLE END

M12 A-CODING SHIELDED CABLE END 90°

M12 D-CODING SHIELDED CABLE END

M12 D-CODING SHIELDED CABLE END 90°

M12 Field Installable Cable End Sensor Connectors

84

M12 A-CODING FIELD INSTALLABLE CABLE END

M12 D-CODING FIELD INSTALLABLE CABLE END

Caps for Sensor Connectors

85

CAP FOR M5, M8, M12

D-Sub Series

Plastic Panel Mount D-Sub Connectors

91

D-SUB PANEL MOUNT SCREW

Plastic Cable End D-Sub Connectors

92

D-SUB CABLE END WITH CABLE SCREW

D-SUB DUAL CABLE END WITH CABLE SCREW

Plastic Field Installable D-Sub Connectors **93**

D-SUB FIELD INSTALLABLE CABLE END SOLDER

Caps for D-Sub Connectors **94**

CAP PLASTIC FOR D-SUB STAINLESS PANEL SCREW

Circular Series

C1 Panel Mount Circular Connectors **99**

PLASTIC C1 PANEL MOUNT LOCK

PLASTIC C1 PANEL REAR MOUNT LOCK

METAL C1 PANEL MOUNT LOCK

C2 Panel Mount Circular Connectors **100**

PLASTIC C2 PANEL MOUNT LOCK

PLASTIC C2 PANEL MOUNT SCREW

PLASTIC C2 PANEL REAR MOUNT LOCK

PLASTIC C2 PANEL MOUNT TWIST LOCK

C3 Panel Mount Circular Connectors **103**

PLASTIC C3 PANEL MOUNT LOCK

PLASTIC C3 PANEL MOUNT SCREW

PLASTIC C3 PANEL MOUNT TWIST LOCK

C4 Panel Mount Circular Connectors

105

PLASTIC C4 PANEL MOUNT LOCK

PLASTIC C4 PANEL MOUNT SCREW

C1 Cable End Circular Connectors

107

PLASTIC C1 CABLE END LOCK WITH CABLE

PLASTIC C1 CABLE END 90° LOCK WITH CABLE

METAL C1 CABLE END LOCK WITH CABLE

METAL C1 LOCK CABLE END 90° LOCK WITH CABLE

C2 Cable End Circular Connectors

108

PLASTIC C2 CABLE END LOCK WITH CABLE

PLASTIC C2 CABLE END 90° LOCK WITH CABLE

PLASTIC C2 CABLE END 90° KEY DOWN LOCK WITH CABLE

PLASTIC C2 CABLE END SCREW WITH CABLE

PLASTIC C2 CABLE END 90° SCREW WITH CABLE

C3 Cable End Circular Connectors

111

PLASTIC C3 CABLE END LOCK WITH CABLE

PLASTIC C3 CABLE END 90° LOCK WITH CABLE

PLASTIC C3 CABLE END SCREW WITH CABLE

PLASTIC C3 CABLE END 90° SCREW WITH CABLE

C4 Cable End Circular Connectors

113

PLASTIC C4 CABLE END LOCK WITH CABLE

PLASTIC C4 CABLE END MALE 90° LOCK

C1 Cable To Cable Circular Connectors 114

PLASTIC C1 CABLE TO CABLE LOCK WITH CABLE

C2 Cable To Cable Circular Connectors 114

PLASTIC C2 CABLE TO CABLE LOCK WITH CABLE

C3 Cable To Cable Circular Connectors 115

PLASTIC C3 CABLE TO CABLE LOCK WITH CABLE

PLASTIC C3 CABLE TO CABLE SCREW WITH CABLE

C4 Cable To Cable Circular Connectors 115

PLASTIC C4 CABLE TO CABLE LOCK WITH CABLE

C2 Field Installable Cable End Circular Connectors 116

PLASTIC C2 FIELD INSTALLABLE CABLE END LOCK

PLASTIC C2 FIELD INSTALLABLE CABLE END SCREW

C3 Field Installable Cable End Circular Connectors 117

PLASTIC C3 FIELD INSTALLABLE CABLE END LOCK

PLASTIC C3 FIELD INSTALLABLE CABLE END SCREW

C4 Field Installable Cable End Circular Connectors 118

PLASTIC C4 FIELD INSTALLABLE CABLE END SCREW

Field Installable Cable To Cable Circular Connectors 119

PLASTIC C2 FIELD INSTALLABLE CABLE TO CABLE LOCK

PLASTIC C3 FIELD INSTALLABLE CABLE TO CABLE LOCK

PLASTIC C3 FIELD INSTALLABLE CABLE TO CABLE SCREW

Caps for Circular Connectors 121

CAP PLASTIC C1 TO C4

Circular Accessories 122

SPANNER NUT AND SPANNER NUT TOOL

Push Lock Series

Metal Panel Mount Push Lock Connectors 127

S2 PANEL REAR MOUNT SOLDER

S2 PANEL SQUARE SOLDER

S2 PANEL SQUARE SOLDER WITH WIRE

S3 PANEL REAR MOUNT SOLDER

Metal Field Installable Cable End Push Lock Connectors 129

S2 FIELD INSTALLABLE CABLE END CRIMP

S3 FIELD INSTALLABLE CABLE END CRIMP

Caps for Push Lock Connectors 130

S2, S3 CAP FOR PANEL END

NMEA Series

Plastic Panel Mount NMEA Connectors 137

MICRO M12 PLASTIC A-CODING PANEL

MICRO M12 PLASTIC D-CODING PANEL

Metal Panel Mount NMEA Connectors

138

MICRO M12 METAL A-CODING PANEL MOUNT

MICRO M12 METAL A-CODING PANEL SHIELDING 90°

MICRO M12 METAL D-CODING PANEL

MINI METAL PANEL REAR MOUNT

MINI METAL PANEL REAR MOUNT WITH WIRE

MINI METAL PANEL FRONT MOUNT SQUARE FLANGE

Plastic Cable End NMEA Connectors

141

MICRO M12 PLASTIC A-CODING CABLE END WITH CABLE

MICRO M12 PLASTIC A-CODING CABLE END 90°WITH CABLE

MICRO M12 PLASTIC D-CODING CABLE END WITH CABLE

Metal Cable End NMEA Connectors

143

MICRO M12 METAL A-CODING CABLE END WITH CABLE

MICRO M12 METAL A-CODING CABLE END 90°WITH CABLE

MICRO M12 METAL D-CODING CABLE END WITH CABLE

MINI METAL CABLE END WITH CABLE

MINI METAL CABLE END 90°WITH CABLE

Field Installable Cable End NMEA Connectors

146

MICRO M12 METAL A-CODING FIELD INSTALLABLE CABLE END SCREW-IN

MICRO M12 METAL D-CODING FIELD INSTALLABLE CABLE END SCREW-IN

MINI METAL FIELD INSTALLABLE CABLE END SCREW-IN

Micro Tee NMEA Connectors & Resistors

148

2000 MICRO TEE PLASTIC

2000 MICRO TEE METAL

MICRO TEE 6 PORT METAL

MICRO PLASTIC TERMINATION RESISTORS

MICRO METAL TERMINATION RESISTORS

Caps for NMEA Connectors

150

CAP PLASTIC FOR MICRO M12

CAP PLASTIC FOR MINI

Magnetic Series

Panel Mount Magnetic Connectors

155

MAGNETIC ROTATING 360° PANEL SOLDER

Cable End Magnetic Connectors

155

MAGNETIC ROTATING 360° CABLE END WITH CABLE

MAGNETIC ROTATING 360° CABLE END 90° WITH CABLE

Caps for Magnetic Connectors

155

CAP RUBBER FOR 5A 2 CONTACTS PANEL SOLDER

DC Series

Plastic Panel Mount DC Connectors

161

DC 2.0MM PLASTIC PANEL JACK SOLDER SCREW

DC 2.5MM PLASTIC PANEL JACK SOLDER SCREW

Plastic Cable End DC Connectors

162

DC 2.0MM PLASTIC CABLE END WITH CABLE

DC 2.5MM PLASTIC CABLE END WITH CABLE

Plastic Field Installable DC Connectors

162

DC 2.0MM PLASTIC FIELD INSTALLABLE

DC 2.5MM PLASTIC FIELD INSTALLABLE

Plastic Cable to Cable DC Connectors

163

DC 2.0MM PLASTIC CABLE TO CABLE SCREW

DC 2.5MM PLASTIC CABLE TO CABLE SCREW

Caps for DC Connectors

164

CAP PLASTIC FOR C1 PANEL SCREW

Hybrid Series

Panel Mount Hybrid Connectors

173

C2 PLASTIC PANEL REAR MOUNT SOLDER LOCK (CODE A)

C2 PLASTIC PANEL REAR MOUNT SOLDER LOCK (CODE B)

C2 PLASTIC PANEL SOLDER LOCK

C3 PLASTIC PANEL SOLDER LOCK

C3 PLASTIC PANEL SOLDER SCREW

C4 PLASTIC PANEL SOLDER LOCK (CODE A)

C4 PLASTIC PANEL SOLDER LOCK (CODE B)

C5 PLASTIC PANEL TWIST LOCK

Cable End Hybrid Connectors

177

C2 PLASTIC CABLE END LOCK (CODE A)

C2 PLASTIC CABLE END LOCK (CODE B)

C3 PLASTIC CABLE END LOCK

C3 PLASTIC CABLE END SCREW

C3 PLASTIC CABLE END 90° LOCK

C4 PLASTIC CABLE END LOCK (CODE A)

C4 PLASTIC CABLE END LOCK (CODE B)

C5 PLASTIC CABLE END TWIST LOCK

Cable to Cable Hybrid Connectors

181

C3 PLASTIC CABLE TO CABLE LOCK WITH CABLE

C5 PLASTIC CABLE TO CABLE TWIST LOCK WITH CABLE

Field Installable Hybrid Connectors

182

C2 PLASTIC FIELD INSTALLABLE CABLE TO CABLE CRIMP LOCK

C3 PLASTIC FIELD INSTALLABLE CABLE TO CABLE CRIMP LOCK

Caps for Hybrid Connectors

183

CAP PLASTIC FOR HYBRID C2 TO C5

Power Series

Plastic Field Installable Panel Mount Power Connectors

189

M25 FIELD INSTALLABLE PANEL MOUNT PUSH LOCK

M35 FIELD INSTALLABLE PANEL MOUNT PUSH LOCK

Plastic Field Installable Cable End Power Connectors

190

M25 FIELD INSTALLABLE CABLE END PUSH LOCK

M35 FIELD INSTALLABLE CABLE END PUSH LOCK

Caps for Power Connectors

191

CAP FOR M25

Tool for Power Connectors

191

TOOL FOR POWER CONNECTORS

HDMI Series

Plastic Panel Mount HDMI Connectors 197

HDMI C4 PLASTIC PANEL JACK LOCK

Metal Panel Mount HDMI Connectors 197

HDMI C3 METAL PANEL JACK SCREW

Plastic Cable End HDMI Connectors 198

HDMI C4 PLASTIC CABLE END PLUG LOCK WITH CABLE

HDMI C4 PLASTIC CABLE END PLUG DUAL HEAD LOCK WITH CABLE

Metal Cable End HDMI Connectors 198

HDMI C3 METAL CABLE END PLUG SCREW WITH CABLE

HDMI C3 METAL CABLE END PLUG DUAL HEAD SCREW WITH CABLE

Caps for HDMI Connectors 199

CAPS FOR HDMI C3 TO C4

Snap-In Series

Panel Mount Snap-In Connectors 205

PLASTIC PANEL

PLASTIC PANEL WITH CABLE

Cable End Snap-In Connectors 206

PLASTIC CABLE END WITH CABLE

Cap for Snap-In Connectors 206

CAP FOR SNAP-IN

Miscellaneous

SIM / SD CARD Connectors

215

MICRO SIM CARD PLASTIC C3 PANEL JACK SCREW

MICRO SD CARD METAL C4 PANEL JACK SCREW

SAE Connectors

216

C4 SAE PANEL CONNECTOR LOCK TYPE

SFP MODULE

217

SFP METAL PANEL LOCK

SFP METAL FIELD INSTALLABLE CABLE END LOCK

CAP PLASTIC FOR SFP LOCK PANEL

Discover GT Contact

OUR VISION

- **Innovating for Reliability**
- **Ensuring Quality and Durability**
- **Collaboration and Teamwork**

ABOUT US

Established in 2008, GT Contact (GTC) has grown to become a premier manufacturer specializing in waterproof connectors. With state-of-the-art factories located in Shenzhen, China, and Taipei, Taiwan, GTC is dedicated to producing high-quality products that meet stringent industry standards, including TUV, ISO 9001, and ISO 14001 certifications.

In 2023, GTC expanded its capabilities by establishing a wholly owned subsidiary, Golrypeak Precision Co., Ltd. (GPC). GPC focuses on providing engineered cable and connector solutions, encompassing tooling design, plastic injection molding, and wire harness assembly. This strategic addition has further strengthened GTC's position in the market, enhancing its ability to deliver comprehensive and innovative solutions to its clients.

With a steadfast commitment to excellence and continuous improvement, GTC remains at the forefront of the industry, offering reliable and advanced products to meet the evolving needs of its customers.



ABOUT OUR PRODUCT



GT CONTACT CO., LTD

- **Diverse Range of Products**

GTC offers a wide range of waterproof connectors in IP67 and IP68 ratings.

- **Harsh Environment Resistance**

Designed to withstand challenging environments, ensuring reliability in tough conditions.

- **Customization is Available**

Whether you need a simple harness or a complex wiring system, we have the capability to design and manufacture custom cable looms that meet your exact specifications. Our customization service ensures that you receive a product that is optimized for your unique application, improving efficiency and performance.

- **Superior Waterproof Performance**

Our Advanced sealing and potting processes ensure effective protection against water ingress, maintaining connector integrity.

- **Various Materials Options**

Our connector materials are carefully selected to meet diverse application requirements. The majority of our plastic connectors are manufactured using high-performance polyamide 66 (PA66), known for its excellent mechanical strength and chemical resistance. For metal connectors, we primarily utilize zinc and copper alloys, offering a balance of durability and conductivity. Select models feature various grades of stainless steel, providing enhanced corrosion resistance and structural integrity for demanding environments. We collaborate closely with our clients to determine the most suitable connector materials based on specific application needs or custom requirements, ensuring optimal performance and longevity of the final product.



APPLICATION

Marine

The marine industry, encompassing everything from leisure boats to commercial shipping and naval defense, operates in one of the most challenging environments on Earth. The omnipresence of water, particularly saltwater, poses a constant threat to electrical systems.

This is where waterproof connectors come into play, serving as a critical component in ensuring the reliability and safety of marine operations.

Application: Navigation and Communication Systems, Engine Controls, Safety Equipment, and more.



Robotic

In the rapidly evolving world of robotics, the integration of waterproof connectors has become a cornerstone for advancing technology. These connectors play a pivotal role in enhancing the durability and functionality of robots, especially those operating in harsh environments.

Application: Search and Rescue Operations, Agriculture Robotics, Industrial Automation, Medical Robotics, and so on.

Energy

The energy industry, a sector that is the backbone of modern civilization, is continually pushing the boundaries of innovation and efficiency. A critical yet often overlooked component in this pursuit is the waterproof connector. These connectors are essential in ensuring that energy generation, transmission, and distribution systems remain operational in the face of environmental challenges.

Application: Renewable Energy Systems, Power Grid Infrastructure, Electric Vehicles (EVs), Oil and Gas Exploration, etc.



Automotive

The automotive industry is undergoing a significant transformation, with advancements in vehicle technology leading to smarter, safer, and more efficient cars. At the heart of this evolution lies a seemingly small but crucial component: the waterproof connector.

These connectors are vital in ensuring the seamless operation of various electrical systems within vehicles, particularly in challenging environments.

Application : Engine Compartment, Lighting Systems, Electronic Control Units and the like .



Defense & Military

In the Defense and Military industry, the reliability of equipment is paramount. Waterproof connectors play a crucial role in maintaining the functionality and safety of military hardware, especially in moisture-prone environments. These connectors are designed to withstand the rigors of military use, including exposure to water, extreme temperatures, and rough handling.

Application: Soldier Connectivity, Naval Operations, Aerospace and Aviation, Ground Vehicles, etc.



Industrial Machinery

The automation industry heavily relies on precision and reliability. Systems subject to constant motion, such as robotic arms, conveyor belts, and CNC machines, must operate flawlessly to maintain efficiency and safety standards. Here, waterproof connectors come into play by ensuring that the critical signals between sensors, actuators, and control systems remain uninterrupted by environmental strains.

Application: Actuator, Robotic arms, Warehouse equipments and so others .



Design Guide

Definition of IP Rating

1st Number: Protection against ingress of solid objects	
IP	Test
0	Non-protected
1	Protected against solid objects of 50 mm (1.968) and greater
2	Protected against solid objects of 12.5 mm (.492) and greater
3	Protected against solid objects of 2.5 mm (.098) and greater
4	Protected against solid objects of 1 mm (.039) and greater
5	Dust-protected (no harmful ingress)
6	Dust-tight (no ingress)

2nd Number: Protection against liquids	
IP	Test
0	Non-protected
1	Protected against vertically falling water drops
2	Protected against vertically falling water drops when enclosure tilted up to 15°
3	Protected against water sprayed vertically at an angle up to 60°
4	Protected against splashing water
5	Protected against water jets from any direction
6	Protected against powerful water jets
7	Protected against the effects of temporary immersion in water
8	Protected against the effects of continuous immersion in water (depth x to be specified)

IP69K test according to DIN 40050 / part 9

- Cycle of 30 seconds
- 14 - 16 liters per minute
- Water 80°C

The goal of this test is to simulate pressure cleaning conditions on a plant floor. In the test fixture, the switches were exposed to a water jet of 80 - 100 bar at a temperature of 80°C.

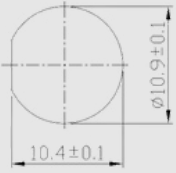
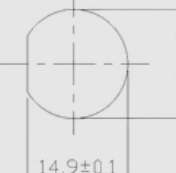
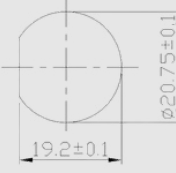
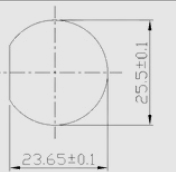
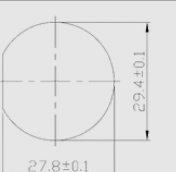
The duration of each cleaning cycle was 30 seconds. The test was performed with a spray nozzle located at defined angles and at a distance of 10 - 15 cm from the sensor.







The high protection rating guarantees absolute ingress-resistance, even in applications subject to frequent cleaning processes, e.g., in the food industry.

Test conditions:

- Test with fan nozzle
- Test unit on turntable (5 revolutions/minute)
- Spray angles 0°, 30°, 60° and 90°
- Distance of nozzle to test unit 100 - 150 mm
- Spray quantity 14 to 16 liters/min.
- Water pressure about 8,000- 10,000 kPa at $+(80 \pm 5)^\circ\text{C}$ with a duration of 30 seconds per position.
- Water aimed at the housing with increased pressure from each direction must not have any damaging effect.

Material Options		
IP Rating	Type	Material
IP67	Plastic Type	PA66
IP68	Metal Type	Zinc Alloy/ Copper Alloy/ SUS/ AL

Panel Cut-Out Size : C1-C5		
C1	C2	C3
		
Circular C1, DC	Circular C2, USB, Hybrid	Circular C3, USB, RJ, HDMI, Hybrid
C4	C5	
		
C4, USB, HDMI, Hybrid	Hybrid	

Mating Mechanism		
Screw	Lock	Twist Lock
		
Snap-In	Push Lock	Magnetic
		

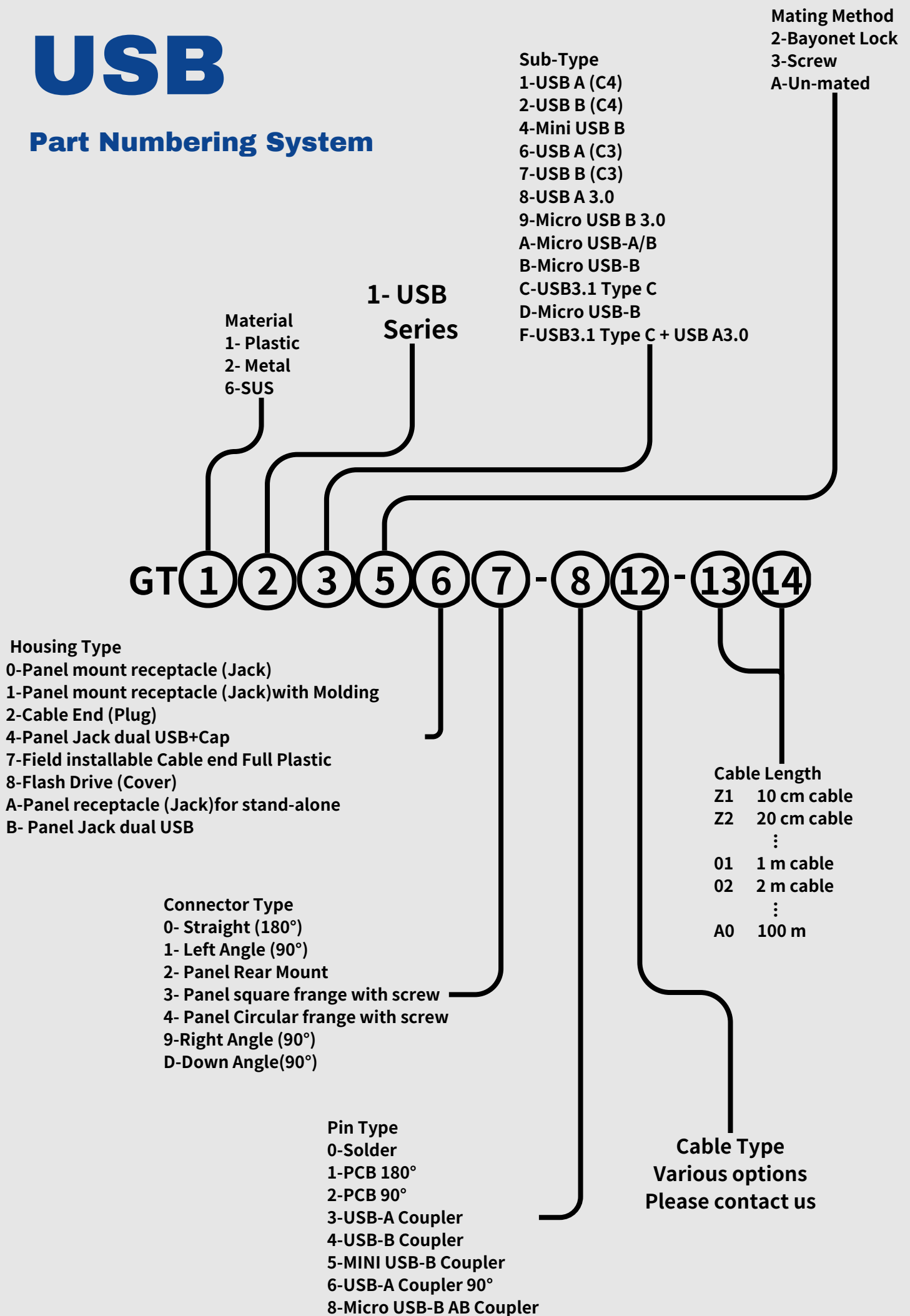
Installation Guide: Check on our website www.gtcontact.com
 Declaration: ROHS, REACH, ISO 9001, ISO14001, check on our website www.gtcontact.com
 UL E326935 / E364108, check on the website : <https://iq.ulprospector.com/en>

USB SERIES



USB

Part Numbering System



Specifications

USB 2.0 Plastic/Metal Engineering Specifications			
Specifications			
Current Rating	2.1A		
AWG Gauge	22 AWG~28 AWG		
Operation Temperature	With Cable -40°C / +85°C		
	Without Cable -40°C / +105°C		
IP Rating	Plastic	IP67	
	Metal	IP68	
Product Technical Data			
Characteristics	Standard	Description	
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the USB Specification.	
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC500V±10% , test for 1 minute and the insulation resistance should be more than1000MΩ	
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	500 V DC/AC peak, contact-to-contact, for 1min. 750 V DC/ AC peak, contact-to-test panel or contact-to-shield for 1 min.	
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	30mΩ at 10mA Max.	
Insertion and withdrawal forces	IEC60512,13b	Speed: 10 mm/s maximum. Insertion:35 N maximum at a maximum rate of 12.5 mm(0.492") per minute. Withdrawal:10 N minimum at a maximum rate of 12.5 mm(0.492") per minute.	
Durability	EIA 364-09 or IEC 60512-9a	Plastic	Screw type 1500 cycles ,rate of 200 cycles per hour. Lock type 200 cycles,rate of 200 cycles per hour.
		Metal	Screw type 1500 cycles ,rate of 200 cycles per hour.
Cable Pull-Out	EIA 364-38 Test Condition A or IEC 60512-13a	After the application of a steady state axial load of 40 N for one minute.	

Product Technical Data

Characteristics	Standard	Description	
Cable Flexing	EIA 364-41	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle, the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles, test withstanding voltage and insulation	
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μs or longer duration when mated USB connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.	
Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms	
Thermal Shock	EIA 364-32 Test Condition A or IEC 60512-11d	Plastic	5 cycles at -40°C / +105°C, after the test, the function and appearance can't be impacted.
	EIA 364-32 Test Condition VIII or IEC 60512-11d	Metal	
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h, Temperature of the pressure barrel is 43°C, LAB temperature is 35°C, relative humidity of LAB is 95%~98%, test time is 48hr, after the test, check if there is rusty and oxidized phenomenon	
Waterproof Test	IEC 60529	Plastic	Under 1 M water for 30 Min.
		Metal	Under 1 M water for 24 Hr.
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours .	
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours	
Temperature Humidity Cycling	EIA 364-31, Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)	
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (±3) °C Black Panel Temperature 4 h Condensation at 50 (±3) °C Black Panel Temperature	

Specifications

USB 3.0 Plastic/Metal Engineering Specifications			
Specifications			
Current Rating	2.1A		
AWG Gauge	22 AWG~28 AWG		
Operation Temperature	With Cable -40°C / +85°C		
	Without Cable -40°C / +105°C		
IP Rating	Plastic	IP 67	
	Metal	IP 68	
Product Technical Data			
Characteristics	Standard	Description	
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the USB Specification.	
Insulation Resistance	EIA 364-21 or IEC 60512-4a	Plastic	DC500V±10%, test for 1 minute and the insulation resistance should be more than 1000MΩ
	EIA 364-21 or IEC 60512-3a	Metal	DC500V±10%, test for 1 minute and the insulation resistance should be more than 10MΩ
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	Plastic	500 V DC/AC peak, contact-to-contact, for 1min. 500 V DC/ AC peak, contact-to-test panel or contact-to-shield for 1 min.
		Metal	100 V DC/AC peak, contact-to-contact, for 1min. 100 V DC/ AC peak, contact-to-test panel or contact-to-shield for 1 min.
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	30mΩ at 10mA Max.	
Insertion and withdrawal forces	IEC60512,13b	Speed: 10 mm/s maximum. Insertion:35 N maximum at a maximum rate of 12.5 mm(0.492") per minute. Withdrawal:10 N minimum at a maximum rate of 12.5 mm(0.492") per minute.	

Product Technical Data

Characteristics	Standard	Description	
Durability	EIA 364-09 or IEC 60512-9a	Plastic	2000 cycles insertion/extraction cycles at a maximum rate of 200 cycles per hour.
		Metal	Screw type 2000 cycles, rate of 200 cycles per hour.
Physical Shock	EIA 364 27 Test Condition H	No discontinuities of 1 μ s or longer duration when mated USB connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.	
Vibration	EIA 364-28 or IEC 60512-4a	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms	
Thermal Shock	EIA 364-32 Test Condition A or IEC 60512-11d	5 cycles at -40°C / +105°C , after the test, the function and appearance can't be impacted.	
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h , Temperature of the pressure barrel is 43°C , LAB temperature is 35°C , relative humidity of LAB is 95%~98% , test time is 48hr , after the test, check if there is rusty and oxidized phenomenon	
Waterproof Test	IEC 60529	Plastic	Under 1 M water for 30 Min.
		Metal	Under 1 M water for 24 Hr.
Temperature Life	EIA364-17Condition 4	Plastic	85°C for 48Hours Method A , Mated
	EIA364-17 Condition 3 or IEC 60512-9b	Metal	85°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31 , Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)	
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (\pm 3) °C Black Panel Temperature 4 h Condensation at 50 (\pm 3) °C Black Panel Temperature	

Specifications

Type C Plastic / Metal Engineering Specifications		
Specifications		
Current Rating	5A Max For VBUS 0.25A Max For Others	
AWG Gauge	32/24 AWG	
Operation temperature	With Cable -40°C / +85°C	
	Without Cable -40°C / +105°C	
IP Rating	Plastic	IP 67
	Metal	IP 68
Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the Type C Specification.
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC100V±10%, test for 1 minute and the insulation resistance should be more than5MΩ
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	100 VDC/AC peak, contact-to-contact, for 1min.
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	50mΩ at 10mA Max.
Insertion and withdrawal forces	IEC60512,13b	Speed: 12.5 mm/s maximum per minute. Insertion:5~20N Withdrawal:8~20N
Durability	EIA 364-09 or IEC 60512-9a	Screw type 1500 cycles ,rate of 200 cycles per hour.
Cable Pull-Out	EIA 364-38 Test Condition A or IEC 60512-13a	After the application of a steady state axial load of 40 N for one minute.

Product Technical Data		
Characteristics	Standard	Description
Cable Flexing	EIA 364-41	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle , the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles , test withstanding voltage and insulation resistance.
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μs or longer duration when mated Type C connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.
Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Thermal Shock	EIA 364-32 Test Condition A or IEC 60512-11d	5 cycles at -40°C / +105°C , after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (Nacl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h, Temperature of the pressure barrel is 43°C, LAB temperature is 35°C , relative humidity of LAB is 95%~98%, test time is 48hr, after the test, check if there is rusty and oxidized phenomenon.
Waterproof Test	IEC 60529	Plstic Under 1 M water for 30 Min.
		Metal Under 1 M water for 24 Hr.
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31 , Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (±3) °C Black Panel Temperature 4 h Condensation at 50 (±3) °C Black Panel Temperature

Specifications

Micro USB 2.0 / Mini USB Plastic / Metal Engineering Specifications			
Specifications			
Current Rating	Micro USB 2.0	1.0A(Per Contact) 1.8A (contacts No. 1 and 5) 0.5A (contacts No. 2, 3, and 4)	
	Mini USB	1.0A	
AWG Gauge	Micro USB 2.0	Micro USB: 20 AWG~28 AWG	
	Mini USB	Mini USB: 22 AWG~28 AWG	
Operation Temperature	With Cable -40°C / +85°C		
	Without Cable -40°C / +105°C		
IP Rating	Plastic	IP 67	
	Metal	IP 68	
Product Technical Data			
Characteristics	Standard	Description	
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the Micro/Mini USB Specification.	
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC500V±10% , test for 1 minute and the insulation resistance should be more than 10MΩ	
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	Micro USB 2.0	100 V DC/AC peak, contact-to-contact, for 1min. 100 V DC/ AC peak, contact-to-test panel or contact-to-shield for 1 min.
		Mini USB	100 V DC/AC peak, contact-to-contact, for 1min. 150 V DC/ AC peak, contact-to-test panel or contact-to-shield for 1 min.
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	50mΩ at 10mA Max.	
Insertion and withdrawal forces	IEC60512,13b	Micro USB 2.0	Speed: 10 mm/s maximum. Insertion force 35 N maximum Withdrawal force 8N(initial)
		Mini USB	Speed: 10 mm/s maximum. Insertion force 35 N maximum Withdrawal force 7N(initial), 3N after (5,000 cycles) minimum.

Product Technical Data

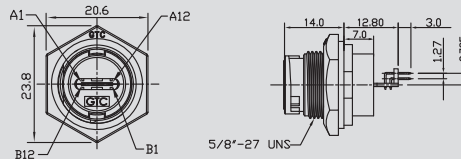
Characteristics	Standard	Description	
Durability	EIA 364-09 or IEC 60512-9a	Micro USB 2.0 / Mini USB	Lock type 200 cycles ,rate of 200 cycles per hour
		Mini USB	Screw type 5000 cycles ,rate of 200 cycles per hour.
Cable Pull-Out	EIA 364-38 Test Condition A or IEC 60512-13a	After the application of a steady state axial load of 40 N for one minute.	
Cable Flexing	EIA 364-41	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle , the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles , test withstanding voltage and insulation resistance.	
Physical Shock	EIA 364-27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μs or longer duration when mated Micro/Mini USB connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.	
Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms	
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C , after the test, the function and appearance can't be impacted.	
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h, Temperature of the pressure barrel is 43°C , LAB temperature is 35°C , relative humidity of LAB is 95%~98% , test time is 48hr , after the test, check if there is rusty and oxidized phenomenon.	
Waterproof Test	IEC 60529	Plastic	Under 1 M water for 30 Min.
		Metal	Under 1 M water for 24 Hr.
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours	
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours	
Temperature Humidity Cycling	EIA 364-31 , Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)	
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (± 3) °C Black Panel Temperature 4 h Condensation at 50 (± 3) °C Black Panel Temperature	

Specifications

Micro USB 3.0 Plastic Engineering Specifications		
Specifications		
Current Rating	1A Max For VBUS 0.5A Max For Others	
AWG Gauge	28/24AWG	
Operation Temperature	With Cable -40°C / +85°C	
	Without Cable -40°C / +105°C	
IP Rating	IP 67	
Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the Micro USB Specification.
Insulation Resistance	EIA 364-21 or IEC 60512-4a	DC100V±10% , test for 1 minute and the insulation resistance should be more than100MΩ
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	100 V DC/AC peak, contact-to-contact, for 1min. 100 V DC/ AC peak, contact-to-test panel or contact-to-shield for 1 min.
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	30mΩ at 10mA Max.
Insertion and withdrawal forces	EIA 364-13	Speed: 10 mm/s maximum. Insertion:35 N maximum at a maximum rate of 12.5 mm(0.492") per minute. Withdrawal:10 N minimum at a maximum rate of 12.5 mm(0.492") per minute.
Durability	EIA 364-09 or IEC 60512-9a	2000 cycles insertion/extraction cycles at a maximum rate of 200 cycles per hour.
Physical Shock	EIA 364 27 Test Condition H	No discontinuities of 1 μs or longer duration when mated USB connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.

Product Technical Data		
Characteristics	Standard	Description
Cable Pull-Out	EIA 364-41 Test Condition A	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle, the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles , test withstanding voltage and insulation resistance
Vibration	EIA 364-28 or IEC 60512-4a	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Thermal Shock	EIA 364-32 Test Condition A or IEC 60512-11d	EIA 364-32 Test Condition A or IEC 60512-11d
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h, Temperature of the pressure barrel is 43°C, LAB temperature is 35°C, relative humidity of LAB is 95%~98%, test time is 48hr, after the test, check if there is rusty and oxidized phenomenon.
Waterproof Test	IEC 60529	Under 1 M water for 30 Min.
Temperature Life	EIA364-17 Condition 4	85°C for 48Hours Method A , Mated
Temperature Humidity Cycling	EIA 364-31, Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)
UV Exposure	ASTM G154-06 Operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (± 3) °C Black Panel Temperature 4 h Condensation at 50 (± 3) °C Black Panel Temperature

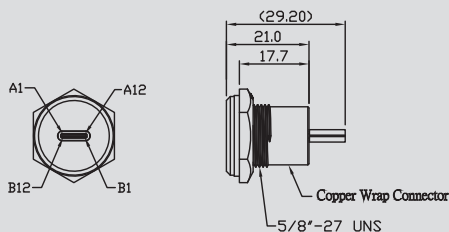
USB 3.1 Type-C Plastic C2 Panel Jack Lock



P/N	Product
GT11C200-10	Dip Pin
GT11C200-20	Dip Pin 90°
GT11C200-30	with Type-C Coupler
GT11C200-01-XX	with Cable + Type-C Plug
GT11C200-02-XX	with Cable + Type-C Jack
GT11C200-03-XX	with Blunt Cut Cable
GT11C200-04-XX	with Cable + USB-A 3.0 Plug
GT11C200-08-XX	with Cable + Micro USB-B Plug

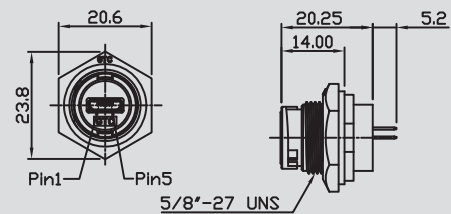
P/N	Product
GT11C200-09-XX	with Cable + Type-C Plug Right Angle Right / Left

USB 3.1 Type-C Plastic C2 Flush Mount Panel



P/N	Product
GT11C401-30	with Type-C Coupler
GT11C401-01-XX	with Cable + Type-C Plug

Micro USB-AB Plastic C2 Panel Jack Lock

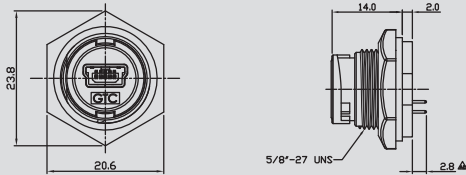


P/N	Product
GT11A200-10	Dip Pin
GT11A200-80	with Micro USB-AB Coupler
GT11A200-03-XX	with Blunt Cut Cable
GT11A200-05-XX	with Cable + USB-A Plug
GT11A200-06-XX	with Cable + USB-A Jack
GT11A200-0P-XX	with Cable + Micro USB-B Plug
GT11A200-0U-XX	with Cable + Micro USB-B Plug 90° (right)
GT11A200-0S-XX	with Cable + Micro USB-B Plug 90° (Left)

PLASTIC PANEL MOUNT

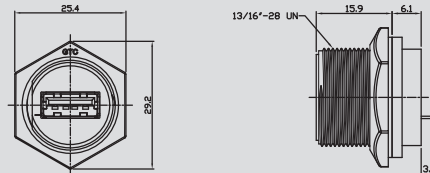
USB

Mini USB-B Plastic C2 Panel Jack Lock



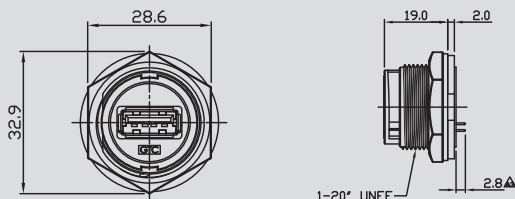
P/N	Product
GT114200-10	Dip Pin
GT114200-20	Dip Pin 90°
GT114200-50	with Mini USB-B Coupler
GT114200-03-XX	with Blunt Cut Cable
GT114200-05-XX	with Cable + USB-A Plug
GT114200-06-XX	with Cable + USB-A Jack
GT114200-07-XX	with Cable + Mini USB-B Plug
GT114200-08-XX	with Cable + USB-B Jack
GT114200-09-XX	with Cable + USB-B Plug
GT114200-0P-XX	with Cable + Micro USB-B Plug

USB-A Plastic C3 Panel Jack Screw



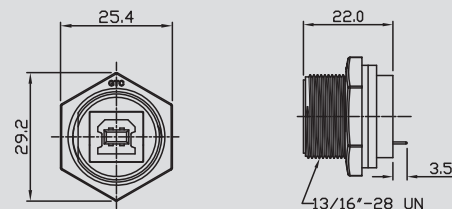
P/N	Product
GT116300-10	Dip Pin
GT116300-20	Dip Pin 90°
GT116300-30	with USB-A Coupler
GT116300-03-XX	with Blunt Cut Cable
GT116300-05-XX	with Cable + USB-A Plug
GT116300-06-XX	with Cable + USB-A Jack
GT116300-07-XX	with Cable + Mini USB-B Plug
GT116300-08-XX	with Cable + Mini USB-B Jack
GT116300-09-XX	with Cable + USB-B Plug
GT116300-0M-XX	Dual USB-A Plastic C3 Panel Jack Screw with Cable
GT116300-0P-XX	with Cable + Micro USB-B Plug

USB-A Plastic C4 Panel Jack Lock



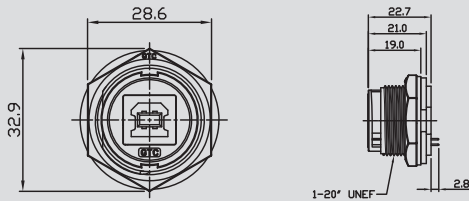
P/N	Product
GT111200-10	Dip Pin
GT111200-30	with USB-A Coupler
GT111200-40	with USB-B Coupler
GT111200-03-XX	with Blunt Cut Cable
GT111200-05-XX	with Cable + USB-A Plug
GT111200-06-XX	with Cable + USB-A Jack
GT111200-09-XX	with Cable + USB-B Plug
GT111200-0P-XX	with Cable + Micro USB-B Plug

USB-B Plastic C3 Panel Jack Screw



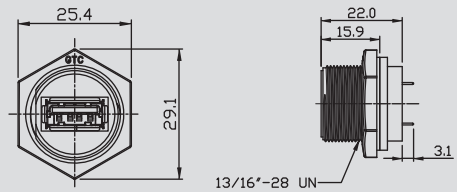
P/N	Product
GT117300-10	Dip Pin
GT117300-03-XX	with Blunt Cut Cable
GT117300-06-XX	with Cable + USB-A Jack
GT117300-07-XX	with Cable + Mini USB-B Plug
GT117300-09-XX	with Cable + USB-B Plug

USB-B Plastic C4 Panel Jack Lock



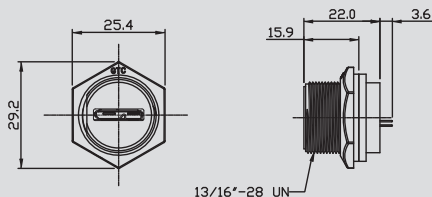
P/N	Product
GT112200-10	Dip Pin
GT112200-30	with USB-A Coupler
GT112200-40	with USB-B Coupler
GT112200-03-XX	with Blunt Cut Cable
GT112200-07-XX	with Cable + Mini USB-B Plug
GT112200-09-XX	with Cable + USB-B Plug

USB-A 3.0 Plastic C3 Panel Jack Screw



P/N	Product
GT118300-10	Dip Pin
GT118300-20	Dip Pin 90°
GT118300-30	with USB-A 3.0 Coupler
GT118300-35	with USB-A 3.0 Coupler Cross wiring
GT118300-01-XX	with Blunt Cut Cable
GT118300-02-XX	with Cable + USB-A 3.0 Plug
GT118300-03-XX	with Cable + USB-A 3.0 Jack
GT118300-05-XX	with Cable + USB-B 3.0 Plug
GT118300-09-XX	with Cable + USB-B Plug
GT118300-0A-XX	with Cable + USB-A 3.0 Plug Right Angle Right
GT118300-0C-XX	with Cable + Type-C Plug
GT118300-0L-XX	with Cable + USB-A 3.0 Plug Right Angle Left
GT118300-0V-XX	with Cable + USB Type-C Plug Up/Down Angle

Micro USB-B 3.0 Plastic C3 Panel Jack Screw

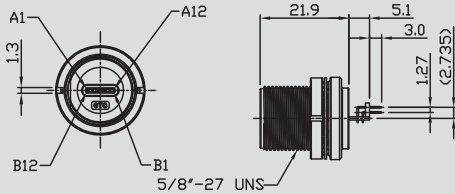


P/N	Product
GT119300-10	Dip Pin
GT119300-80	with Micro USB-B 3.0 Coupler
GT119300-02-XX	with Cable + USB-A 3.0 Plug
GT119300-04-XX	with Cable + Micro USB-B 3.0 Plug
GT119300-07-XX	with Cable + Micro USB-B 3.0 Jack
GT119300-08-XX	with Cable + Micro USB-B Plug
GT119300-0C-XX	with Cable + USB Type-C 3.1 Plug

METAL PANEL MOUNT

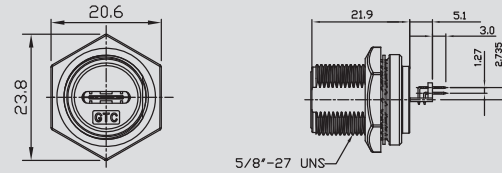
USB

USB 3.1 Type-C Stainless C2 Panel Jack Screw



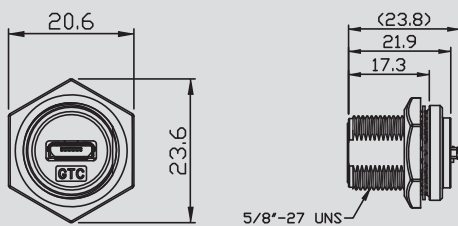
P/N	Product
GT61C300-10(S)	Dip Pin + Spanner Nut
GT61C300-20(S)	Dip Pin 90° + Spanner Nut
GT61C300-01-XX(S)	with Cable + Type-C Plug + Spanner Nut

USB 3.1 Type-C Metal C2 Panel Jack Screw



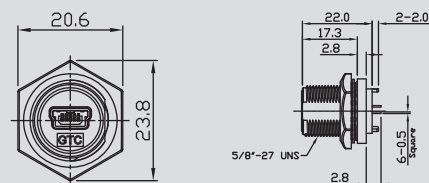
P/N	Product
GT21C300-10	Dip Pin
GT21C300-20	Dip Pin 90° (2.2mm Pin)
GT21C300-21	Dip Pin 90° (3.0mm Pin)
GT21C300-30	with Type-C Coupler
GT21C300-01-XX	with Cable + Type-C Plug
GT21C300-02-XX	with Cable + Type-C Jack
GT21C300-03-XX	with Blunt Cut Cable
GT21C300-04-XX	with Cable + USB-A 3.0 Plug
GT21C300-06-XX	with Cable + USB-A 3.0 Jack
GT21C300-09-XX	with Cable + Type-C Plug Right/Left Angle
GT21C300-0D-XX	with Cable + USB 3.1 Type-C Plug Up/Down Angle
GT21C300-0M-XX	Dual Head USB 3.1 Type-C Jack Screw with Cable

Micro USB-AB Metal C2 Panel Jack Screw



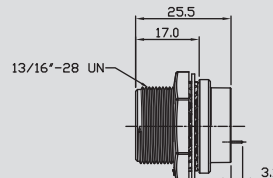
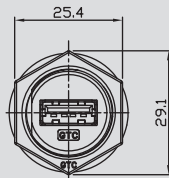
P/N	Product
GT21A300-80	with Micro USB-AB Coupler

Mini USB-B Metal C2 Panel Jack Screw



P/N	Product
GT214300-10	Dip Pin
GT214300-50	with Mini USB-B Coupler
GT214300-03-XX	with Blunt Cut Cable
GT214300-05-XX	with Cable + USB-A Plug
GT214300-06-XX	with Cable + USB-A Jack
GT214300-07-XX	with Cable + Mini USB-B Plug
GT214300-08-XX	with Cable + USB-B Jack
GT214300-09-XX	with Cable + USB-B Plug
GT214300-0P-XX	with Cable + Micro USB-B Plug

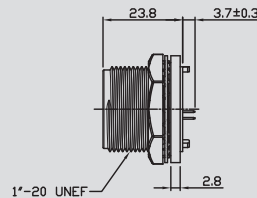
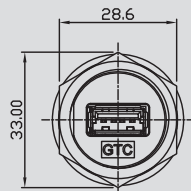
USB-A Metal C3 Panel Jack Screw



P/N	Product
GT216300-10	Dip Pin
GT216300-10(G)	Dip Pin (Green Color Housing)
GT216300-20	Dip Pin 90°
GT216300-30	with USB-A Coupler
GT216300-30(G)	with Coupler (Green Color Housing)
GT216300-03-XX	with Blunt Cut Cable
GT216300-05-XX	with Cable + USB-A Plug
GT216300-06-XX	with Cable + USB-A Jack
GT216300-07-XX	with Cable + Mini USB-B Plug

P/N	Product
GT216300-09-XX	with Cable + USB-B Plug
GT216300-0E-XX	with Cable + USB Mini-B Left Angle
GT216300-0M-XX	Dual Head USB-A Metal C3 Panel Jack Screw with Cable
GT216300-0P-XX	with Cable + Micro USB-B Plug

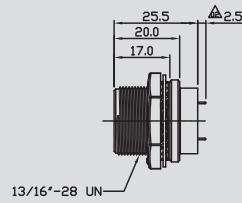
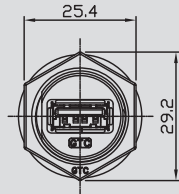
USB-A Metal C4 Panel Jack Screw



P/N	Product
GT211300-10	Dip Pin
GT211300-30	with USB-A Coupler
GT211300-03-XX	with Blunt Cut Cable
GT211300-05-XX	with Cable + USB-A Plug

P/N	Product
GT211300-06-XX	with Cable + USB-A Jack
GT211300-08-XX	with Cable + Mini USB-B Jack
GT211300-09-XX	with Cable + USB-B Plug

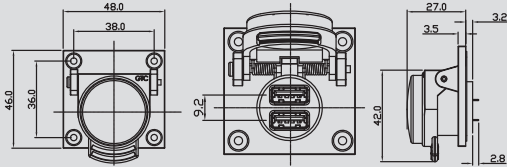
USB-A 3.0 Metal C3 Panel Jack Screw



P/N	Product
GT218300-10	Dip Pin
GT218300-20	Dip Pin 90°
GT218300-30	with USB-A Coupler
GT218300-35	with USB-A 3.0 Female Coupler Cross wiring
GT218300-40	with USB-B 3.0 Coupler
GT218300-01-XX	with Cable Blunt Cut
GT218300-02-XX	with Cable + USB-A 3.0 Plug
GT218300-03-XX	with Cable + USB-A 3.0 Jack
GT218300-05-XX	with Cable + USB-B 3.0 Plug

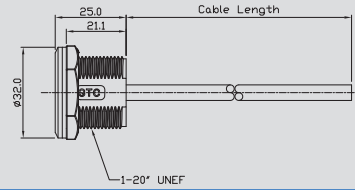
P/N	Product
GT218300-08-XX	with Cable + Micro USB-B 3.0 Plug
GT218300-0A-XX	with Cable + USB-A 3.0 Plug Right Angle
GT218300-0C-XX	with Cable + Type-C Plug
GT218300-0D-XX	with Cable + Type-C Plug Right Angle Right / Left
GT218300-0L-XX	with Cable + USB-A 3.0 Plug Right Angle Left
GT218300-0V-XX	with Cable + Type-C Plug Up/Down Angle

Dual USB 2.0 C4 Square Flange Jack



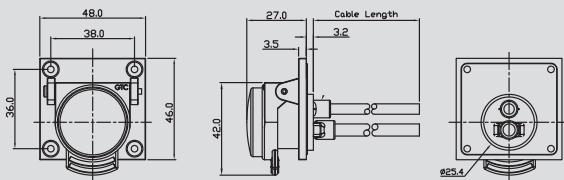
P/N	Product
GT111443-10	Dip Pin
GT111443-04-XX	with Blunt Cut Cable
GT111443-05-XX	with Cable + USB-A Plug

Dual USB 2.0 Plastic C4 Panel Rear Mount Jack



P/N	Product
GT1113B2-03-XX	with Blunt Cut Cable
GT1113B2-05-XX	with Cable + USB-A Plug
GT1113B2-0B-XX	with Cable + Dual USB-A Plug

USB-A 3.0 + Type-C C4 Square Flange JACK

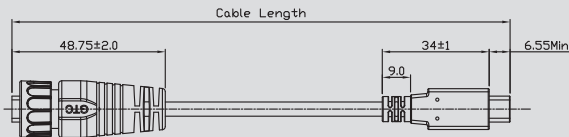


P/N	Product
GT11F443-0F-XX	with Blunt Cut Cable

PLASTIC CABLE END

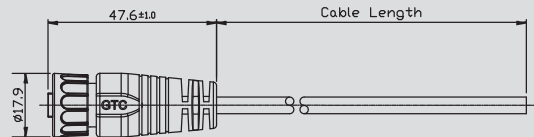
USB

USB 3.1 Type C Plastic C2 Cable End Plug Lock



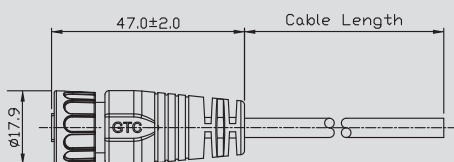
P/N	Product
GT11C220-01-XX	with Cable + Type-C Plug
GT11C220-02-XX	with Cable + Type-C Jack
GT11C220-03-XX	with Blunt Cut Cable
GT11C220-04-XX	with Cable + USB-A 3.0 Plug
GT11C220-09-XX	with Cable + Right Angle Right / Left Type-C Plug
GT11C220-0M-XX	Dual Head USB 3.1 Type-C Plastic C2 Cable End Plug Lock with Cable

Micro USB-B Plastic C2 Cable End Plug Lock



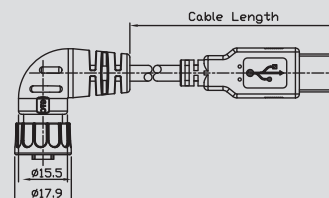
P/N	Product
GT11B220-01-XX	with Blunt Cut Cable
GT11B220-05-XX	with Cable + USB-A Plug
GT11B220-06-XX	with Cable + USB-A Jack
GT11B220-0P-XX	with Cable + Micro USB-B Plug

Mini USB-B Plastic C2 Cable End Plug Lock



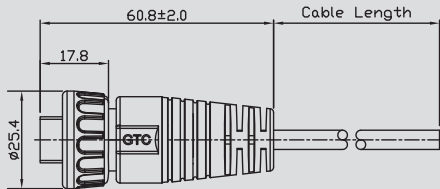
P/N	Product
GT114220-01-XX	with Blunt Cut Cable
GT114220-05-XX	with Cable + USB-A Plug
GT114220-06-XX	with Cable + USB-A Jack
GT114220-07-XX	with Cable + Mini USB-B Plug
GT114220-08-XX	with Cable + Mini USB-B Jack
GT114220-09-XX	with Cable + USB-B Plug
GT114220-0M-XX	Dual Head Mini USB-B Plastic C2 Cable End Plug Lock with Cable
GT114220-0P-XX	with Cable + Micro USB-B Plug

Mini USB-B Plastic C2 Cable End 90° Plug Lock



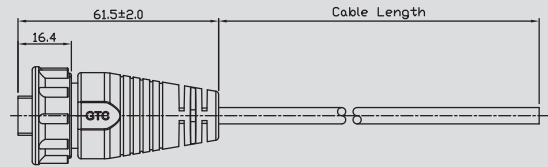
P/N	Product
GT114229-01-XX	with Blunt Cut Cable
GT114229-05-XX	with Cable + USB-A Plug
GT114229-06-XX	with Cable + USB-A Jack
GT114229-07-XX	with Cable + Mini USB-B Plug
GT114229-08-XX	with Cable + USB-B Jack

USB-A Plastic C3 Cable End Plug Screw



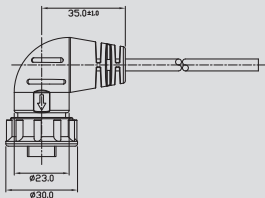
P/N	Product
GT116320-01-XX	with Blunt Cut Cable
GT116320-05-XX	with Cable + USB-A Plug
GT116320-06-XX	with Cable + USB-A Jack
GT116320-07-XX	with Cable + Mini USB-B Plug
GT116320-09-XX	with Cable + USB-B Plug
GT116320-0M-XX	Dual head USB-A Plastic C3 Cable End Plug Screw with Cable

USB-A Plastic C4 Cable End Plug Lock



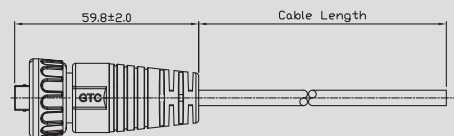
P/N	Product
GT111220-01-XX	with Blunt Cut Cable
GT111220-05-XX	with Cable + USB-A Plug
GT111220-06-XX	with Cable + USB-A Jack
GT111220-07-XX	with Cable + Mini USB-B Plug
GT111220-09-XX	with Cable + USB-B Plug
GT111220-0C-XX	Dual Head USB-A Plastic C4 Cable End Plug Lock with Cable

USB-A Plastic C4 Cable End Angle Plug Lock



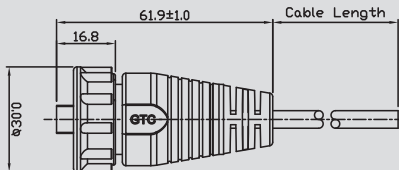
P/N	Product
GT111229-01-XX	with Blunt Cut Cable
GT111229-06-XX	with Cable + USB-A Jack
GT111229-09-XX	with Cable + USB-B Plug

USB-B Plastic C3 Cable End Plug Screw



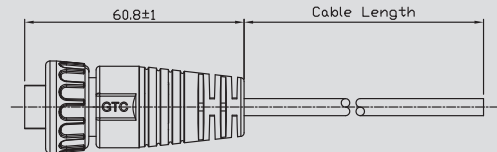
P/N	Product
GT117320-01-XX	with Blunt Cut Cable
GT117320-05-XX	with Cable + USB-A Plug

USB-B Plastic C4 Cable End Plug Lock



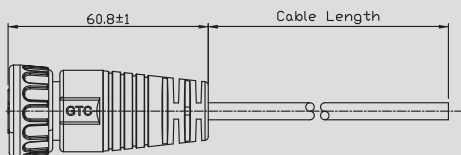
P/N	Product
GT112220-01-XX	with Blunt Cut Cable
GT112220-05-XX	with Cable + USB-A Plug

USB-A 3.0 Plastic C3 Cable End Plug Screw



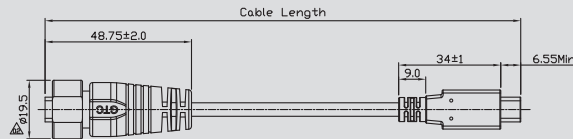
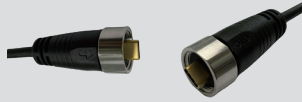
P/N	Product
GT118320-01-XX	with Blunt Cut Cable
GT118320-02-XX	with Cable + USB-A 3.0 Plug
GT118320-03-XX	with USB-A 3.0 Jack
GT118320-04-XX	with Cable + Micro USB-B 3.0 Plug
GT118320-05-XX	with Cable + USB-B 3.0 Plug
GT118320-08-XX	with Cable + Micro USB-B 3.0 Plug
GT118320-0C-XX	with Cable +Type-C Plug
GT118320-0M-XX	Dual Head USB-A 3.0 Plastic C3 Cable End Plug Screw with Cable

Micro USB-B 3.0 Plastic C3 Cable End Plug Screw



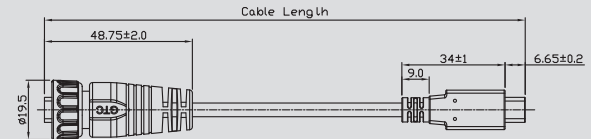
P/N	Product
GT119320-01-XX	with Blunt Cut Cable
GT119320-02-XX	with Cable + USB-A 3.0 Plug
GT119320-03-XX	with Cable + USB-A 3.0 Jack
GT119320-04-XX	with Cable + Micro USB-B 3.0 Plug
GT119320-07-XX	with Cable + Micro USB-B 3.0 Jack

USB 3.1 Type-C Stainless C2 Cable End Plug Screw



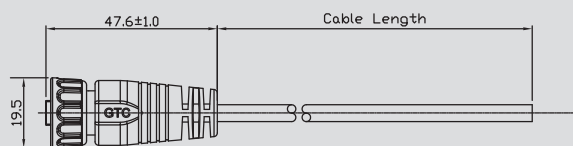
P/N	Product
GT61C320-01-XX	with Cable + Type-C Plug

USB 3.1 Type-C Metal C2 Cable End Plug Screw



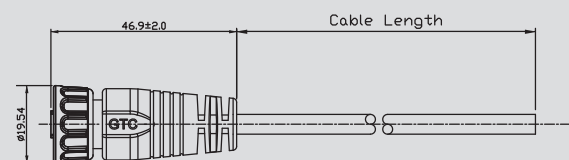
P/N	Product
GT21C320-01-XX	with Cable + Type-C Plug
GT21C320-02-XX	with Cable + Type-C Jack
GT21C320-03-XX	with Blunt Cut Cable
GT21C320-04-XX	with Cable + USB-A 3.0 Plug
GT21C320-05-XX	with Cable + USB-B 3.0 Plug
GT21C320-06-XX	with Cable + USB-A 3.0 Jack
GT21C320-09-XX	with Cable + Type-C Plug Right Angle
GT21C320-0M-XX	Dual Head USB 3.1 Type-C Metal C2 Cable End Plug Screw with Cable

Micro USB-B Metal C2 Cable End Plug Screw



P/N	Product
GT21B320-01-XX	with Blunt Cut Cable

Mini USB-B Metal C2 Screw Cable End Plug Screw

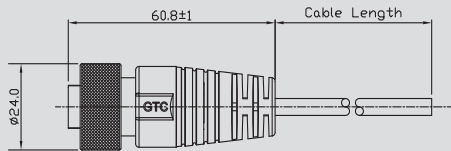


P/N	Product
GT214320-01-XX	with Blunt Cut Cable
GT214320-05-XX	with Cable + USB-A Plug
GT214320-06-XX	with Cable + USB-A Jack
GT214320-08-XX	with Cable + Mini USB-B Jack
GT214320-0C-XX	with Cable + USB-A C4 Cable end Screw
GT214320-0G-XX	Dual Head Mini USB-B Metal C2 Cable End Plug Screw with Cable

METAL CABLE END

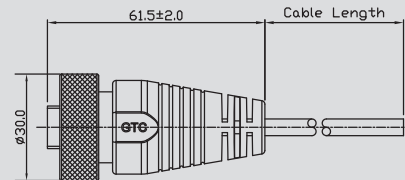
USB

USB-A Metal C3 Cable End Plug Screw



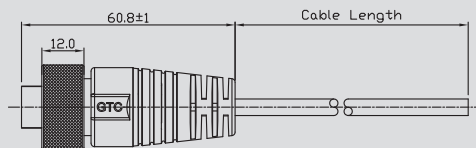
P/N	Product
GT216320-01-XX	with Blunt Cut Cable
GT216320-01-XX(G)	with Blunt Cut Cable (Green Color Screw Nut)
GT216320-05-XX	with Cable + USB-A Plug
GT216320-06-XX	with Cable + USB-A Jack
GT216320-06-XX(G)	with Cable + USB-A Jack (Green Color Screw Nut)
GT216320-07-XX	with Cable + Mini USB-B Plug
GT216320-09-XX	with Cable + USB-B Plug
GT216320-0M-XX	Dual Head USB-A Metal C3 Cable End Plug Screw with Cable
GT216320-0P-XX	with Cable + Micro USB-B Plug
GT216320-0W-XX	with Cable + Mini USB-A Plug

USB-A Metal C4 Cable End Plug Screw



P/N	Product
GT211320-01-XX	with Blunt Cut Cable
GT211320-05-XX	with Cable + USB-A Plug
GT211320-06-XX	with Cable + USB-A Jack
GT211320-07-XX	with Cable + Mini USB-B Plug
GT211320-09-XX	with Cable + USB-B Plug
GT211320-0M-XX	Dual Head Cable End Plug with Cable

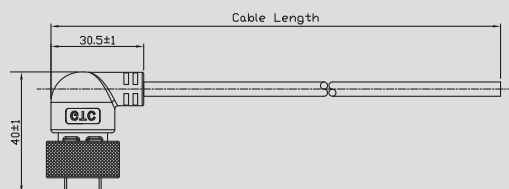
USB-A 3.0 Metal C3 Cable End Plug Screw



P/N	Product
GT218320-01-XX	with Blunt Cut Cable
GT218320-01-XX (G)	with Blunt Cut Cable (Green Color Housing)
GT218320-02-XX	with Cable + USB-A 3.0 Plug
GT218320-03-XX	with Cable + USB-A 3.0 Jack
GT218320-03-XX(G)	with Cable + USB-A 3.0 Jack (Green Color Housing)

P/N	Product
GT218320-05-XX	with Cable + USB-B 3.0 Plug
GT218320-08-XX	with Cable + Micro USB-B 3.0 Plug
GT218320-0B-XX	with Cable + USB-A 3.0 Metal C3 Cable End 90° Plug Screw
GT218320-0M-XX	Dual Head USB-A 3.0 Metal C3 Cable End Plug Screw with Cable
GT218320-0C-XX	with Cable + Type-C Plug

USB-A 3.0 Metal C3 Cable End 90° Plug Screw

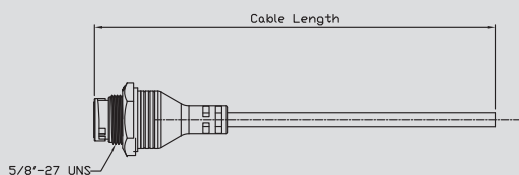


P/N	Product
GT218329-01-XX	with Blunt Cut Cable
GT218329-02-XX	with Cable + USB-A 3.0 Plug
GT218329-03-XX	with Cable + USB-A 3.0 Jack
GT218329-08-XX	with Cable + Micro USB-B 3.0 Plug
GT218329-0M-XX	Dual Head USB-A 3.0 Metal C3 Cable End 90° Plug Screw with Cable

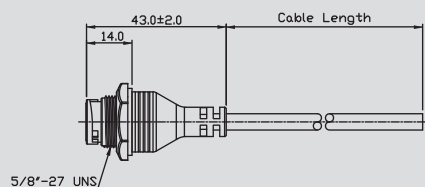
PLASTIC CABLE TO CABLE

USB

USB 3.1 Type-C Plastic C2 Cable To Cable Jack Lock



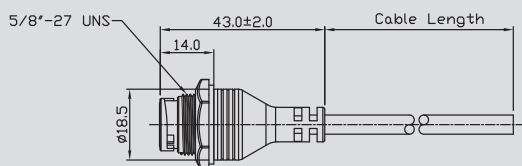
Micro USB-AB Plastic C2 Cable to Cable Jack Lock



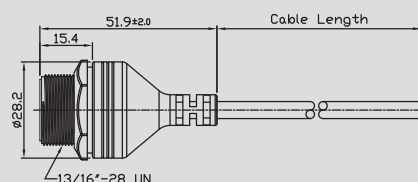
P/N	Product
GT11C210-01-XX	with Cable + Type-C Plug
GT11C210-02-XX	with Cable + Type-C Jack
GT11C210-03-XX	with Blunt Cut Cable
GT11C210-04-XX	with Cable + USB-A 3.0 Plug
GT11C219-01-XX	Panel down angle with Cable + Type-C Plug
GT11C219-03-XX	Panel down angle with Blunt Cut Cable
GT11C219-09-XX	Panel down angle with Cable + Type-C Plug Right Angle Right / Left

P/N	Product
GT11A210-01-XX	with Blunt Cut Cable
GT11A210-0M-XX	Dual Head Micro USB-AB Plastic C2 Cable to Cable Jack Lock with Cable

Mini USB-B Plastic C2 Cable To Cable Jack Lock



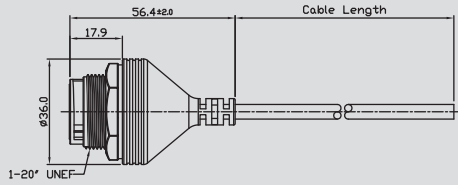
USB-A Plastic C3 Cable To Cable Jack Screw



P/N	Product
GT114210-01-XX	with Blunt Cut Cable
GT114210-05-XX	with Cable + USB-A Plug
GT114210-07-XX	with Cable + Mini USB-B Plug
GT114210-0C-XX	with Cable + USB-A C4 Cable end Lock
GT114210-0L-XX	with Cable + Mini USB-B Plastic C2 Right Angle Plug Lock

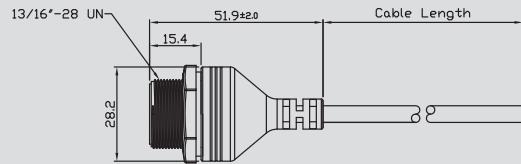
P/N	Product
GT116310-01-XX	with Blunt Cut Cable
GT116310-05-XX	with Cable + USB-A Plug
GT116310-06-XX	with Cable + USB-A Jack
GT116310-07-XX	with Cable + Mini USB-B Plug
GT116310-09-XX	with Cable + USB-B Plug
GT116310-0M-XX	Dual Head USB-A Plastic C3 Cable To Cable Jack Screw with Cable

USB-A Plastic C4 Cable To Cable Jack Lock



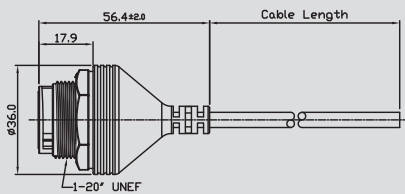
P/N	Product
GT111210-01-XX	with Blunt Cut Cable
GT111210-05-XX	with Cable + USB-A Plug
GT111210-07-XX	with Cable + Mini USB-B Plug
GT111210-09-XX	with Cable + USB-B Plug
GT111210-0C-XX	with Cable + USB-A Plastic C4 Cable End Plug Lock

USB-B Plastic C3 Cable to Cable Jack Screw



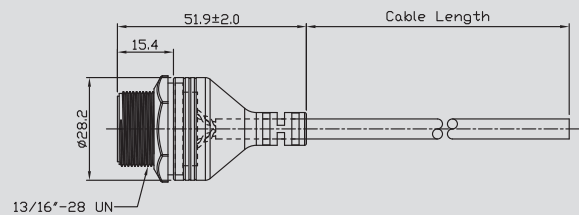
P/N	Product
GT117310-03-XX	with Blunt Cut Cable
GT117310-05-XX	with Cable + USB-A Plug
GT117310-06-XX	with Cable + USB-A Jack
GT117310-07-XX	with Cable + Mini USB-B Plug
GT117310-09-XX	with Cable + USB-B Plug

USB-B Plastic C4 Cable To Cable Jack Lock



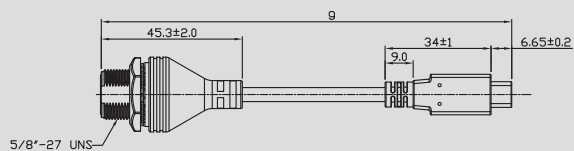
P/N	Product
GT112210-01-XX	with Blunt Cut Cable
GT112210-09-XX	with Cable + USB-B Plug
GT112210-0M-XX	Dual Head USB-B Plastic C4 Cable To Cable Jack Lock with Cable

USB-A 3.0 Plastic C3 Cable To Cable Jack Screw



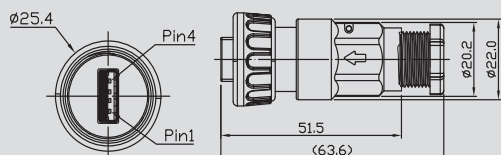
P/N	Product
GT118310-01-XX	with Blunt Cut Cable
GT118310-02-XX	with Cable + USB-A 3.0 Plug
GT118310-04-XX	with Cable + Micro USB-B 3.0 Plug
GT118310-05-XX	with Cable + USB-B 3.0 Plug
GT118310-09-XX	with Cable + USB-B Plug
GT118310-0C-XX	with Cable + Type-C Plug
GT118310-0D-XX	with Cable + Type-C Plug Right Angle Right / Left

USB 3.1 Type-C Metal C2 Cable To Cable Jack Screw



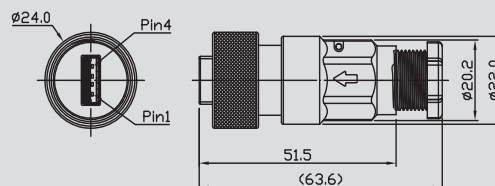
P/N	Product
GT21C310-01-XX	with Cable + Type-C Plug
GT21C310-04-XX	with Cable + USB-A 3.0 Plug
GT21C310-09-XX	with Cable + Type-C Plug Right Left

USB-A Plastic C3 Field Installable Cable End Plug Screw



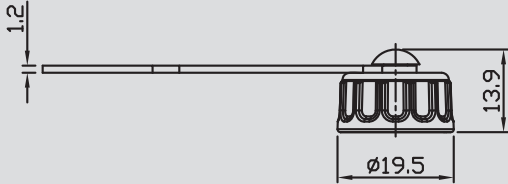
P/N	Product
GT116370-00	USB-A 2.0 Plug

USB-A Metal C3 Field Installable Cable End Screw



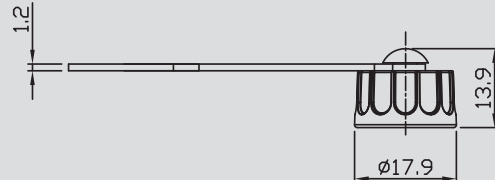
P/N	Product
GT216370-00	USB-A 2.0 Plug
GT216370-00(G)	USB-A 2.0 Plug (Green Color Housing)

Cap Plastic for C2 Screw Panel



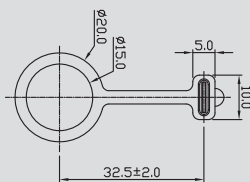
P/N	Mating Series No.
GT1C5231X2	GT21A300 Series
	GT21C300 Series
	GT21C310 Series
	GT214300 Series
	GT61C300 Series

Cap Plastic for USB C2 Lock Panel



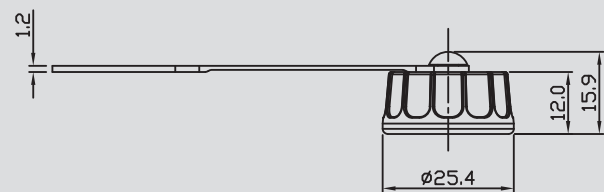
P/N	Mating Series No.
GT1C1210X2	GT11A200 Series
	GT11A210 Series
	GT11C219 Series
	GT11C200 Series
	GT11C210 Series
	GT114200 Series
	GT114210 Series

Cap For Type-C Flush Mount Panel



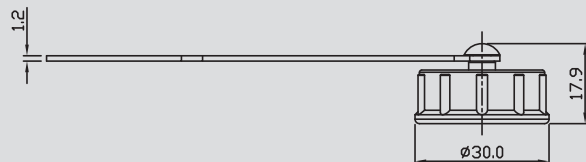
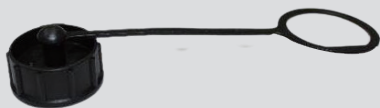
P/N	Mating Series No.
GT5C1C4092	GT11C401 Series

Cap Plastic for C3 Screw Panel



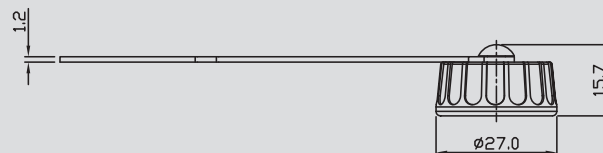
P/N	Mating Series No.
GT1C5331X2	GT116300 Series
	GT116310 Series
	GT117300 Series
	GT117310 Series
	GT118300 Series
	GT118310 Series
	GT119300 Series
	GT216300 Series
	GT218300 Series

Cap Plastic for C4 Screw Panel



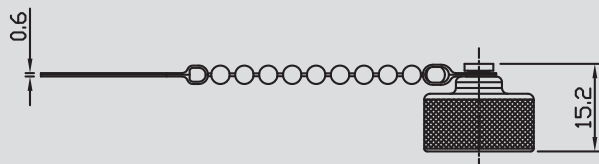
P/N	Mating Series No.
GT1C5431X2	GT211300 Series

Cap Plastic for USB-A C4 Lock Panel



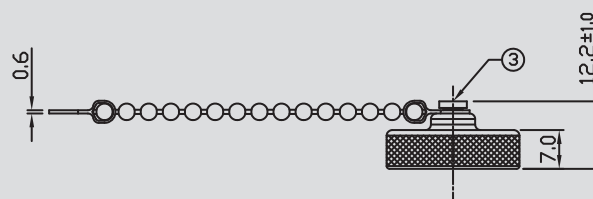
P/N	Mating Series No.
GT1C1110X2	GT111200 Series
	GT111210 Series
	GT112200 Series
	GT112210 Series

Cap Metal for Mini USB C2 Screw Panel



P/N	Mating Series No.
GT2C1230X2	GT21A300 Series
	GT21C300 Series
	GT21C310 Series
	GT214300 Series
	GT61C300 Series

Cap Metal for C3 Screw Panel



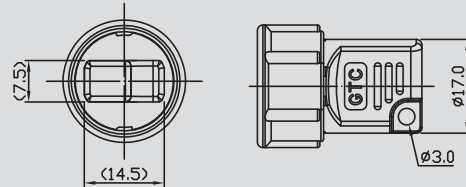
P/N	Mating Series No.
GT2C2150X2	GT216300 Series
	GT218300 Series

Cap Stainless for C2 Screw Panel



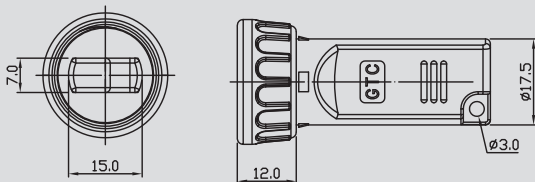
P/N	Mating Series No.
GT6C123012	GT61C300 Series

USB Plastic C3 Flash Drives Cover Lock



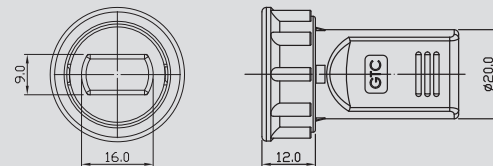
P/N	Product
GT118280-00	C3 USB Flash Drives Cover Lock

USB Plastic C3 Flash Drive Cover Screw



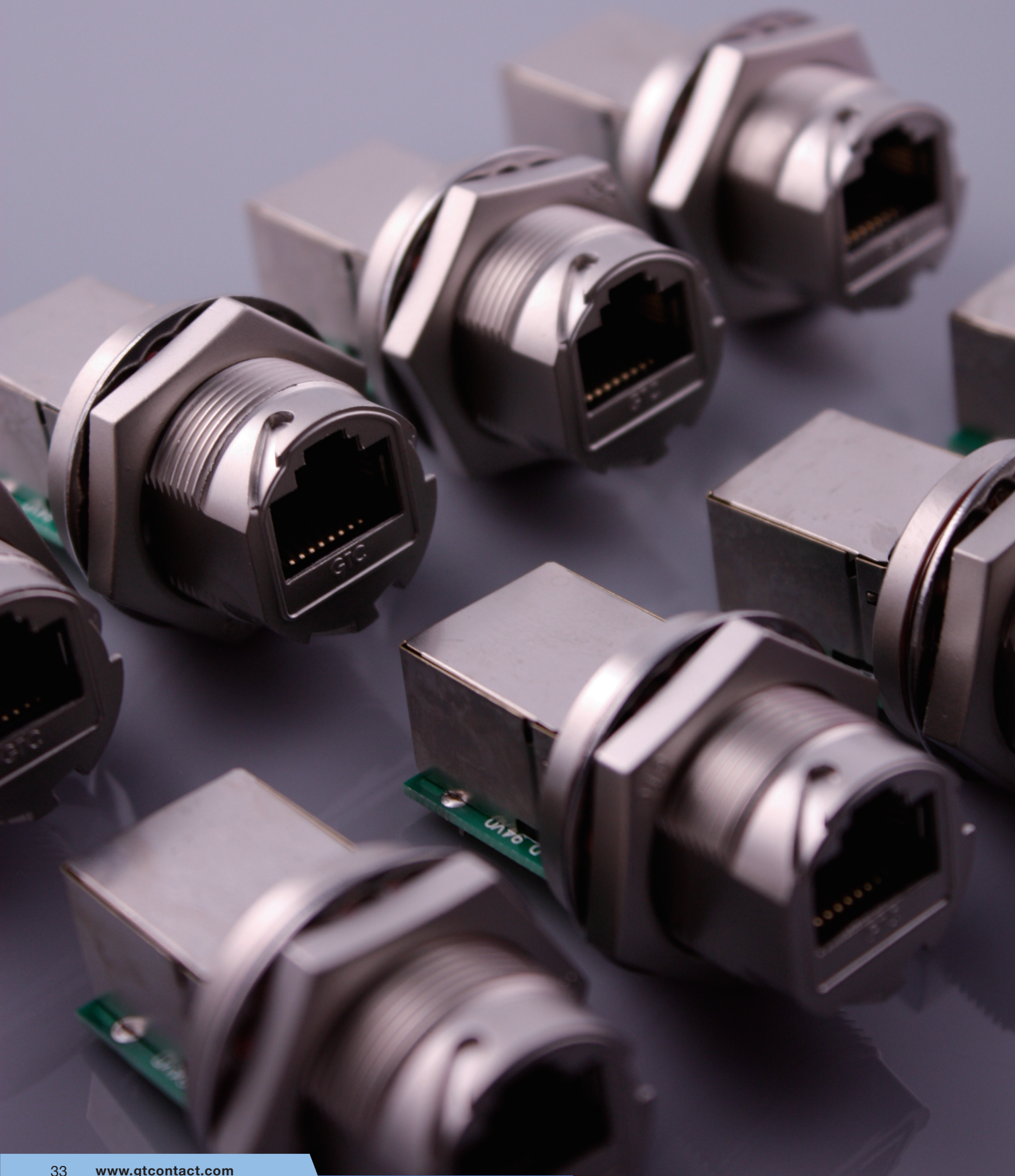
P/N	Product
GT116380-00	C3 USB Flash Drives Cover Screw

USB Plastic C4 Flash Drive Lock



P/N	Product
GT111280-00	C4 USB Flash Drives Cover Lock

RJ45 SERIES



RJ45

Part Numbering System

- Housing Type**
 0- Panel mount receptacle (Jack)
 1- Cable to Cable (Jack)
 2- Cable End
 6- Easy Field Installable
 7- Assembly Type full Metal
 8- Easy Field Installable w/o Plug

- Mating Method**
 3- Screw (Long nut)
 5- Screw (Short nut)

- Sub-Type**
 1- Non-shielded (8P8C) Left D-Cut
 5- Shielded (8P8C) Left D-Cut
 6- Shielded (8P8C) Right D-Cut
 7- Non-shielded non D-Cut

2- RJ Series

- Material**
 1- Plastic
 2- Metal
 6- SUS



- Connector Type**
 0- Straight (180°)
 5- Angle (90°)

- Type**
 0- Solder (Cable)
 1- PCB 180° (Panel)
 2- PCB 90° (Panel)
 3- Coupler Receptacle 180°
 4- Coupler Receptacle 90°
 A- Cable O.D. 6.0mm-8.5mm
 D- Shielded (Dip 180°)
 E- Shielded (Dip 90°)

- Cable Length**
 Z1 10 cm cable
 Z2 20 cm cable
 ∴
 01 1 m cable
 02 2 m cable
 ∴
 A0 100 m

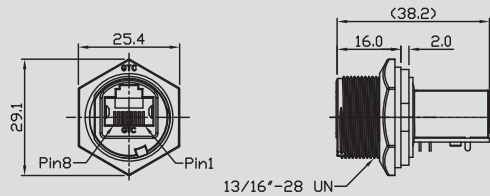
Cable Type
 Various options
 Please contact us

Specifications

RJ45 Plastic / Zinc Alloy / SUS Metal Engineering Specifications		
Specifications		
Current Rating	Plastic / Metal	1.5A
	SUS Metal	1.5A Max / 50VAC/DC
AWG Gauge	Plastic	24 AWG~28 AWG
	Zinc Alloy / SUS Metal	24 AWG ~26 AWG
Operation temperature	With Cable -40°C / +85°C	
	Without Cable -40°C / +105°C	
IP Rating	Plastic	IP67
	Zinc Alloy / SUS Metal	IP68
Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the RJ45 Specification.
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC500V±10% , test for 1 minute and the insulation resistance should be more than100MΩ
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	500 V DC/AC peak, contact-to-contact, for 1min. 500 V DC/ AC peak, contact-to-test panel or contact-to-shield for 1 min.
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	20mΩ at 10mA Max.
Insertion and withdrawal forces	IEC60512,13b	Speed: 10 mm/s maximum. Insertion force 30 N maximum Withdrawal force 0.5 N maximum
Durability	EIA 364-09 or IEC 60512-9a	Screw type 750 cycles, rate of 200 cycles per hour. Lock type 200 cycles, rate of 200 cycles per hour.

Product Technical Data		
Characteristics	Standard	Description
Cable Pull-Out	EIA 364-38 Test Condition A or IEC 60512-13a	After the application of a steady state axial load of 40 N for one minute.
Cable Flexing	EIA 364-41	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle, the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles, test withstanding voltage and insulation resistance.
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μs or longer duration when mated are RJ45 connectors subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.
Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C, after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h, Temperature of the pressure barrel is 43°C, LAB temperature is 35°C, relative humidity of LAB is 95%~98%, test time is 24hr, after the test, check if there is rusty and oxidized phenomenon.
Waterproof Test	IEC 60529	Plastic Under 1 M water for 30 Min.
		Zinc Alloy / SUS Metal Under 1 M water for 24 Hr.
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours.
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31, Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (± 3) °C Black Panel Temperature 4 h Condensation at 50 (± 3) °C Black Panel Temperature

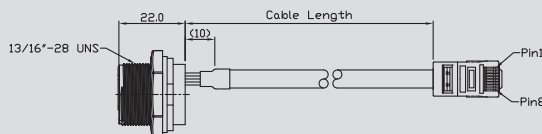
RJ45 Plastic Shielded Panel Jack Screw



P/N	Product
GT125300-30	with Coupler
GT125300-40	with 90° Coupler
GT125300-11	Dip Pin
GT125300-D0	Dip Pin with Ground Pin
GT125300-E0	Dip Pin 90° with Ground Pin
GT125300-03-XX	with Cable + RJ45 Plug
GT125300-09-XX	with Cable Blunt Cut
GT125300-0A-XX	with CAT6 Cable + RJ45 Plug

P/N	Product
GT125300-0E-XX	with CAT6 Cable Blunt Cut
GT125300-0H-XX	with CAT6 Cable + Latch Down RJ45 Plug
GT125300-0J-XX	with CAT6 Cable + Latch Up RJ45 Plug
GT125300-0R-XX	with Cable + Latch Down RJ45 Plug
GT125300-0U-XX	with Cable + RJ45 Plug Latch Up

RJ45 Plastic Panel Jack Screw

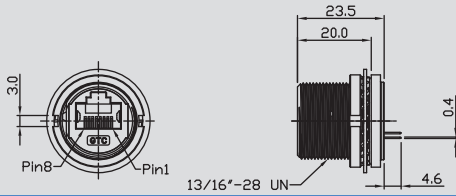
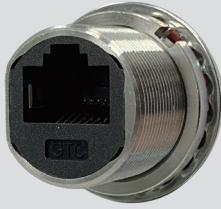


P/N	Product
GT121300-0B-XX	with Cable + RJ45 Plug

METAL PANEL MOUNT

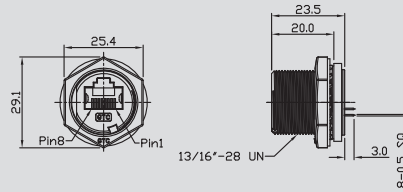
RJ45

RJ45 Stainless Shielded Panel Jack Screw



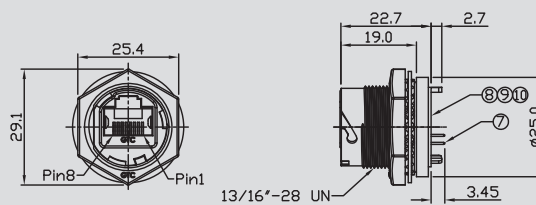
P/N	Product
GT625500-D0(S)	Dip Pin + Spanner Nut
GT625500-03-XX(S)	with Cable + RJ45 Plug + Spanner Nut

RJ45 Metal Shielded Panel Jack Screw



P/N	Product
GT225500-10	Dip Pin
GT225500-20	Dip Pin 90°
GT225500-30	with Coupler
GT225500-D0	Dip Pin with Ground Pin
GT225500-E0	Dip Pin 90° with Ground Pin
GT225500-03-XX	with Cable + RJ45 Plug
GT225500-09-XX	with Cable Blunt Cut
GT225500-0A-XX	with CAT6 Cable + RJ45 Plug
GT225500-0R-XX	with Cable + Latch Down RJ45 Plug
GT225500-0U-XX	with Cable + RJ45 Plug Latch Up

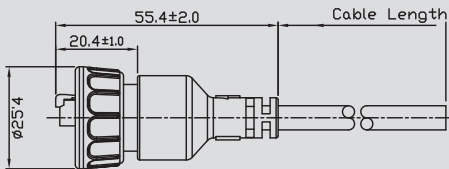
RJ45 Metal Shielded Panel Jack Lock



P/N	Product
GT225200-10	Dip Pin
GT225200-30	with Coupler
GT225200-40	with 90° Coupler
GT225200-D0	Dip Pin with Ground Pin
GT225200-03-XX	with Cable + RJ45 Plug
GT225200-09-XX	with Cable Blunt Cut
GT225200-0A-XX	with CAT6 Cable + RJ45 Plug

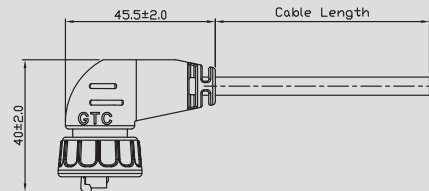
P/N	Product
GT225200-0B-XX	with UTP Cable + RJ45 Plug
GT225200-0H-XX	with CAT6 Cable + Latch Down RJ45 Plug
GT225200-0J-XX	with CAT6 Cable + Latch Up RJ45 Plug
GT225200-0R-XX	with Cable + Latch Down RJ45 Plug
GT225200-0U-XX	with Cable + RJ45 Plug Latch Up

RJ45 Plastic Shielded Cable End Plug Screw



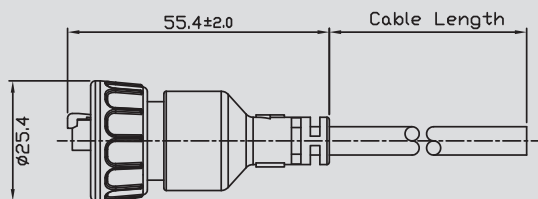
P/N	Product
GT125320-02-XX	with Cable Blunt Cut
GT125320-06-XX	with Cable + RJ45 Plug
GT125320-07-XX	Dual Head RJ45 Plastic Cable End Screw with Cable
GT125320-0A-XX	with CAT6 Cable + RJ45 Plug
GT125320-0E-XX	with CAT6 Cable Blunt Cut
GT125320-0K-XX	Dual Head RJ45 Plastic Cable End Screw with CAT6 Cable

RJ45 Plastic Shielded Cable End 90° Plug Screw



P/N	Product
GT125325-02-XX	with Cable Blunt Cut
GT125325-06-XX	with Cable + RJ45 Plug
GT125325-07-XX	Dual Head RJ45 Plastic Cable End Screw with Cable
GT125325-0A-XX	with CAT6 Cable + RJ45 Plug

RJ45 Plastic Non-Shielded Cable End Plug Screw

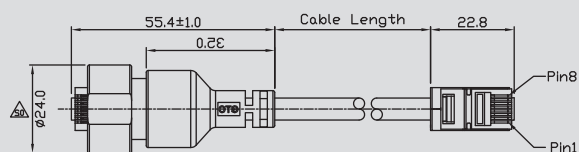


P/N	Product
GT127320-08-XX	with Cable Blunt Cut

METAL CABLE END

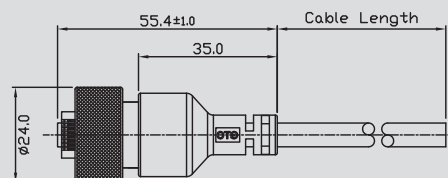
RJ45

RJ45 Stainless Shielded Cable End Plug with Short Screw



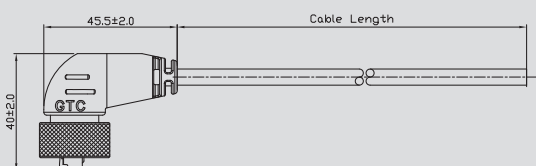
P/N	Product
GT625520-06-XX	with Cable + RJ45 Plug

RJ45 Metal Shielded Cable End Plug with Short Screw



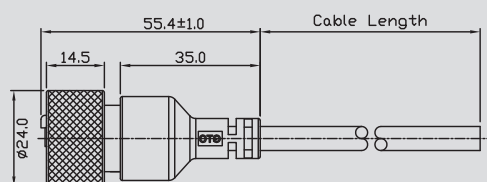
P/N	Product
GT225520-02-XX	with Cable Blunt Cut
GT225520-06-XX	with Cable + RJ45 Plug
GT225520-07-XX	Dual Head RJ45 Plastic Cable End Screw with Cable
GT225520-0A-XX	with CAT6 Cable + RJ45 Plug

RJ45 Metal Shielded Cable End 90° Plug with Short Screw



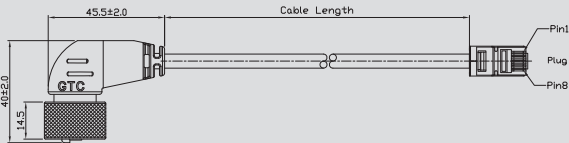
P/N	Product
GT225525-02-XX	with Cable Blunt Cut
GT225525-06-XX	with Cable + RJ45 Plug

RJ45 Metal Shielded Cable End with Long Screw



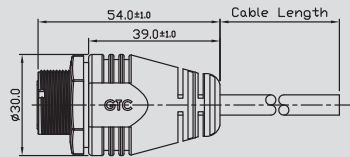
P/N	Product
GT225320-01-XX	with Grey Cable Blunt Cut
GT225320-02-XX	with Cable Blunt Cut
GT225320-06-XX	with Cable + RJ45 Plug
GT225320-07-XX	Dual Head RJ45 Metal Cable End 90° Screw with Cable
GT225320-0A-XX	with CAT6 Cable + RJ45 Plug
GT225320-0K-XX	Dual Head RJ45 Metal Cable End 90° Screw with CAT6 Cable

RJ45 Metal Shielded Cable End 90° Plug with Long Screw



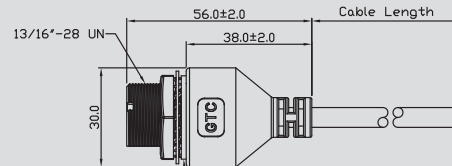
P/N	Product
GT225325-02-XX	with Cable Blunt Cut
GT225325-06-XX	with Cable + RJ45 Plug
GT225325-07-XX	Dual Head RJ45 Metal Cable End 90° Screw with Cable
GT225325-0A-XX	with CAT6 Cable + RJ45 Plug

RJ45 Plastic C3 Shielded Cable To Cable Jack Screw



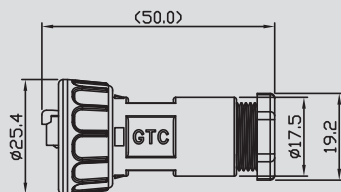
P/N	Product
GT125310-02-XX	with Cable Blunt Cut
GT125310-06-XX	with Cable + RJ45 Plug
GT125310-07-XX	Dual Head RJ45 Cable to Cable Jack Screw with Cable
GT125310-0A-XX	with CAT6 Cable + RJ45 Plug

RJ45 Metal C3 Shielded Cable To Cable Jack Screw



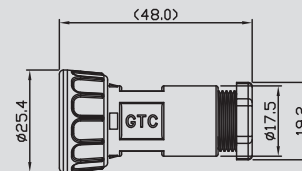
P/N	Product
GT225510-02-XX	with Cable Blunt Cut
GT225510-06-XX	with Cable + RJ45 Plug
GT225510-07-XX	Dual Head RJ45 Cable to Cable Jack Screw with Cable
GT225510-0A-XX	with CAT6 Cable + RJ45 Plug

RJ45 Plastic Field Installable Cable End Plug Screw



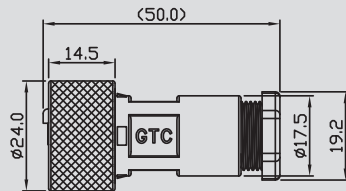
P/N	Product
GT125360-00	Gland Nut for Cable OD: 5-6mm
GT125360-A0	Gland Nut for Cable OD: 6-8.5mm

RJ45 Plastic Field Installable Cable End Screw without Plug



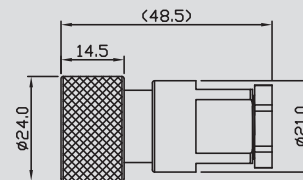
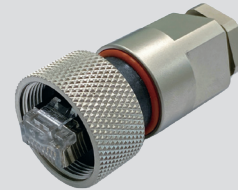
P/N	Product
GT125380-00	Gland Nut for Cable OD: 5-6mm
GT125380-A0	Gland Nut for Cable OD: 6-8.5mm

RJ45 Metal Field Installable Cable End Plug Screw



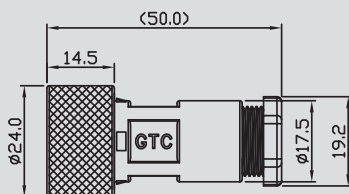
P/N	Product
GT225360-00	Long Screw Nut, Gland Nut for Cable OD: 5-6mm
GT225360-A0	Long Screw Nut, Gland Nut for Cable OD: 6-8.5mm
GT225560-00	Short Screw Nut, Gland Nut for Cable OD: 5-6mm
GT225560-A0	Short Screw Nut, Gland Nut for Cable OD: 6-8.5mm

RJ45 Full Metal Field Installable Cable End Plug Screw



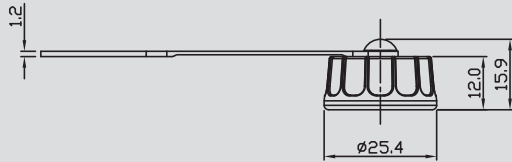
P/N	Product
GT225370-00	Long Screw Nut, Gland Nut for Cable OD: 5-6mm
GT225370-A0	Long Screw Nut, Gland Nut for Cable OD: 6-8.5mm

RJ45 Metal Field Installable Cable End Screw without Plug



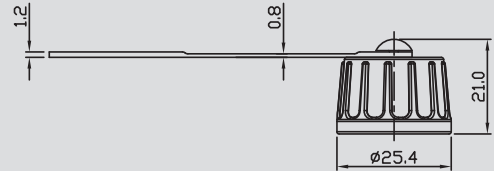
P/N	Product
GT225380-00	Long Screw Nut, Gland Nut for Cable OD: 5-6mm
GT225380-A0	Long Screw Nut, Gland Nut for Cable OD: 6-8.5mm
GT225580-00	Short Screw Nut, Gland Nut for Cable OD: 5-6mm
GT225580-A0	Short Screw Nut, Gland Nut for Cable OD: 6-8.5mm

Cap Plastic For C3 Screw Panel



P/N	Mating Series No.
GT1C5331X2	GT125300 Series
	GT121300 Series
	GT125310 Series
	GT225500 Series
	GT225510 Series
	GT625500 Series

Cap Plastic For RJ45 C3 Screw Panel



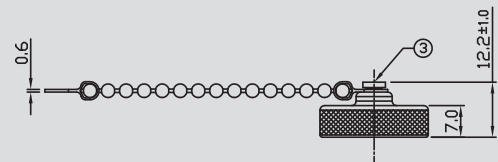
P/N	Mating Series No.
GT1C2130X2	GT225200 Series

Cap Metal For C3 Screw Panel



P/N	Mating Series No.
GT2C2130X2	GT225200 Series

Cap Metal For RJ45 C3 Screw Panel



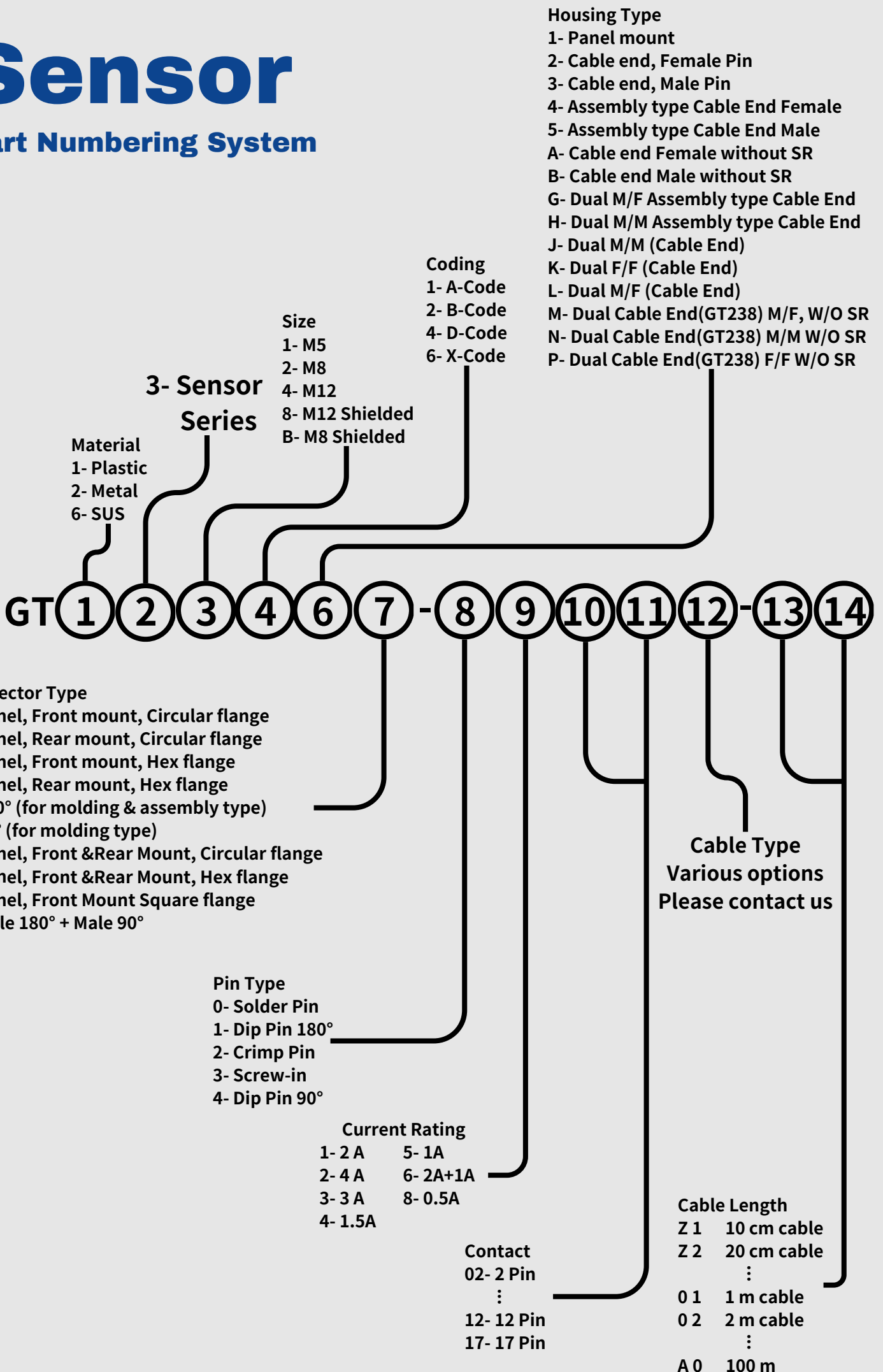
P/N	Mating Series No.
GT2C2150X2	GT225500 Series
	GT225510 Series
	GT625500 Series

SENSOR SERIES



Sensor

Part Numbering System



Specifications

M5 2 to 4 Contacts Engineering Specifications		
Specifications		
Current Rating	1.0A	
Voltage	60V AC/DC	
AWG Gauge	24~30 AWG	
Operation Temperature	With Cable -40°C / +85°C	
	Without Cable -40°C / +105°C	
IP Rating	Panel: IP67 / Cable End: IP67 (Mated)	
Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	IEC-60152-1a	Must meet or exceed the requirements specified by the most current version of the M5 Specification (Unmated).
Polarisation Method	IEC 60512-13e	Insertion force 20 N min.
Contact Resistance	IEC 60512-2a	10mΩ at 10mA Max.
Insulation Resistance	IEC 60512-3a	Test Voltage 500V±15 VDC Method A, Be more than 100MΩ
Withstanding Voltage	IEC 60512-4	900 VAC between contacts , 900 VAC between contacts and metal-housing, for 1±5s min.
Insertion And Withdrawal Force	IEC60512-13b	Max. Speed: 10 mm/s maximum. Insertion force 8 N maximum Withdrawal force 6 N maximum
Gauge Retention Force	IEC60512-16e	Retention force 20g
Vibration	IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. No discontinuities of 1 μs Frequency: 10 to 500 Hz , 0.35mm or 50 mm/s Sweep cycles: 10 Full duration: 6h
Shock	IEC 60512-6c	The electrical load conditions shall be 100mA maximum for all contacts. No discontinuities of 1 μs. Half sine Shock acceleration : 490 m/s ² (50g) Duration of impact : 11ms

Product Technical Data		
Characteristics	Standard	Description
Mechanical Operation	IEC 60512-9a	Cycles : 100 Max. speed of operations : 10mm/s Rest : 30 s , unmated
Rapid Change Of Temperature	IEC 60512-11d	-25°C to 85°C, t=30 min. 5 cycles
Dry Heat	IEC 60512-11i	85°C, duration 16h
Damp Heat Cyclic , First Cycle	IEC 60512-11m	40°C, recovery time 2h
Cold	IEC 60512-11j	-25°C, duration 2h , recovery time 2h
Damp Heat, Cyclic Remaining Cycles	IEC 60512-11m	40°C, recovery time 2h , 5 cycles
Electrical Load And Temperature	IEC 60512-9b	Duration : 1000h Amb. Temp, : 40°C Current Load : 4A Recovery time : 2h
Salt Spray	EIA 364-26 or IEC 60512-11f	LAB temperature is 35°C Salt solution concentration shall be 5%. Compressing the air pressure is 0.083Mpa to 0.13 MPa (12 lb to 18 lb per square inch) Orifices of from 0.5 to 0.7 millimeter (0.02 to 0.03 inch) in diameter. Atomization of approximately 2.8 liters (3 quarts) of the salt solution per 0.28 cubic meter (10 cubic feet) of box volume per 24h. Test Time:condition B 48h
UV Exposure	ASTM G154-06	24Hr equal 1 year:Total require 3 years 8 h UV at 70 (±3) °C Black Panel Temperature 4 h Condensation at 50 (±3) °C Black Panel Temperature
Waterproof Test	IEC 60529	Under 1 M water for 30 min.

Specifications

M8 3 to 8 Contacts Engineering Specifications			
Specifications			
Operation temperature	With Cable -40°C / +85°C		
	Without Cable -40°C / +105°C		
IP Rating	Panel: IP68 / Cable End: IP68(Mated)		
Number Of Ways	AWG Gauge	Voltage	Amps
3	22~26 AWG	60V AC/DC	3A
4		30V AC/DC	
5			
6	24AWG	30V AC/DC	1.5A
7			
8			
Product Technical Data			
Characteristics	Standard	Description	
Visual and Dimensional Inspection	IEC-60152-1a	Must meet or exceed the requirements specified by the most current version of the M8 Specification (Unmated).	
Polarisation Method	IEC 60512-13e	Insertion force 35 N min.	
Contact Resistance	IEC 60512-2a	10mΩ at 10mA Max.	
Insulation Resistance	IEC 60512-3a	Test Voltage 500V±15 VDC Method A, Be more than 100MΩ	
Withstanding Voltage	IEC 60512-4a	3 Ways: 1000 VAC between Contacts , 850 VAC between contacts and metal-housing, for 1±5s min. 4/5/6/7/8/ Ways: 650 VAC between contacts , 650 VAC between contacts and metal-housing, for 1±5s min.	
Insertion And Withdrawal Force	IEC60512-13b	Max. Speed: 10 mm/s maximum. Insertion force 23 N maximum Withdrawal force 23 N maximum	

Product Technical Data			
Characteristics	Standard	Description	
Gauge Retention Force	IEC60512-16e	Retention force 20g	
Vibration	IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. No discontinuities of 1 μ s Frequency: 10 to 500 Hz , 0.35mm or 50 mm/s ² Sweep cycles: 10 Full duration: 6h	
Shock	IEC 60512-6c	The electrical load conditions shall be 100mA maximum for all contacts. No discontinuities of 1 μ s. Half sine Shock acceleration : 490 m/s ² (50g) Duration of impact : 11ms	
Mechanical Operation	IEC 60512-9a	Cycles : 100 Max. speed of operations : 10mm/s Rest : 30 s , unmated	
Rapid Change Of Temperature	IEC 60512-11d	3~5 ways	-25°C to 85°C, t=30 min. 5 cycles
		6~8ways	-25°C to 85°C, t=1hr. 5 cycles
Dry Heat	IEC 60512-11i	85°C, duration 16h	
Damp Heat Cyclic , First Cycle	IEC 60512-11m	40°C, recovery time 2h	
Cold	IEC 60512-11j	-25°C, duration 2h , recovery time 2h	
Damp Heat, Cyclic Remaining Cycles	IEC 60512-11m	40°C, recovery time 2h , 5 cycles	
Electrical Load And Temperature	IEC 60512-9b	3~5 ways	Duration : 1000h Amb. Temp, : 40°C Current Load : 4A Recovery time : 2h
		6~8ways	Duration : 1000h Amb. Temp, : 40°C Current Load : 1.5A Recovery time : 2h
Salt Spray	EIA 364-26 or IEC 60512-11f	LAB temperature is 35°C Salt solution concentration shall be 5%. Compressing the air pressure is 0.083Mpa to 0.13 MPa (12 lb to 18 lb per square inch) Orifices of from 0.5 to 0.7 millimeter (0.02 to 0.03 inch) in diameter. Atomization of approximately 2.8 liters (3 quarts) of the salt solution per 0.28 cubic meter (10 cubic feet) of box volume per 24h Test Time:condition B 48h	

Product Technical Data		
Characteristics	Standard	Description
UV Exposure	ASTM G154-06	24Hr equal 1 year:Total require 3 years 8 h UV at 70 (±3) °C Black Panel Temperature 4 h Condensation at 50 (±3) °C Black Panel Temperature
Waterproof Test	IEC 60529	Under 1 M water for 24h

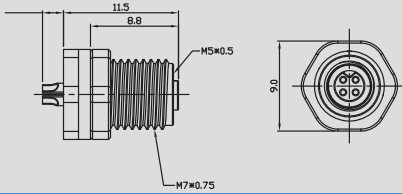
Specifications

M12 2 to 12 Contacts Engineering Specifications			
Specifications			
Operation temperature	With Cable -40°C / +85°C		
	Without Cable -40°C / +105°C		
IP Rating	Panel: IP68 / Cable End: IP68(Mated)		
Number Of Ways	AWG Gauge	Voltage	Amps
2	18~24AWG	250VAC/DC	4A
3			
4			
5		60VAC/DC	
6	22~28AWG	30VAC/DC	2A
7			
8			
9	24~28 AWG	30VAC/DC	1.5A
10			
11			
12			
Product Technical Data			
Characteristics	Standard	Description	
Visual and Dimensional Inspection	IEC-60152-1a	Must meet or exceed the requirements specified by the most current version of the M12 Specification (Unmated).	

Product Technical Data			
Characteristics	Standard	Description	
Polarisation Method	IEC 60512-13e	Insertion force 35 N min.	
Contact Resistance	IEC 60512-2a	10mΩ at 10mA Max.	
Insulation Resistance	IEC 60512-3a	Test Voltage 500V±15 VDC Method A, Be more than 100MΩ	
Withstanding Voltage	IEC 60512-4a	<p>2/3/4 Ways: 1400 VAC between contacts , 1400 VAC between contacts and metal-housing, for 1±5s min.</p> <p>5 Ways: 1000 VAC between contacts , 1000 VAC between contacts and metal-housing, for 1±5s min.</p> <p>6/7/8Ways: 650 VAC between contacts , 650 VAC between contacts and metal-housing, for 1±5s min.</p> <p>9/10/11/12 Ways: 500 VAC between contacts , 500 VAC between contacts and metal-housing, for 1±5s min.</p>	
Insertion And Withdrawal Force	IEC60512-13b	2/3/4/5 Ways	Max. Speed: 10 mm/s maximum. Insertion force 10 N maximum Withdrawal force 15 N maximum
		6/7/8/9/10/11/12 Ways	Max. Speed: 10 mm/s maximum. Insertion force 23 N maximum Withdrawal force 30 N maximum
Gauge Retention Force	IEC60512-16e	Retention force 20g	
Vibration	IEC 60512-6d	<p>The electrical load conditions shall be 100mA maximum for all contacts. No discontinuities of 1 μs</p> <p>Frequency: 10 to 500 Hz , 0.35mm or 50 mm/s²</p> <p>Sweep cycles: 10 Full duration: 6h</p>	
Shock	IEC 60512-6c	<p>The electrical load conditions shall be 100mA maximum for all contacts. No discontinuities of 1 μs.</p> <p>Half sine</p> <p>Shock acceleration : 490 m/s²(50g)</p> <p>Duration of impact : 11ms</p>	
Mechanical Operation	IEC 60512-9a	<p>Cycles : 100</p> <p>Max. speed of operations : 10mm/s</p> <p>Rest : 30 s , unmated</p>	
Rapid Change Of Temperature	IEC 60512-11d	-25°C to 85°C, t=30 min. 5 cycles	
Dry Heat	IEC 60512-11i	85°C, duration 16h	
Damp Heat Cyclic , First Cycle	IEC 60512-11m	40°C, recovery time 2h	

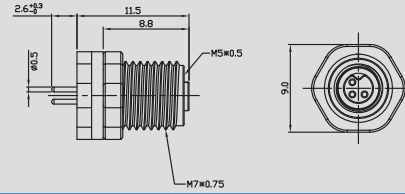
Product Technical Data		
Characteristics	Standard	Description
Cold	IEC 60512-11j	-25°C, duration 2h , recovery time 2h
Damp Heat, Cyclic Remaining Cycles	IEC 60512-11m	40°C, recovery time 2h , 5 cycles
Electrical Load And Temperature	IEC 60512-9b	Duration : 1000h Amb. Tem, : 40°C Current Load : 4A Recovery time : 2h
Salt Spray	EIA 364-26 or IEC 60512-11f	LAB temperature is 35°C Salt solution concentration shall be 5%. Compressing the air pressure is 0.083Mpa to 0.13 MPa (12 lb to 18 lb per square inch) Orifices of from 0.5 to 0.7 millimeter (0.02 to 0.03 inch) in diameter. Atomization of approximately 2.8 liters (3 quarts) of the salt solution per 0.28 cubic meter (10 cubic feet) of box volume per 24h Test Time:condition B 48h
UV Exposure	ASTM G154-06	24Hr equal 1 year:Total require 3 years 8 h UV at 70 (±3) °C Black Panel Temperature 4 h Condensation at 50 (±3) °C Black Panel Temperature
Waterproof Test	IEC 60529	Under 1 M water for 24h

M5 Panel Front Mount Female Solder



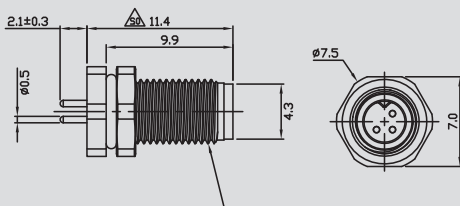
P/N	Rated current (A)	Contacts
GT231102-05020	1	2
GT231102-05030	1	3
GT231102-05040	1	4

M5 Panel Front Mount Female Dip



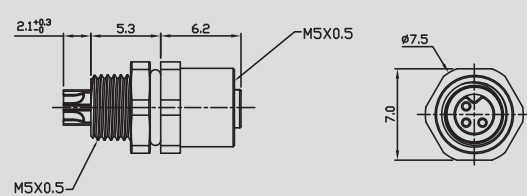
P/N	Rated current (A)	Contacts
GT231102-15020	1	2
GT231102-15030	1	3
GT231102-15040	1	4

M5 Panel Front Mount Male Dip



P/N	Rated current (A)	Contacts
GT231112-15020	1	2
GT231112-15030	1	3
GT231112-15040	1	4

M5 Panel Rear Mount Female Solder

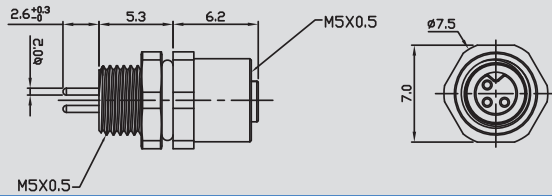


P/N	Rated current (A)	Contacts
GT231103-05030	1	2
GT231103-05030	1	3
GT231103-05040	1	4

M5 METAL PANEL MOUNT

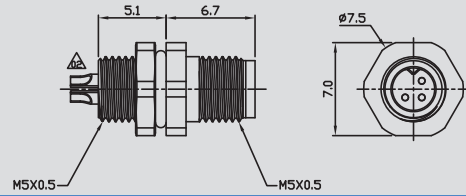
Sensor

M5 Panel Rear Mount Female Dip



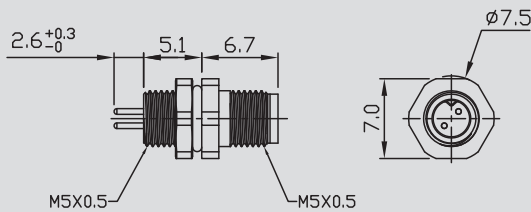
P/N	Rated current (A)	Contacts
GT231103-15020	1	2
GT231103-15030	1	3
GT231103-15040	1	4

M5 Panel Rear Mount Male Solder



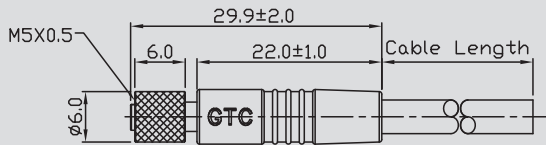
P/N	Rated current (A)	Contacts
GT231113-05020	1	2
GT231113-05030	1	3
GT231113-05040	1	4

M5 Panel Rear Mount Male Dip



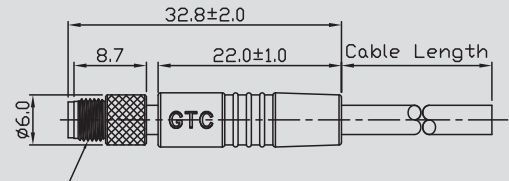
P/N	Rated current (A)	Contacts
GT231113-15020	1	2
GT231113-15030	1	3
GT231113-15040	1	4

M5 Cable End Female



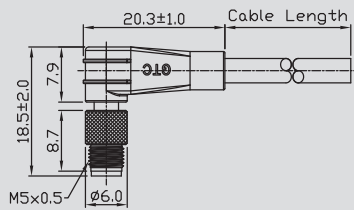
P/N	Rated current (A)	Contacts
GT2311A4-0502X-XX	1	2
GT2311A4-0503X-XX	1	3
GT2311A4-0504X-XX	1	4

M5 Cable End Male



P/N	Rated current (A)	Contacts
GT2311B4-0502X-XX	1	2
GT2311B4-0503X-XX	1	3
GT2311B4-0504X-XX	1	4

M5 Cable End 90° Male

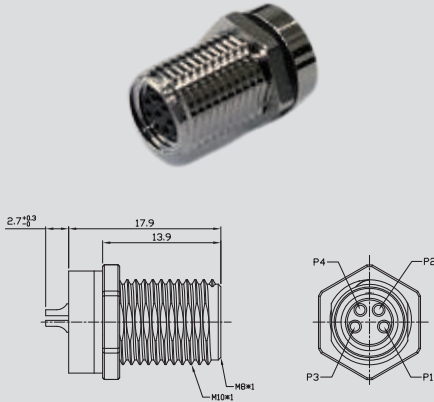


P/N	Rated current (A)	Contacts
GT2311B5-0502X-XX	1	2
GT2311B5-0503X-XX	1	3
GT2311B5-0504X-XX	1	4

M8 METAL PANEL MOUNT

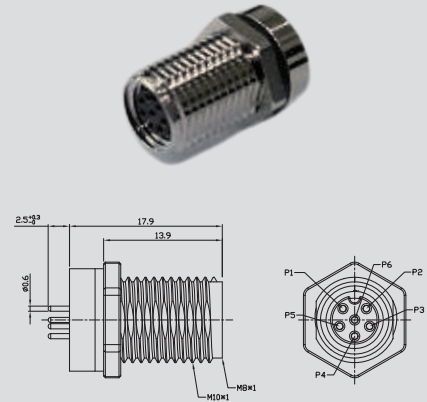
Sensor

M8 A-Coding Panel Front Mount Female Solder



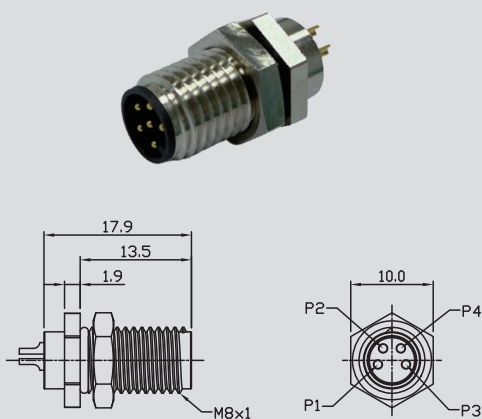
P/N	Rated current (A)	Contacts
GT232102-04060	1.5	6
GT232102-04080	1.5	8
GT232102-03030	3	3
GT232102-03040	3	4

M8 A-Coding Panel Front Mount Female Dip



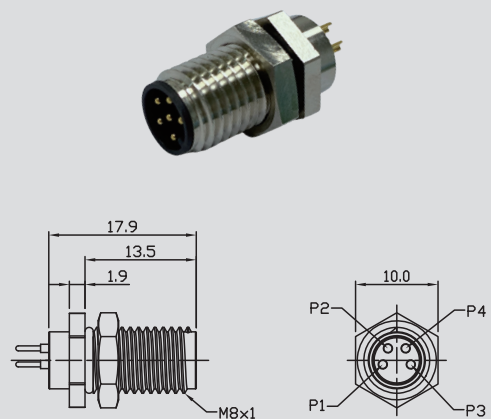
P/N	Rated current (A)	Contacts
GT232102-14060	1.5	6
GT232102-14080	1.5	8
GT232102-13030	3	3
GT232102-13040	3	4

M8 A-Coding Panel Front Mount Male Solder



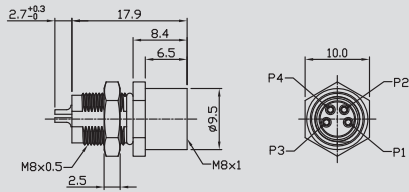
P/N	Rated current (A)	Contacts
GT232112-04060	1.5	6
GT232112-04080	1.5	8
GT232112-060A0	2+1	2+6
GT232112-03030	3	3
GT232112-03040	3	4

M8 A-Coding Panel Front Mount Male Dip



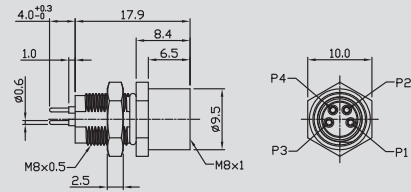
P/N	Rated current (A)	Contacts
GT232112-14060	1.5	6
GT232112-14080	1.5	8
GT232112-13030	3	3
GT232112-13040	3	4

M8 A-coding Panel Rear Mount Female Solder



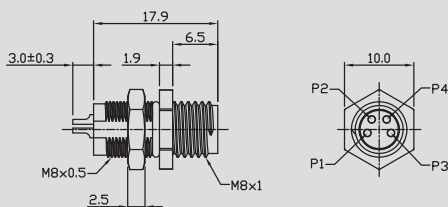
P/N	Rated current (A)	Contacts
GT232103-04060	1.5	6
GT232103-04080	1.5	8
GT232103-03030	3	3
GT232103-03040	3	4

M8 A-Coding Panel Rear Mount Female Dip



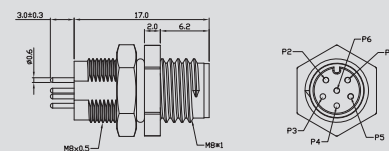
P/N	Rated current (A)	Contacts
GT232103-14060	1.5	6
GT232103-14080	1.5	8
GT232103-13030	3	3
GT232103-13040	3	4

M8 A-Coding Panel Rear Mount Male Solder



P/N	Rated current (A)	Contacts
GT232113-04060	1.5	6
GT232113-04080	1.5	8
GT232113-03030	3	3
GT232113-03040	3	4

M8 A-Coding Panel Rear Mount Male Dip

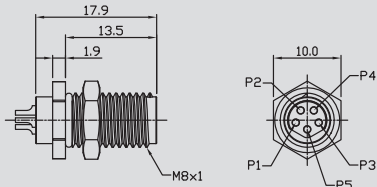


P/N	Rated current (A)	Contacts
GT232113-14060	1.5	6
GT232113-14080	1.5	8
GT232113-13030	3	3
GT232113-13040	3	4

M8 METAL PANEL MOUNT

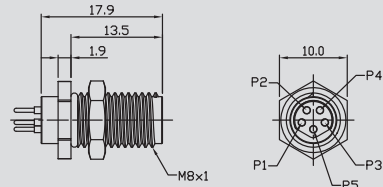
Sensor

M8 B-Coding Panel Front Mount Male Solder



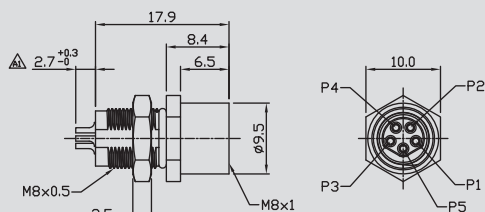
P/N	Rated current (A)	Contacts
GT232212-03050	3	5

M8 B-Coding Panel Front Mount Male Dip



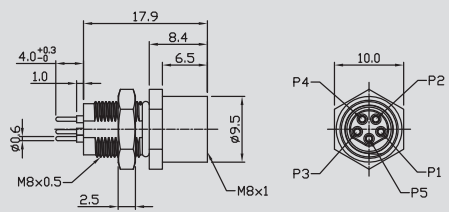
P/N	Rated current (A)	Contacts
GT232212-13050	3	5

M8 B-Coding Panel Rear Mount Female Solder



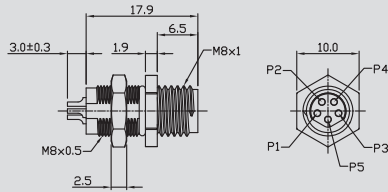
P/N	Rated current (A)	Contacts
GT232203-03050	3	5

M8 B-Coding Panel Rear Mount Female Dip



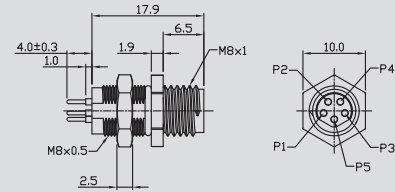
P/N	Rated current (A)	Contacts
GT232203-13050	3	5

M8 B-Coding Panel Rear Mount Male Solder



P/N	Rated current (A)	Contacts
GT232213-03050	3	5

M8 B-Coding Panel Rear Mount Male Dip

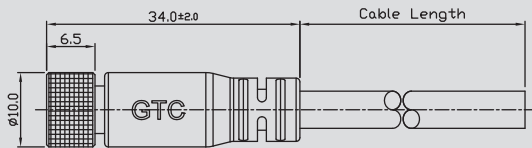


P/N	Rated current (A)	Contacts
GT232213-13050	3	5

M8 METAL CABLE END

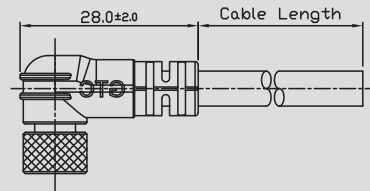
Sensor

M8 A-Coding Cable End Female



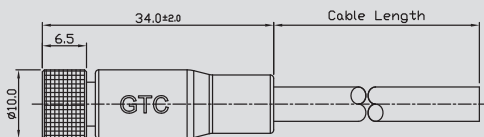
P/N	Rated current (A)	Contacts
GT232124-2406X-XX	1.5	6
GT232124-2408X-XX	1.5	8
GT232124-2303X-XX	3	3
GT232124-2304X-XX	3	4

M8 A-Coding Cable End 90° Female



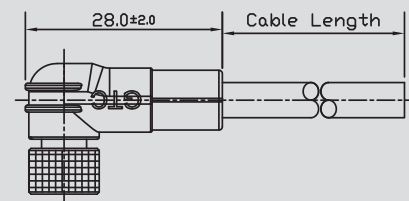
P/N	Rated current (A)	Contacts
GT232125-2303X-XX	3	3
GT232125-2304X-XX	3	4

M8 A-Coding Cable End Female without SR



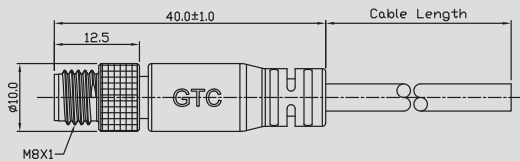
P/N	Rated current (A)	Contacts
GT2321A4-2303X-XX	3	3
GT2321A4-2304X-XX	3	4

M8 A-Coding Cable End 90° Female without SR



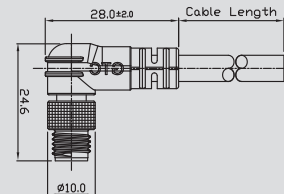
P/N	Rated current (A)	Contacts
GT2321A5-2303X-XX	3	3
GT2321A5-2304X-XX	3	4

M8 A-Coding Cable End Male



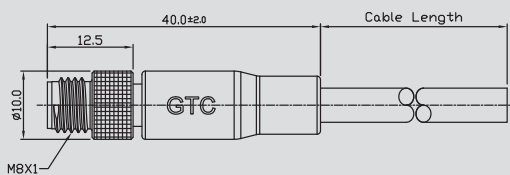
P/N	Rated current (A)	Contacts
GT232134-2406X-XX	1.5	6
GT232134-2408X-XX	1.5	8
GT232134-2303X-XX	3	3
GT232134-2304X-XX	3	4

M8 A-Coding Cable End 90° Male



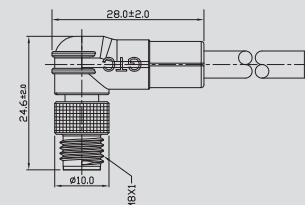
P/N	Rated current (A)	Contacts
GT232135-2303X-XX	3	3
GT232135-2304X-XX	3	4

M8 A-Coding Cable End Male without SR



P/N	Rated current (A)	Contacts
GT2321B4-2303X-XX	3	3
GT2321B4-2304X-XX	3	4

M8 A-Coding Cable End 90° Male without SR

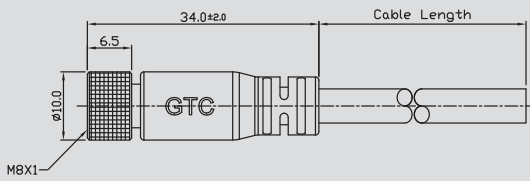


P/N	Rated current (A)	Contacts
GT2321B5-2303X-XX	3	3
GT2321B5-2304X-XX	3	4

M8 METAL CABLE END

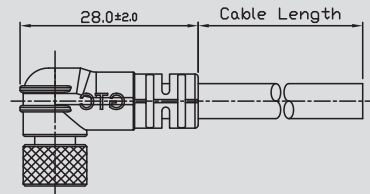
Sensor

M8 B-Coding Cable End Female



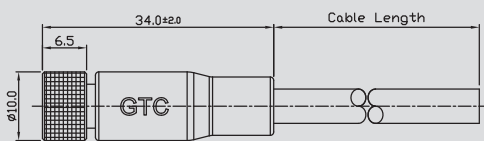
P/N	Rated current (A)	Contacts
GT232224-2305X-XX	3	5

M8 B-Coding Cable End 90° Female



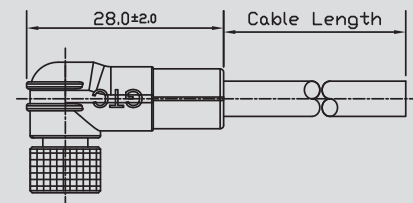
P/N	Rated current (A)	Contacts
GT232225-2305X-XX	3	5

M8 B-Coding Cable End Female without SR



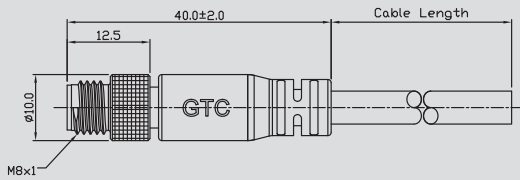
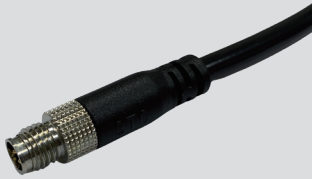
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GT2322A4-2305X-XX	3	5

M8 B-Coding Cable End 90° Female without SR



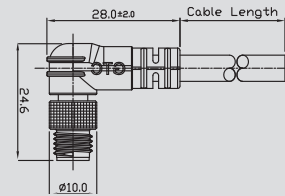
P/N	Rated current (A)	Contacts
GT2322A5-2305X-XX	3	5

M8 B-Coding Cable End Male



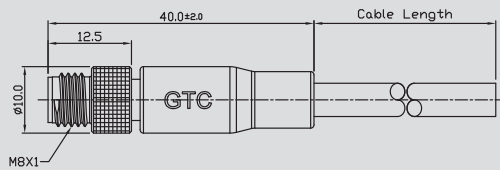
P/N	Rated current (A)	Contacts
GT232234-2305X-XX	3	5

M8 B-Coding Cable End 90° Male



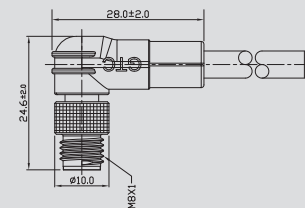
P/N	Rated current (A)	Contacts
GT232235-2305X-XX	3	5

M8 B-Coding Cable End Male without SR



P/N	Rated current (A)	Contacts
GT2322B4-2305X-XX	3	5

M8 B-Coding Cable End 90° Male without SR

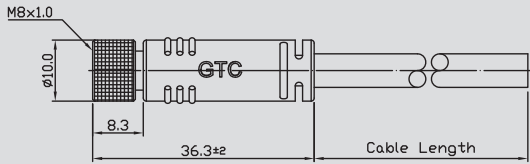


P/N	Rated current (A)	Contacts
GT2322B5-2305X-XX	3	4

M8 SHIELDED METAL CABLE END

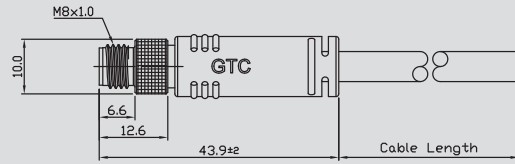
Sensor

M8 A-Coding Shielded Cable End Female



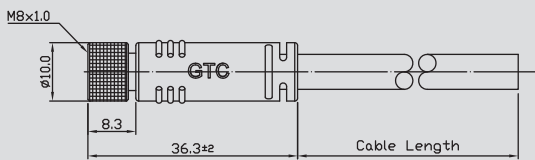
P/N	Rated current (A)	Contacts
GT23B124-2408X-XX	1.5	8
GT23B124-2303X-XX	3	3
GT23B124-2304X-XX	3	4

M8 A-Coding Shielded Cable End Male



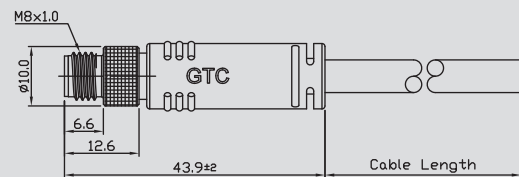
P/N	Rated current (A)	Contacts
GT23B134-2303X-XX	3	3
GT23B134-2304X-XX	3	4

M8 B-Coding Shielded Cable End Female



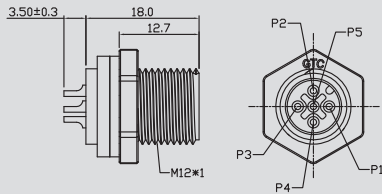
P/N	Rated current (A)	Contacts
GT23B224-2305X-XX	3	5

M8 B-Coding Shielded Cable End Male



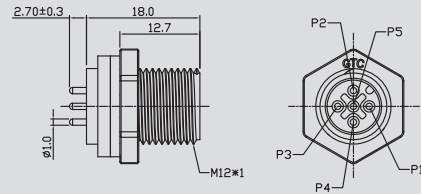
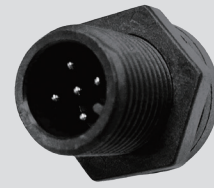
P/N	Rated current (A)	Contacts
GT23B234-2305X-XX	3	5

M12 A-Coding Plastic Panel Male Solder



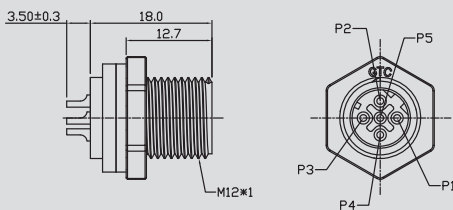
P/N	Rated current (A)	Contacts
GT134110-02050	4	5

M12 A-Coding Plastic Panel Male Dip



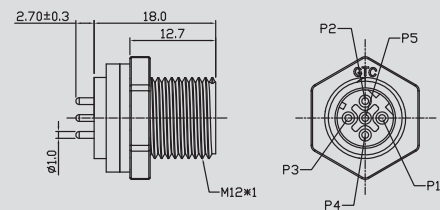
P/N	Rated current (A)	Contacts
GT134110-12050	4	5

M12 D-Coding Plastic Panel Male Solder



P/N	Rated current (A)	Contacts
GT134410-02050	4	5

M12 D-Coding Plastic Panel Male Dip

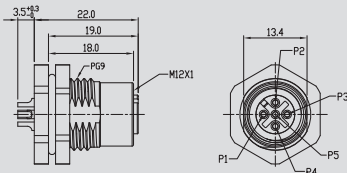


P/N	Rated current (A)	Contacts
GT134410-12050	4	5

M12 METAL PANEL MOUNT

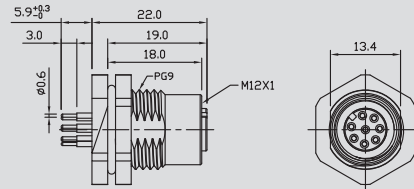
Sensor

M12 A-Coding Panel Front Mount Female Solder



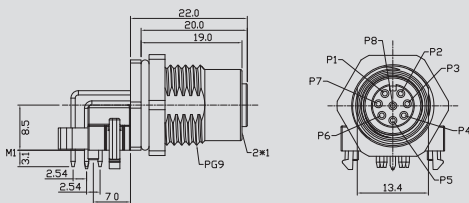
P/N	Rated current (A)	Contacts
GT234102-04120	1.5	12
GT234102-01080	2	8
GT234102-02030	4	3
GT234102-02040	4	4
GT234102-02050	4	3

M12 A-Coding Panel Front Mount Female Dip



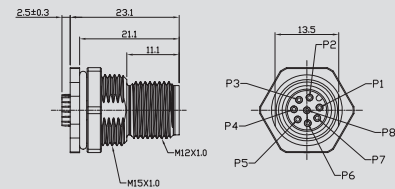
P/N	Rated current (A)	Contacts
GT234102-14120	1.5	12
GT234102-11080	2	8
GT234102-12030	4	3
GT234102-12040	4	4
GT234102-12050	4	3

M12 A-Coding Panel Front Mount Female Dip 90°



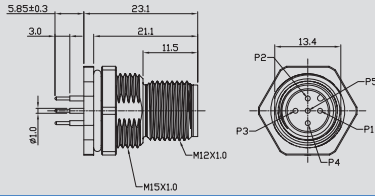
P/N	Rated current (A)	Contacts
GT234102-41080	2	8

M12 A-Coding Panel Front Mount Male Solder



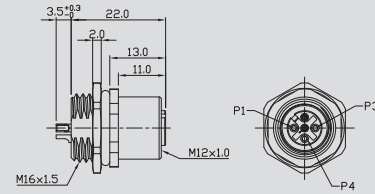
P/N	Rated current (A)	Contacts
GT234112-04120	1.5	12
GT234112-01080	2	8
GT234112-02030	4	3
GT234112-02040	4	4
GT234112-02050	4	5

M12 A-Coding Panel Front Male Dip



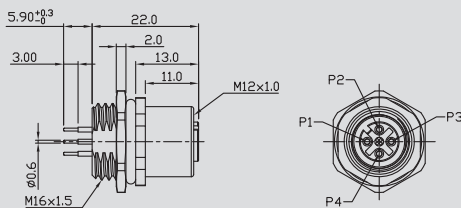
P/N	Rated current (A)	Contacts
GT234112-14120	1.5	12
GT234112-14170	1.5	17
GT234112-11080	2	8
GT234112-12030	4	3
GT234112-12040	4	4
GT234112-12050	4	5

M12 A-Coding Panel Rear Mount Female Solder



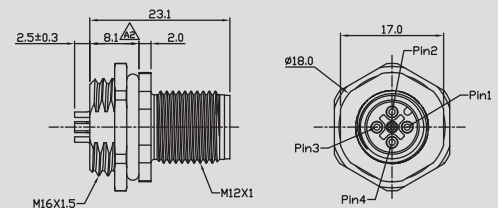
P/N	Rated current (A)	Contacts
GT234103-04120	1.5	12
GT234103-01080	2	8
GT234103-02030	4	3
GT234103-02040	4	4
GT234103-02050	4	5

M12 A-Coding Panel Rear Mount Female Dip



P/N	Rated current (A)	Contacts
GT234103-14120	1.5	12
GT234103-11080	2	8
GT234103-12030	4	3
GT234103-12040	4	4
GT234103-12050	4	5

M12 A-Coding Panel Rear Mount Male Solder

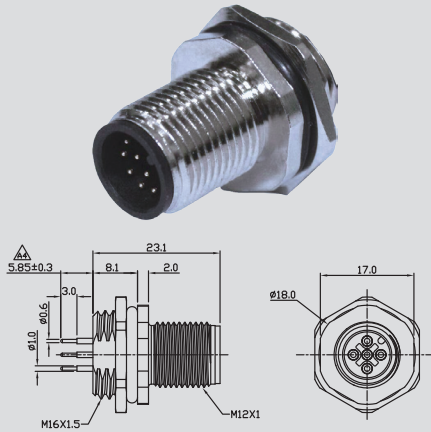


P/N	Rated current (A)	Contacts
GT234113-04120	1.5	12
GT234113-01080	2	8
GT234113-02030	4	3
GT234113-02040	4	4
GT234113-02050	4	5

M12 METAL PANEL MOUNT

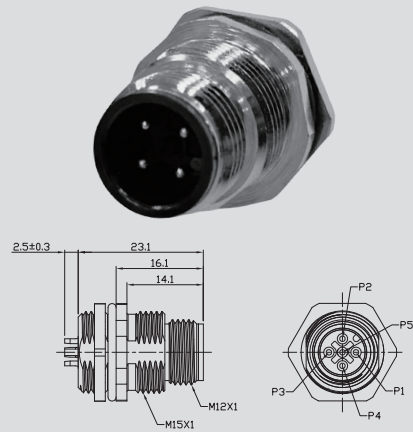
Sensor

M12 A-Coding Panel Rear Mount Male Dip



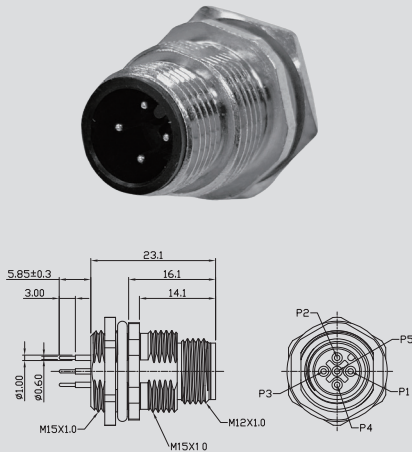
P/N	Rated current (A)	Contacts
GT234113-14120	1.5	12
GT234113-11080	2	8
GT234113-12030	4	3
GT234113-12040	4	4
GT234113-12050	4	3

M12 A-Coding Panel Front/ Rear Mount Male Solder



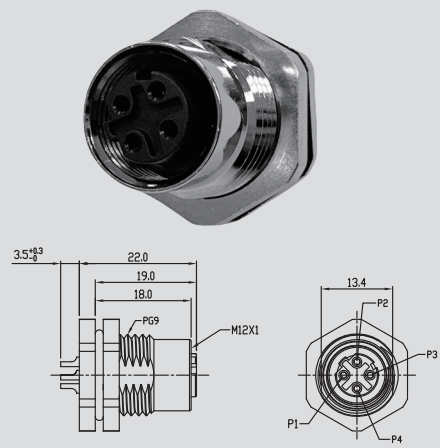
P/N	Rated current (A)	Contacts
GT234117-04120	1.5	12
GT234117-01080	2	8
GT234117-02030	4	3
GT234117-02040	4	4
GT234117-02050	4	3

M12 A-Coding Panel Front/ Rear Mount Male Dip



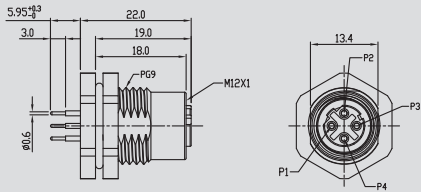
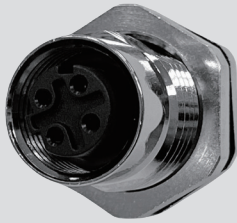
P/N	Rated current (A)	Contacts
GT234117-14120	1.5	12
GT234117-11080	2	8
GT234117-12030	4	3
GT234117-12040	4	4
GT234117-12050	4	5

M12 D-Coding Panel Front Mount Female Solder



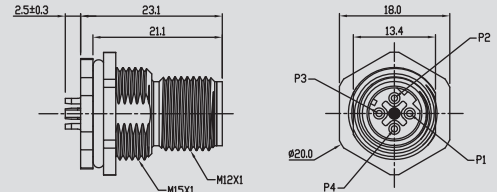
P/N	Rated current (A)	Contacts
GT234402-02040	4	4

M12 D-Coding Panel Front Mount Female Dip



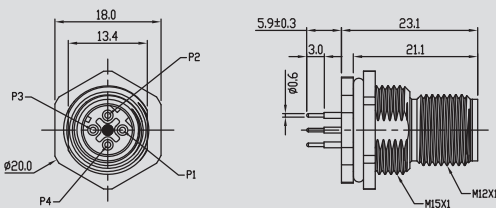
P/N	Rated current (A)	Contacts
GT234402-12040	4	4

M12 D-Coding Panel Front Mount Male Solder



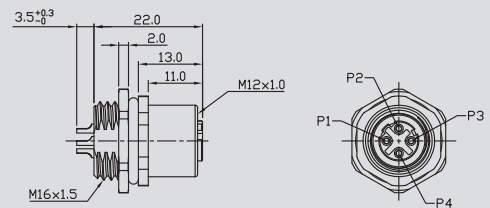
P/N	Rated current (A)	Contacts
GT234412-02040	4	4

M12 D-Coding Panel Front Mount Male Dip



P/N	Rated current (A)	Contacts
GT234412-12040	4	4

M12 D-Coding Panel Rear Mount Female Solder

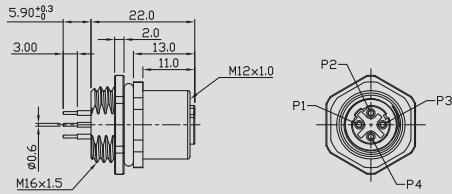


P/N	Rated current (A)	Contacts
GT234403-02040	4	4

M12 METAL PANEL MOUNT

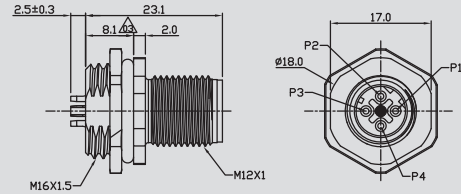
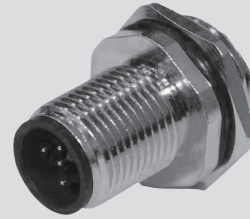
Sensor

M12 D-Coding Panel Rear Mount Female Dip



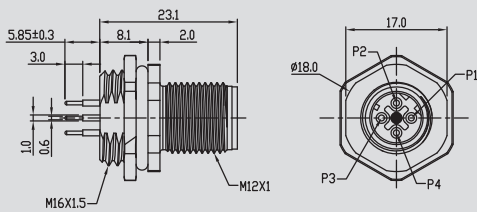
P/N	Rated current (A)	Contacts
GT234403-12040	4	4

M12 D-Coding Panel Rear Mount Male Solder



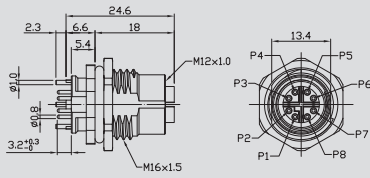
P/N	Rated current (A)	Contacts
GT234413-02040	4	4

M12 D-Coding Panel Rear Mount Male Dip



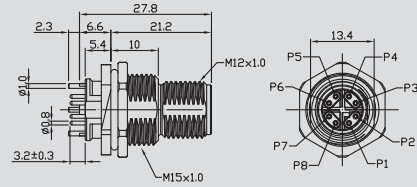
P/N	Rated current (A)	Contacts
GT234413-12040	4	4

M12 X-Coding Panel Front Mount Female Dip



P/N	Rated current (A)	Contacts
GT234602-18080	0.5	8

M12 X-Coding Panel Front Mount Male Dip

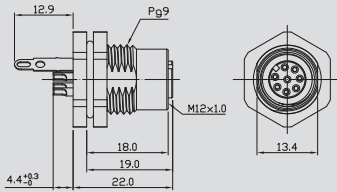


P/N	Rated current (A)	Contacts
GT234612-18080	0.5	8

M12 SHIELDED METAL PANEL MOUNT

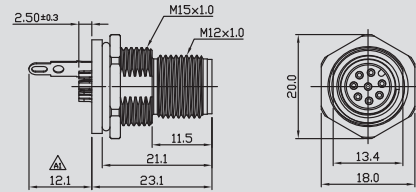
Sensor

M12 A-Coding Shielded Panel Front Mount Female Solder



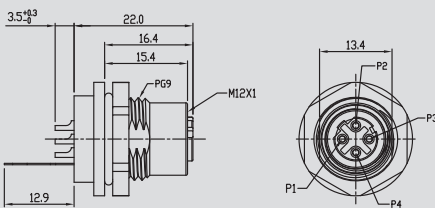
P/N	Rated current (A)	Contacts
GT238102-04120	1.5	12
GT238102-01080	2	8
GT238102-02050	4	5
GT238102-02040	4	4
GT238102-02030	4	3

M12 A-Coding Shielded Panel Front Mount Circular Flange Male Solder



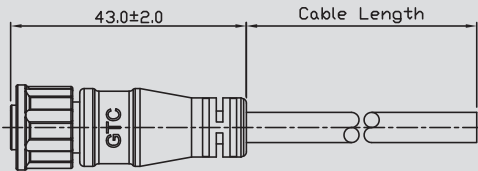
P/N	Rated current (A)	Contacts
GT238110-04120	1.5	12
GT238110-01080	2	8
GT238110-02030	4	3
GT238110-02040	4	4
GT238110-02050	4	3

M12 D-Coding Shielded Panel Front Mount Female Solder



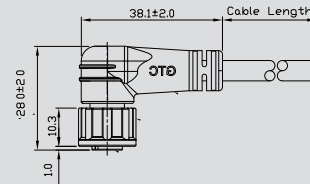
P/N	Rated current (A)	Contacts
GT238400-02040	4	4

M12 A-Coding Plastic Cable End Female



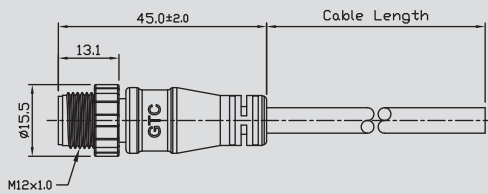
P/N	Rated current (A)	Contacts
GT134124-0412X-XX	1.5	12
GT134124-2108X-XX	2	8
GT134124-2205X-XX	4	3

M12 A-Coding Plastic Cable End 90° Female



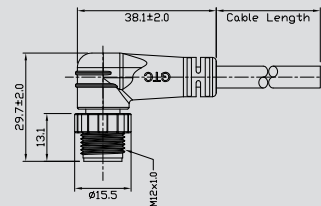
P/N	Rated current (A)	Contacts
GT134125-0412X-XX	1.5	12
GT134125-2108X-XX	2	8
GT134125-2205X-XX	4	5

M12 A-Coding Plastic Cable End Male



P/N	Rated current (A)	Contacts
GT134134-0412X-XX	1.5	12
GT134134-2108X-XX	2	8
GT134134-2205X-XX	4	5

M12 A-Coding Plastic Cable End 90° Male

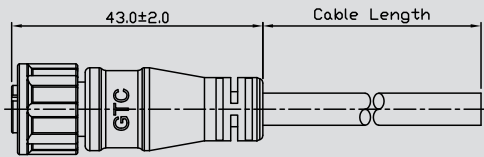


P/N	Rated current (A)	Contacts
GT134135-0412X-XX	1.5	12
GT134135-2108X-XX	2	8
GT134135-2205X-XX	4	5

M12 PLASTIC CABLE END

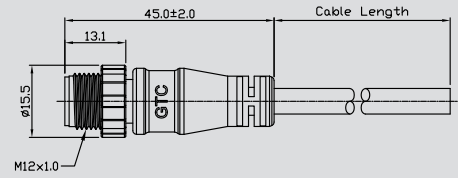
Sensor

M12 D-Coding Plastic Cable End Female



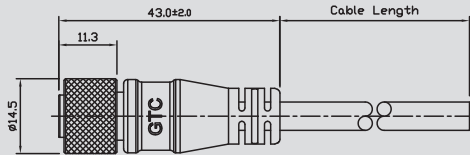
P/N	Rated current (A)	Contacts
GT134424-2204X-XX	4	4

M12 D-Coding Plastic Cable End Male



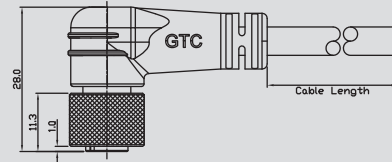
P/N	Rated current (A)	Contacts
GT134434-2204X-XX	4	4

M12 A-Coding Cable End Female



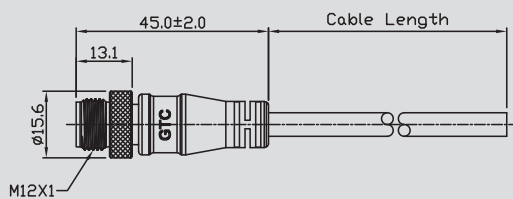
P/N	Rated current (A)	Contacts	Remark
GT234124-0412X-XX	1.5	12	
GT234124-2108X-XX	2	8	
GT234124-21086-XX	2	8	+Cat5e Cable
GT234124-2203X-XX	4	3	
GT234124-2204X-XX	4	4	
GT234124-2205X-XX	4	5	

M12 A-Coding Cable End 90° Female



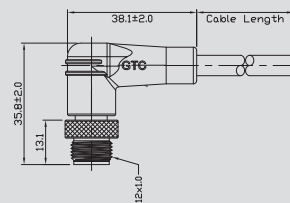
P/N	Rated current (A)	Contacts	Remark
GT234125-0412X-XX	1.5	12	
GT234125-2108X-XX	2	8	
GT234125-21086-XX	2	8	+Cat5e Cable
GT234125-2203X-XX	4	3	
GT234125-2204X-XX	4	4	
GT234125-2205X-XX	4	5	

M12 A-Coding Cable End Male



P/N	Rated current (A)	Contacts	Remark
GT234134-0412X-XX	1.5	12	
GT234134-2108X-XX	2	8	
GT234134-21086-XX	2	8	+Cat5e Cable
GT234134-2203X-XX	4	3	
GT234134-2204X-XX	4	4	
GT234134-2205X-XX	4	5	

M12 A-Coding Cable End 90° Male

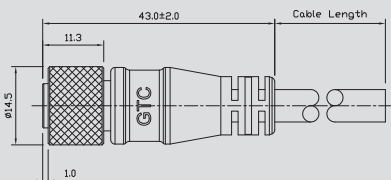


P/N	Rated current (A)	Contacts	Remark
GT234135-0412X-XX	1.5	12	
GT234135-2108X-XX	2	8	
GT234135-21086-XX	2	8	+Cat5e Cable
GT234135-2203X-XX	4	3	
GT234135-2204X-XX	4	4	
GT234135-2205X-XX	4	5	

M12 METAL CABLE END

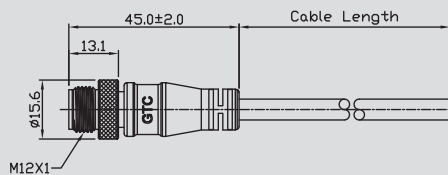
Sensor

M12 B-Coding Cable End Female



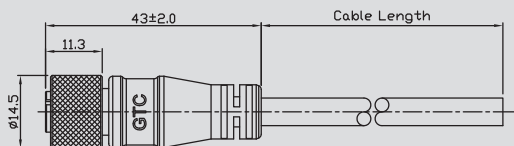
P/N	Rated current (A)	Contacts
GT234224-2205X-XX	4	5

M12 B-Coding Cable End Male



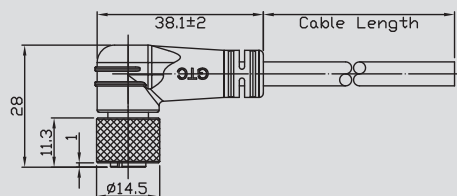
P/N	Rated current (A)	Contacts
GT234234-2205X-XX	4	5

M12 D-Coding Cable End Female



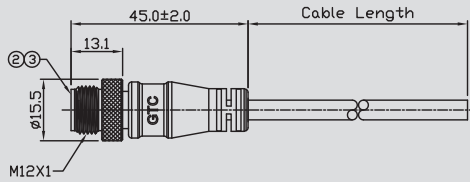
P/N	Rated current (A)	Contacts	Remark
GT234424-2204X-XX	4	4	
GT234424-22046-XX	4	4	+Cat5e Cable
GT234424-2204P-XX	4	4	+ RJ Plug
GT234424-2205X-XX	4	5	

M12 D-Coding Cable End 90° Female



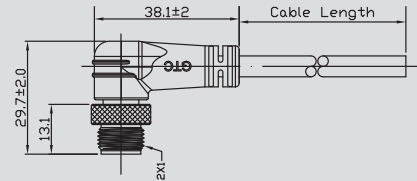
P/N	Rated current (A)	Contacts	Remark
GT234425-2204X-XX	4	4	
GT234425-22046-XX	4	4	+Cat5e Cable
GT234425-2204P-XX	4	4	+ RJ Plug
GT234425-2205X-XX	4	5	

M12 D-Coding Cable End Male



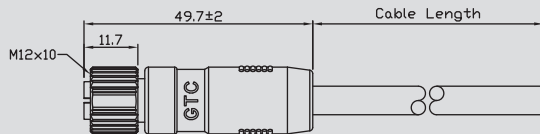
P/N	Rated current (A)	Contacts	Remark
GT234434-2204X-XX	4	4	
GT234434-22046-XX	4	4	+Cat5e Cable
GT234434-2204P-XX	4	4	+ RJ Plug
GT234434-2205X-XX	4	5	

M12 D-Coding Cable End 90° Male



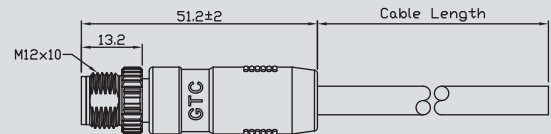
P/N	Rated current (A)	Contacts	Remark
GT234435-2204X-XX	4	4	
GT234434-22046-XX	4	4	+Cat5e Cable
GT234434-2204P-XX	4	4	+ RJ Plug
GT234435-2205X-XX	4	5	

M12 X-Coding Cable End Female



P/N	Rated current (A)	Contacts
GT234624-2808X-XX	0.5	8

M12 X-Coding Cable End Male

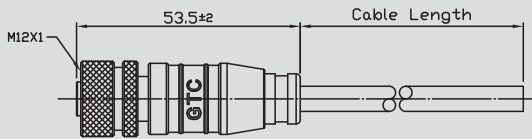


P/N	Rated current (A)	Contacts
GT234634-2808X-XX	0.5	8

M12 SHIELDED METAL CABLE END

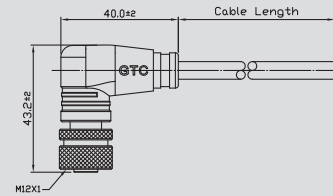
Sensor

M12 A-Coding Shielded Cable End Female without SR



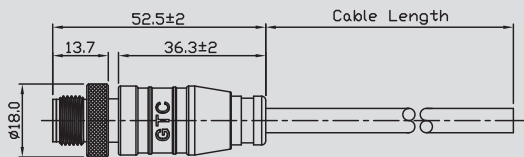
P/N	Rated current (A)	Contacts
GT2381A4-2417X-XX	1.5	17
GT2381A4-2412X-XX	1.5	12
GT2381A4-0108X-XX	2	8
GT2381A4-0203X-XX	4	3
GT2381A4-0204X-XX	4	4
GT2381A4-0205X-XX	4	5

M12 A-Coding Shielded Cable End 90° Female without SR



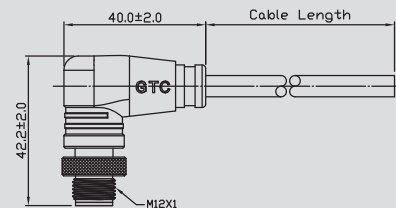
P/N	Rated current (A)	Contacts
GT2381A5-2412X-XX	1.5	12
GT2381A5-0108X-XX	2	8
GT2381A5-0203X-XX	4	3
GT2381A5-0204X-XX	4	4
GT2381A5-0205X-XX	4	5

M12 A-Coding Shielded Cable End Male without SR



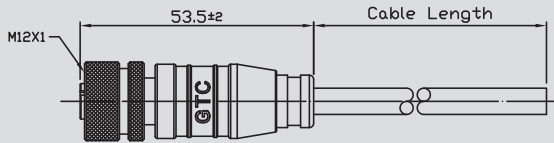
P/N	Rated current (A)	Contacts
GT2381B4-0412X-XX	1.5	12
GT2381B4-0108X-XX	2	8
GT2381B4-0203X-XX	4	3
GT2381B4-0204X-XX	4	4
GT2381B4-0205X-XX	4	5

M12 A-Coding Shielded Cable End 90° Male without SR



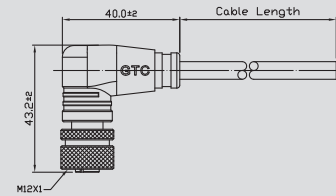
P/N	Rated current (A)	Contacts
GT2381B5-2412X-XX	1.5	12
GT2381B5-0108X-XX	2	8
GT2381B5-0203X-XX	4	3
GT2381B5-0204X-XX	4	4
GT2381B5-0205X-XX	4	5

M12 D-Coding Shielded Cable End Female without SR



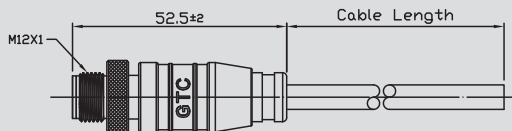
P/N	Rated current (A)	Contacts
GT2384A4-0204X-XX	4	4

M12 D-Coding Shielded Cable End 90° Female without SR



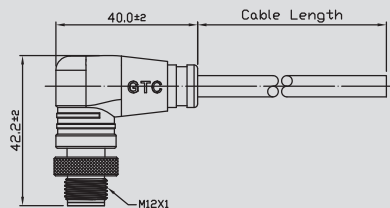
P/N	Rated current (A)	Contacts
GT2384A5-0204X-XX	4	4

M12 D-Coding Shielded Cable End Male without SR



P/N	Rated current (A)	Contacts
GT2384B4-0204X-XX	4	4

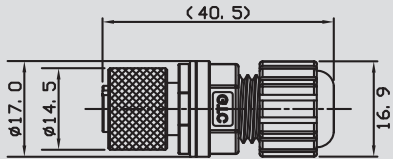
M12 D-Coding Shielded Cable End 90° Male without SR



P/N	Rated current (A)	Contacts
GT2384B5-0204X-XX	4	4

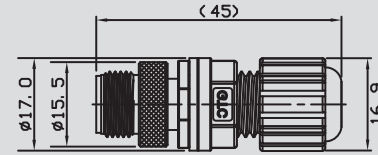
FIELD INSTALLABLE CABLE END

M12 A-Coding Field Installable Cable End Female Solder



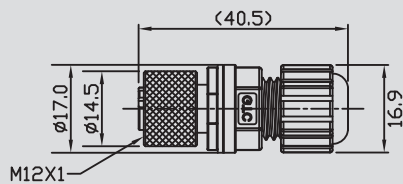
P/N	Rated current (A)	Contacts
GT234144-04120	1.5	12
GT234144-01080	2	8
GT234144-02030	4	3
GT234144-02040	4	4
GT234144-02050	4	5

M12 A-Coding Field Installable Cable End Male Solder



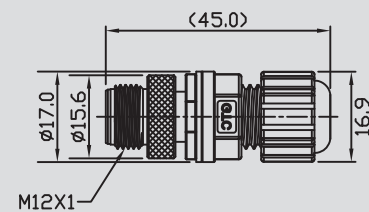
P/N	Rated current (A)	Contacts
GT234154-04120	1.5	12
GT234154-01080	2	8
GT234154-02030	4	3
GT234154-02040	4	4
GT234154-02050	4	5

M12 D-Coding Field Installable Cable End Female Solder



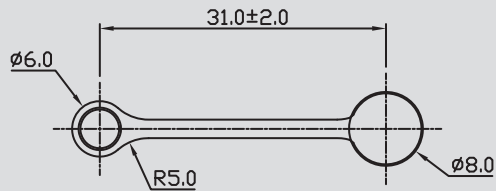
P/N	Rated current (A)	Contacts
GT234444-02040	4	4

M12 D-Coding Field Installable Cable End Male Solder



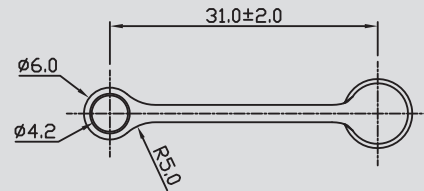
P/N	Rated current (A)	Contacts
GT234454-02040	4	4

Cap For M5 Female End



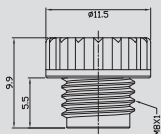
P/N	Mating Series No.
GT5C314092	GT231102 Series
	GT231103 Series

Cap For M5 Male End



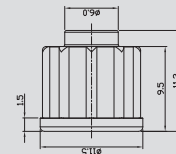
P/N	Mating Series No.
GT5C314192	GT231112 Series
	GT231113 Series

Plastic Cap For M8 Female End



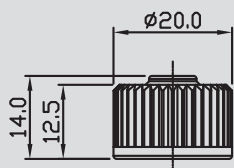
P/N	Mating Series No.
GT1C3230X2	GT232102 Series
	GT232103 Series
	GT232203 Series

Plastic Cap For M8 Male End



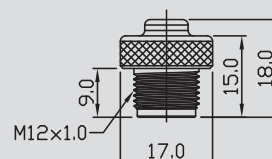
P/N	Mating Series No.
GT1C3231X2	GT232112 Series
	GT232113 Series
	GT232212 Series
	GT232213 Series

Plastic Cap For M12 Male End



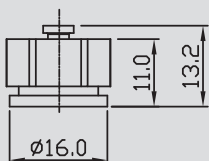
P/N	Mating Series No.
GT1C3431X2	GT134110 Series
	GT134410 Series

Metal Cap For M12 Female End



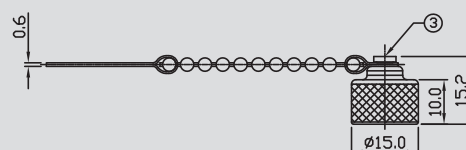
P/N	Mating Series No.
GT2C3430X2	GT234102 Series
	GT234103 Series
	GT234402 Series
	GT234403 Series
	GT234602 Series

Metal Cap Hex Flange For M12 Male End



P/N	Mating Series No.
GT2C3421X2	GT234112 Series
	GT234113 Series
	GT234117 Series
	GT234412 Series
	GT234413 Series
	GT234612 Series

Metal Cap Circular Flange For M12 Male End



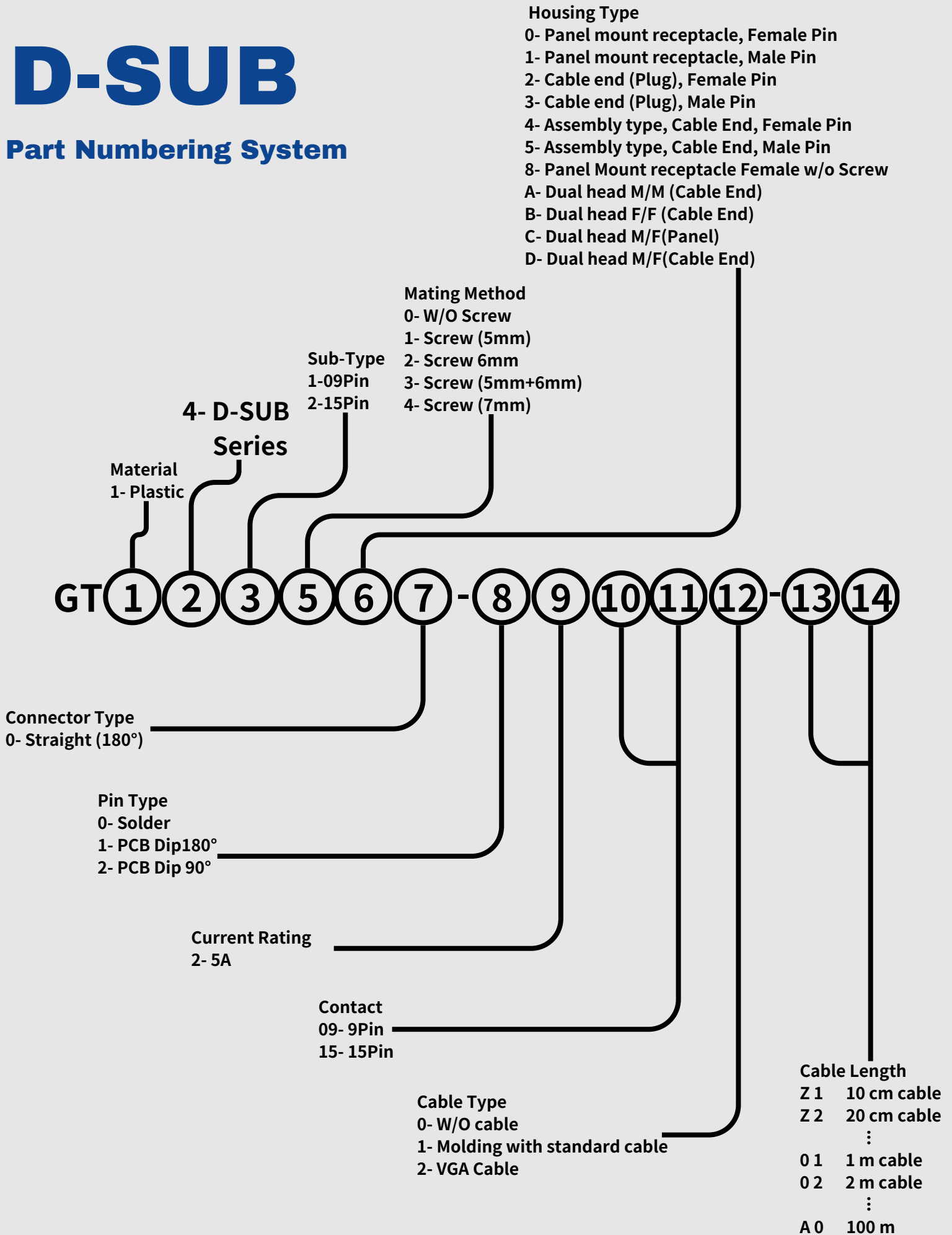
P/N	Mating Series No.
GT2C3431X2	GT234112 Series
	GT234113 Series
	GT234117 Series
	GT234412 Series
	GT234413 Series
	GT234612 Series

D-USB SERIES



D-SUB

Part Numbering System

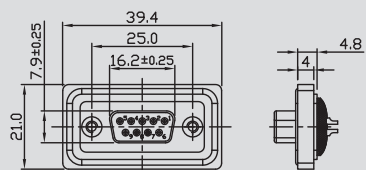


Specifications

D-SUB 9 Pin / HD-SUB 15 Pin Engineering Specifications		
Specifications		
Current Rating	5.0A	
AWG Gauge	20 AWG~24 AWG	
Operation temperature	With Cable -40°C / +85°C	
	Without Cable -40°C / +105°C	
IP Rating	Panel: IP68 / Cable End: IP67	
Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the D-SUB/HD-SUB Specification.
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC500V±10% , test for 1 minute and the insulation resistance should be more than100MΩ
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	1000 V AC contact-to-contact, for 1min.
Contact Resistance	EIA 364-06 or IEC 60512-2b Method B	30mΩ at 10mA Max.
Pin Retention Force	D-SUB 9 Pin EIA 364-35	0.8~2.45N
Pin Normal Force	HD-SUB 15 Pin EIA 364-04	0.8~2.45N
Durability	EIA 364-09 or IEC 60512-9a	500 cycles insertion/extraction cycles at a maximum rate of 200 cycles per hour.
Cable Pull-Out	EIA 364-38 Test Condition A or IEC 60512-13a	After the application of a steady state axial load of 40 N for one minute.

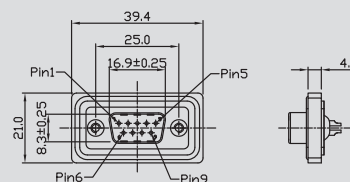
Product Technical Data		
Characteristics	Standard	Description
Cable Flexing	EIA 364-41	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle , the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles , test withstanding voltage and insulation resistance.
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μs or longer duration when mated D-SUB connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.
Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C , after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1-2 ml/80cm/h , Temperature of the pressure barrel is 43°C , LAB temperature is 35°C , relative humidity of LAB is 95%-98% , test time is 24hr , after the test, check if there is rusty and oxidized phenomenon
Waterproof Test	IEC 60529	Under 1 M water for 30 min.
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours .
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31 , Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (± 3) °C Black Panel Temperature 4 h Condensation at 50 (± 3) °C Black Panel Temperature

D-SUB Panel Mount Female Screw



P/N	Rated current (A)	Contacts	Screws
GT146100-02150	5	15	5mm
GT146200-02150	5	15	6mm
GT146300-02150	5	15	5&6mm
GT141300-02090	5	9	5&6mm

D-SUB Panel Mount Male Screw

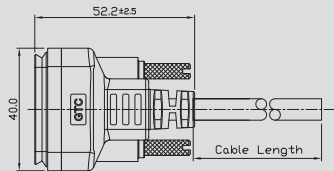


P/N	Rated current (A)	Contacts	Screws
GT141210-02090	5	9	6mm
GT141410-02090	5	9	7mm
GT141310-02090	5	9	5&6mm
GT146310-02150	5	15	5&6mm

PLASTIC CABLE END

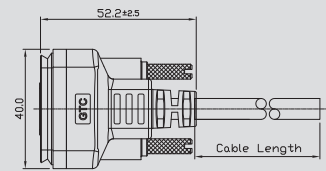
D-SUB

D-SUB Cable End Female with Cable Screw



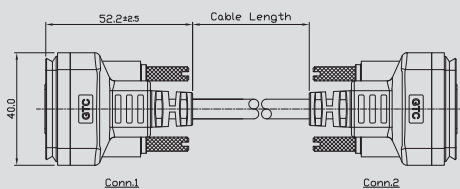
P/N	Rated current (A)	Contacts
GT141320-02091-XX	5	9
GT146320-02151-XX	5	15

D-SUB Cable End Male with Cable Screw



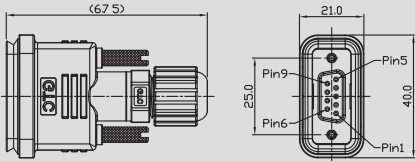
P/N	Rated current (A)	Contacts
GT141330-02091-XX	5	9
GT146330-02151-XX	5	15

D-SUB Cable End Dual head with Cable Screw



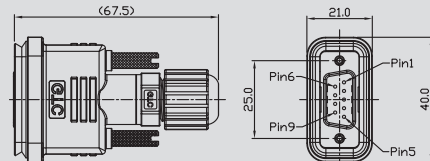
P/N	Rated current (A)	Contacts	Gender
GT1413A0-02091-XX	5	9	M/M
GT1413B0-02091-XX	5	9	F/F
GT1413D0-02091-XX	5	9	F/M

D-SUB Field Installable Cable End Female Solder



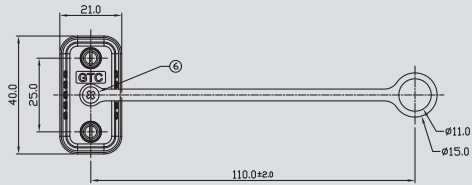
P/N	Rated current (A)	Contacts
GT141340-02090	5	9
GT146340-02150	5	15

D-SUB Field Installable Cable End Male Solder



P/N	Rated current (A)	Contacts
GT141350-02090	5	9
GT146350-02150	5	15

Cap Plastic for D-SUB Stainless Screw Panel



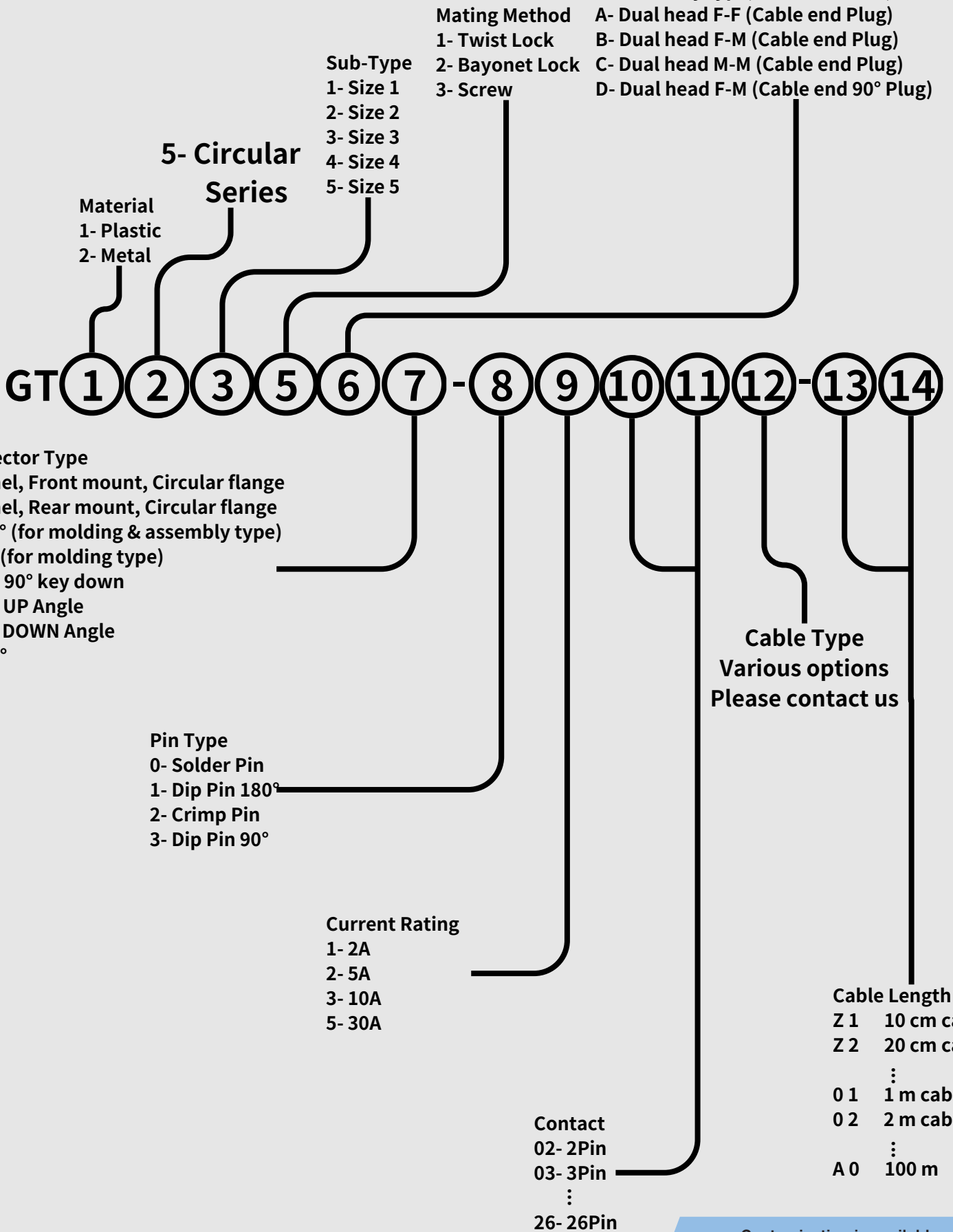
P/N	Mating Series No.
GT1C4140X2	GT141210-02090
	GT141410-02090
	GT141310-02090
	GT146310-02150
	GT146100-02150
	GT146200-02150
	GT141300-02090
	GT146300-02150

CIRCULAR SERIES



Circular

Part Numbering System

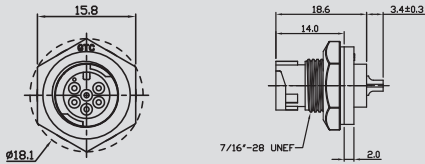


Specifications

Circular Connector Size 1/2/3/4 Engineering Specifications				
Specifications				
Size 1				
Current Rating	2.0A	5.0A		
AWG Gauge	22 AWG ~26 AWG	20 AWG ~24 AWG		
Size 2 & Size 3				
Current Rating	2.0A	5.0A	10.0A	
AWG Gauge	22 AWG ~26 AWG	20 AWG ~24 AWG	16 AWG ~20 AWG	
Size 4				
Current Rating	2.0A	5.0A	10.0A	30A
AWG Gauge	22 AWG ~26 AWG	20 AWG ~24 AWG	16 AWG ~20 AWG	12AWG
Operation Temperature	Plastic	With Cable -40°C / +85°C		
		Without Cable -40°C / +105°C		
	Metal	With Cable -40°C / +85°C		
		Without Cable -40°C / +105°C		
IP Rating	Plastic	IP67		
	Metal	IP68		
Product Technical Data				
Characteristics	Standard	Description		
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the C1/C2/C3/C4 Specification.		
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC500V±10% , test for 1 minute and the insulation resistance should be more than 100MΩ		
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	Size 1	5A(2~3 Pin): 1500 V AC contact-to-contact, for 1min. 2A(4~6Pin): 500 V AC contact-to-contact, for 1min.	
		Size 2/3/4	1500 V AC contact-to-contact, for 1min.	
Contact Resistance	EIA 364-06 or IEC 60512-2b Method B	10mΩ at 10mA Max.		

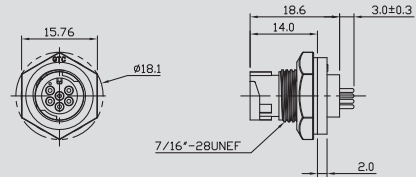
Product Technical Data		
Characteristics	Standard	Description
Pin Pull Test	EIA 364-08 or IEC 60512-16d	1.Initial: 24 N minimum. 2.After Test: 16 N minimum.
Durability	EIA 364-09 or IEC 60512-9a	Size 1 Lock type 200 cycles. rate of 200 cycles per hour.
		Size 2/3/4 Screw type 500 cycles ,rate of 200 cycles per hour. Lock type 200 cycles ,rate of 200 cycles per hour.
Cable Pull-Out	EIA 364-38 Test Condition A or IEC 60512-13a	After the application of a steady state axial load of 40 N for one minute.
Cable Flexing	EIA 364-41	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle, the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles, test withstanding voltage and insulation resistance.
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μs or longer duration when mated C1/C2/C3/C4 connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.
Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C, after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (Nacl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h, Temperature of the pressure barrel is 43°C, LAB temperature is 35°C, relative humidity of LAB is 95%~98%, test time is 24hr, after the test, check if there is rusty and oxidized phenomenon.
Waterproof Test	IEC 60529	Plastic Under 1 M water for 30 min
		Metal Under 1 M water for 30 hours
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours .
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31, Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (±3) °C Black Panel Temperature 4 h Condensation at 50 (±3) °C Black Panel Temperature

Plastic C1 Panel Mount Male Solder Lock



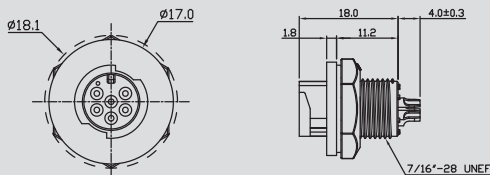
P/N	Rated current (A)	Contacts
GT151210-01040	2	4
GT151210-01050	2	5
GT151210-01060	2	6
GT151210-01080	5	8
GT151210-02020	5	2
GT151210-02030	5	3

Plastic C1 Panel Mount Male Dip Lock



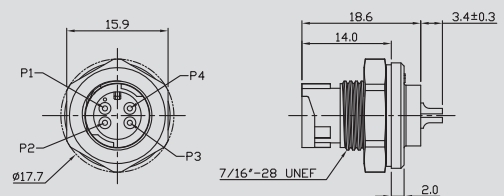
P/N	Rated current (A)	Contacts
GT151210-11040	2	4
GT151210-11050	2	5
GT151210-11060	2	6
GT151210-12020	5	2
GT151210-12030	5	3

Plastic C1 Panel Rear Mount Male Solder Lock



P/N	Rated current (A)	Contacts
GT151211-01040	2	4
GT151211-01050	2	5
GT151211-01060	2	6
GT151211-02020	5	2
GT151211-02030	5	3

Metal C1 Panel Mount Male Solder Lock

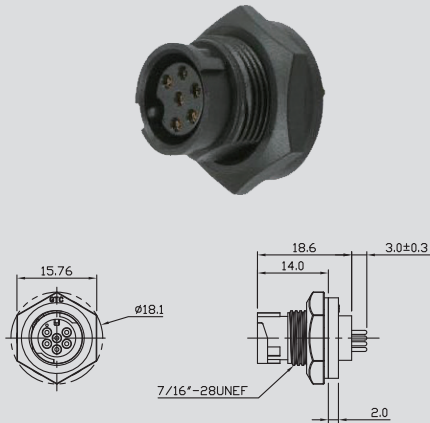


P/N	Rated current (A)	Contacts
GT251210-01040	2	4
GT251210-01050	2	5
GT251210-01060	2	6
GT251210-02020	5	2
GT251210-02030	5	3

C2 PANEL MOUNT

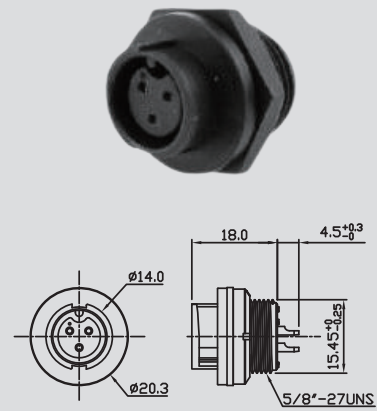
Circular

Plastic C2 Panel Mount Female Solder Lock



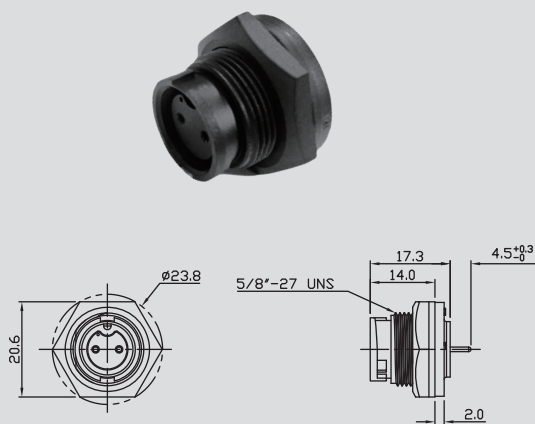
P/N	Rated current (A)	Contacts
GT152200-01100	2	10
GT152200-02020	5	2
GT152200-02030	5	3
GT152200-02040	5	4
GT152200-02050	5	5
GT152200-02060	5	6
GT152200-03040	10	4

Plastic C2 Panel Rear Mount Female Solder Lock



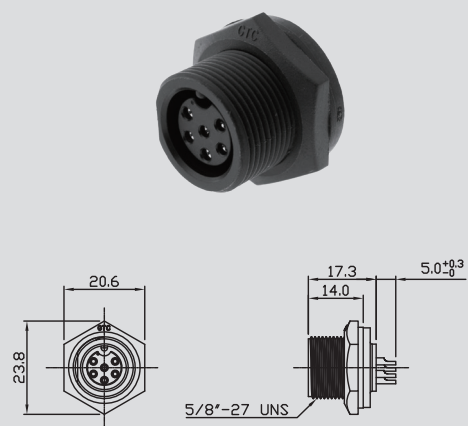
P/N	Rated current (A)	Contacts
GT152201-02030	5	3

Plastic C2 Panel Mount Female Dip Lock



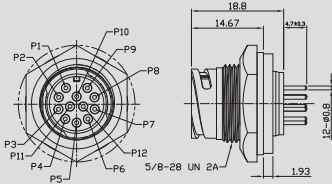
P/N	Rated current (A)	Contacts
GT152200-11100	2	10
GT152200-12020	5	2
GT152200-12040	5	4
GT152200-12050	5	5
GT152200-12060	5	6
GT152200-13040	10	4

Plastic C2 Panel Mount Female Solder Screw



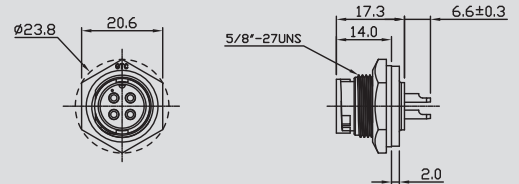
P/N	Rated current (A)	Contacts
GT152300-02030	5	3
GT152300-02060	5	6
GT152300-03030	10	3

Plastic C2 Panel Mount Male Dip Twist Lock



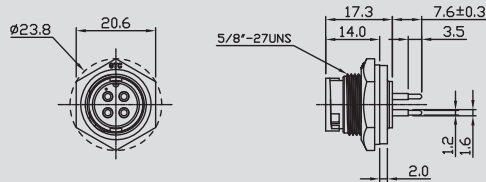
P/N	Rated current (A)	Contacts
GT152110-11120	2	12

Plastic C2 Panel Mount Male Solder Lock



P/N	Rated current (A)	Contacts
GT152210-01100	2	10
GT152210-01120	2	12
GT152210-01140	2	14
GT152210-02020	5	2
GT152210-02030	5	3
GT152210-02050	5	5
GT152210-02060	5	6
GT152210-02080	5	8
GT152210-03030	10	3
GT152210-03040	10	4

Plastic C2 Panel Mount Male Dip Lock



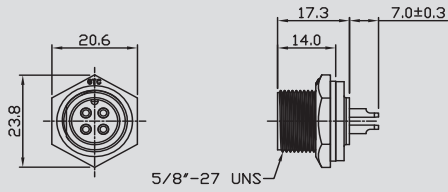
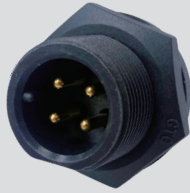
P/N	Rated current (A)	Contacts
GT152210-11100	2	10
GT152210-11120	2	12
GT152210-11140	2	14
GT152210-12020	5	2
GT152210-12030	5	3
GT152210-12050	5	5
GT152210-12060	5	6

P/N	Rated current (A)	Contacts
GT152210-12080	5	8
GT152210-13030	10	3
GT152210-13040	10	4

C2 PANEL MOUNT

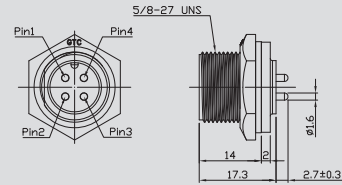
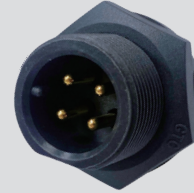
Circular

Plastic C2 Panel Mount Male Solder Screw



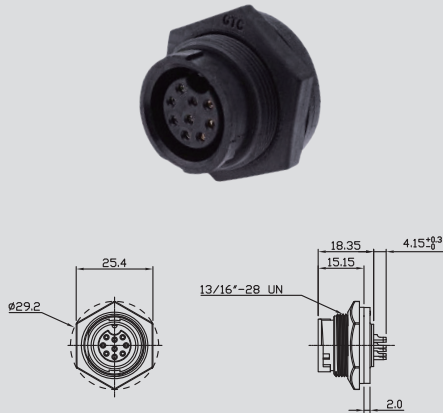
P/N	Rated current (A)	Contacts
GT152310-01100	2	10
GT152310-01120	2	12
GT152310-02020	5	2
GT152310-02030	5	3
GT152310-02050	5	5
GT152310-02080	5	8
GT152310-03040	10	4

Plastic C2 Panel Mount Male Dip Screw



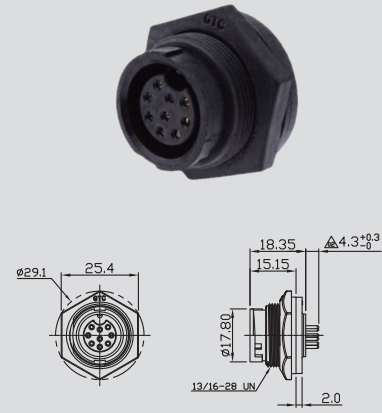
P/N	Rated current (A)	Contacts
GT152310-11100	2	10
GT152310-11120	2	12
GT152310-12080	5	8
GT152310-13040	10	4

Plastic C3 Panel Mount Female Solder Lock



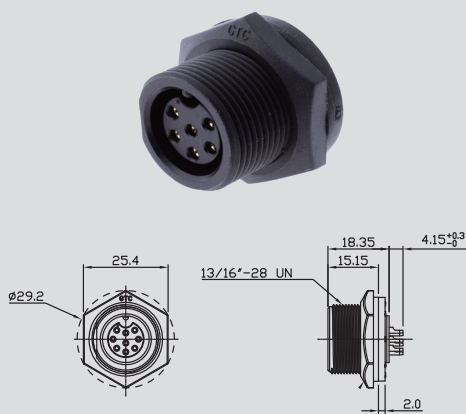
P/N	Rated current (A)	Contacts
GT153200-02090	5	9
GT153200-03040	10	4
GT153200-03050	10	5

Plastic C3 Panel Mount Female Dip Lock



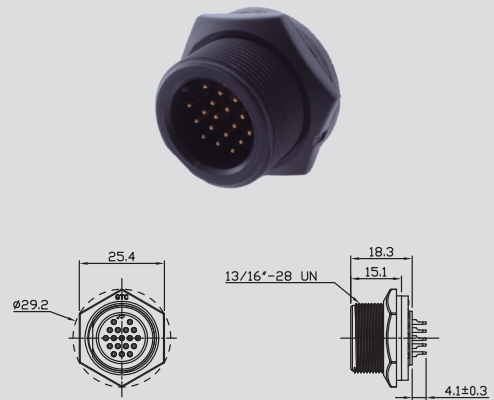
P/N	Rated current (A)	Contacts
GT153200-12090	5	9
GT153200-13040	10	4
GT153200-13050	10	5

Plastic C3 Panel Mount Female Solder Screw



P/N	Rated current (A)	Contacts
GT153300-02090	5	9
GT153300-03040	10	4
GT153300-03050	10	5

Plastic C3 Panel Mount Male Solder Screw

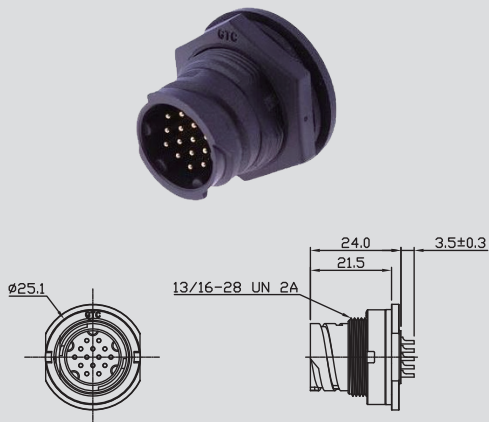


P/N	Rated current (A)	Contacts
GT153310-01180	2	18
GT153310-02140	5	14
GT153310-03060	10	6

C3 PANEL MOUNT

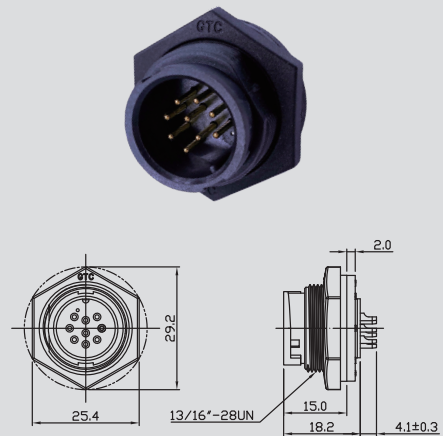
Circular

Plastic C3 Panel Male Solder Twist Lock



P/N	Rated current (A)	Contacts
GT153110-02140	5	14

Plastic C3 Panel Mount Male Solder Lock



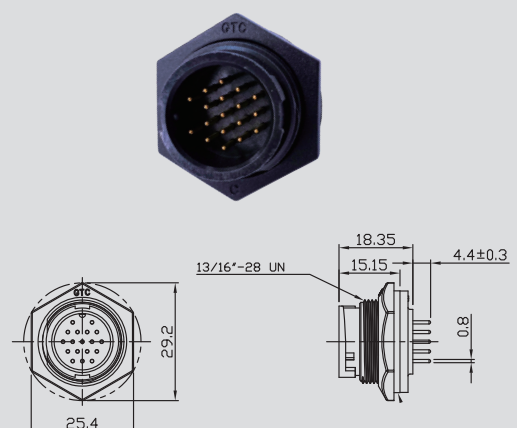
P/N	Rated current (A)	Contacts
GT153210-01180	2	18
GT153210-02090	5	9
GT153210-02140	5	14
GT153210-03040	10	4
GT153210-03050	10	5

Plastic C3 Panel Male Dip Twist Lock



P/N	Rated current (A)	Contacts
GT153110-12140	5	14

Plastic C3 Panel Mount Male Dip Lock



P/N	Rated current (A)	Contacts
GT153210-11180	2	18
GT153210-12090	5	9
GT153210-12140	5	14
GT153210-13040	10	4
GT153210-13050	10	5

Plastic C4 Panel Mount Female Solder Lock



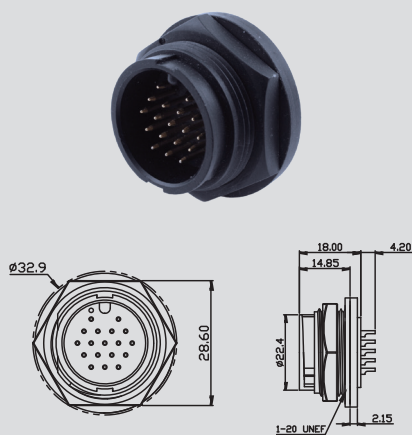
P/N	Rated current (A)	Contacts
GT154200-01260	2	26
GT154200-02180	5	18
GT154200-03090	10	9
GT154200-05030	30	3

Plastic C4 Panel Mount Female Dip Lock



P/N	Rated current (A)	Contacts
GT154200-11260	2	26
GT154200-12180	5	18
GT154200-13090	10	9

Plastic C4 Panel Mount Male Solder Lock



P/N	Rated current (A)	Contacts
GT154210-02180	5	18
GT154210-05030	30	3

Plastic C4 Panel Mount Male Dip Lock



P/N	Rated current (A)	Contacts
GT154210-12180	5	18

C4 PANEL MOUNT

Circular

Plastic C4 Panel Mount Male Solder Screw



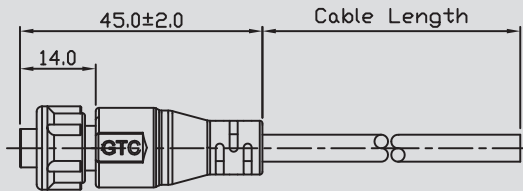
P/N	Rated current (A)	Contacts
GT154310-01200	2	20
GT154310-02180	5	18

Plastic C4 Panel Mount Male Dip Screw



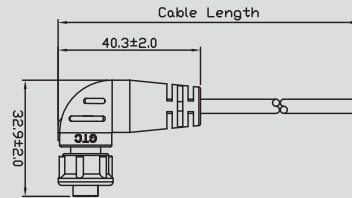
P/N	Rated current (A)	Contacts
GT154310-12180	5	18

Plastic C1 Cable End Female Lock with Cable



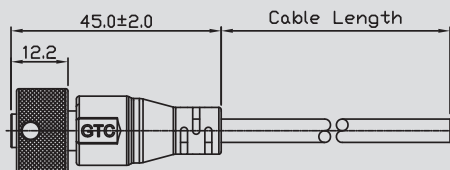
P/N	Rated current (A)	Contacts
GT151224-2104X-XX	2	4
GT151224-2105X-XX	2	5
GT151224-X106X-XX	2	6
GT151224-0108X-XX	2	8
GT151224-X202X-XX	5	2
GT151224-X203X-XX	5	3

Plastic C1 Cable End Female 90° Lock with Cable



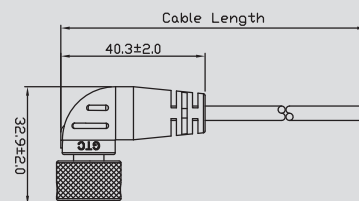
P/N	Rated current (A)	Contacts
GT151229-2104X-XX	2	4
GT151229-2106X-XX	2	6
GT151229-2202X-XX	5	2
GT151229-2203X-XX	5	3

Metal C1 Cable End Female Lock with Cable



P/N	Rated current (A)	Contacts
GT251224-2104X-XX	2	4
GT251224-2105X-XX	2	5
GT251224-2106X-XX	2	6
GT251224-22021-XX	5	2
GT251224-22031-XX	5	3

Metal C1 Lock Cable End Female 90° Lock with Cable

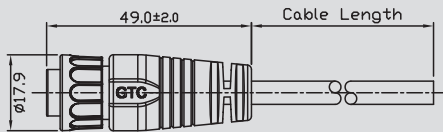


P/N	Rated current (A)	Contacts
GT251229-2104X-XX	2	4
GT251229-2105X-XX	2	5
GT251229-2106X-XX	2	6
GT251229-2202X-XX	5	2
GT251229-2203X-XX	5	3

C2 CABLE END

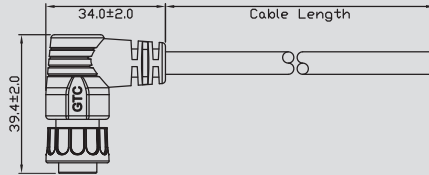
Circular

Plastic C2 Cable End Female Lock with Cable



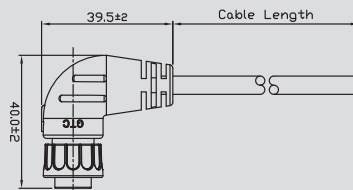
P/N	Rated current (A)	Contacts
GT152224-2110X-XX	2	10
GT152224-2114X-XX	2	14
GT152224-2202X-XX	5	2
GT152224-2203X-XX	5	3
GT152224-2204X-XX	5	4
GT152224-2205X-XX	5	5
GT152224-2206X-XX	5	6
GT152224-2208X-XX	5	8
GT152224-2304X-XX	10	4

Plastic C2 Cable End Female 90° Lock with Cable



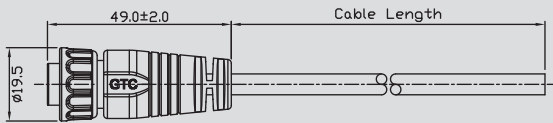
P/N	Rated current (A)	Contacts
GT152225-2110X-XX	2	10
GT152225-2114X-XX	2	14
GT152225-2202X-XX	5	2
GT152225-2203X-XX	5	3
GT152225-2204X-XX	5	4
GT152225-2205X-XX	5	5
GT152225-2206X-XX	5	6
GT152225-2208X-XX	5	8
GT152225-2304X-XX	10	4

Plastic C2 Cable End 90° Key Down Female Lock with Cable



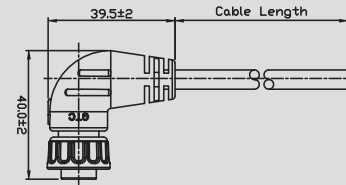
P/N	Rated current (A)	Contacts
GT152229-2112X-XX	2	12
GT152229-2208X-XX	5	8

Plastic C2 Cable End Female Screw with Cable



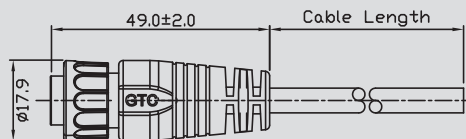
P/N	Rated current (A)	Contacts
GT152324-2110X-XX	2	10
GT152324-2112X-XX	2	12
GT152324-2202X-XX	5	2
GT152324-2203X-XX	5	3
GT152324-2204X-XX	5	4
GT152324-2205X-XX	5	5
GT152324-2208X-XX	5	8
GT152324-2303X-XX	10	3
GT152324-2304X-XX	10	4

Plastic C2 Cable End Female 90° Screw with Cable



P/N	Rated current (A)	Contacts
GT152325-2208X-XX	5	8

Plastic C2 Cable End Male Lock with Cable



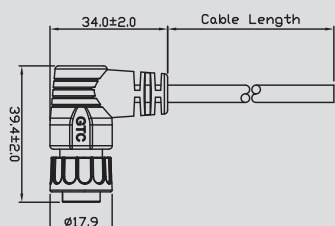
P/N	Rated current (A)	Contacts
GT152234-21101-XX	2	10
GT152234-X202X-XX	5	2
GT152234-2203X-XX	5	3
GT152234-X204X-XX	5	4

P/N	Rated current (A)	Contacts
GT152234-X205X-XX	5	5
GT152234-X206X-XX	5	6
GT152234-2209X-XX	5	9
GT152234-2304X-XX	10	4

C2 CABLE END

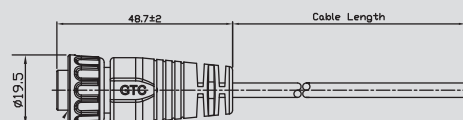
Circular

Plastic C2 Cable End Male 90° Lock with Cable



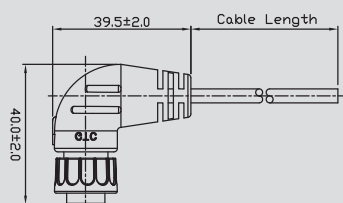
P/N	Rated current (A)	Contacts
GT152235-2202X-XX	5	2
GT152235-2205X-XX	5	5
GT152235-2209X-XX	5	9

Plastic C2 Cable End Male Screw with Cable



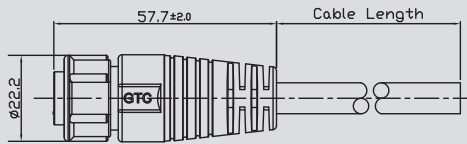
P/N	Rated current (A)	Contacts
GT152334-2203X-XX	5	3
GT152334-2204X-XX	5	4
GT152334-2205X-XX	5	5
GT152334-2303X-XX	10	3

Plastic C2 Cable End Male 90° Screw with Cable



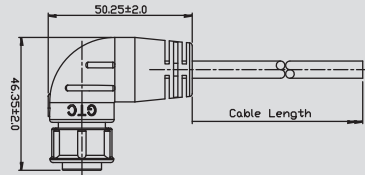
P/N	Rated current (A)	Contacts
GT152335-22061-XX	5	6

Plastic C3 Cable End Female Lock with Cable



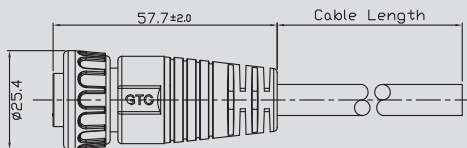
P/N	Rated current (A)	Contacts
GT153224-2118X-XX	2	18
GT153224-2209X-XX	5	9
GT153224-2214X-XX	5	14
GT153224-2304X-XX	10	4
GT153224-2305X-XX	10	5

Plastic C3 Cable End Female 90° Lock with Cable



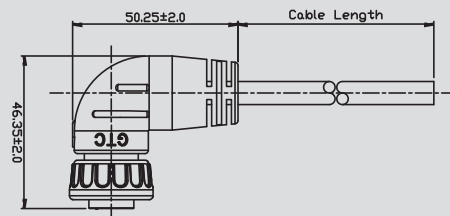
P/N	Rated current (A)	Contacts
GT153225-2209X-XX	5	9

Plastic C3 Cable End Female Screw with Cable



P/N	Rated current (A)	Contacts
GT153324-21181-XX	2	18
GT153324-2214X-XX	5	14
GT153324-2304X-XX	10	4
GT153324-2306X-XX	10	6

Plastic C3 Cable End Female 90° Screw with Cable

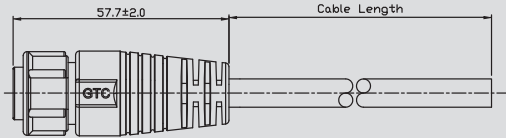


P/N	Rated current (A)	Contacts
GT153325-2214X-XX	5	14
GT153325-2218X-XX	5	18

C3 CABLE END

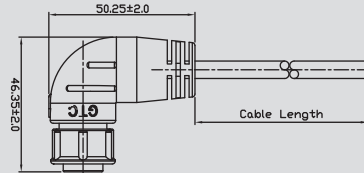
Circular

Plastic C3 Cable End Male Lock with Cable



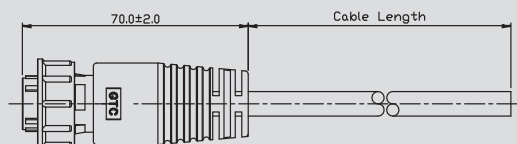
P/N	Rated current (A)	Contacts
GT153234-2209X-XX	5	9
GT153234-2304X-XX	10	4
GT153234-2305X-XX	10	5

Plastic C3 Cable End Male 90° Lock with Cable



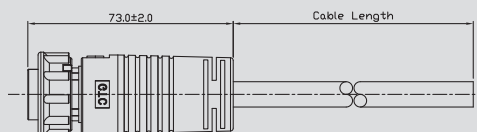
P/N	Rated current (A)	Contacts
GT153235-2209X-XX	5	9
GT153235-2304X-XX	10	4

Plastic C4 Cable End Female Lock with cable



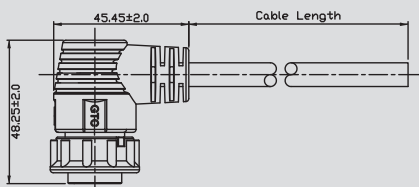
P/N	Rated current (A)	Contacts
GT154124-2305X-XX	10	5

Plastic C4 Cable End Male Lock with Cable



P/N	Rated current (A)	Contacts
GT154234-2126X-XX	2	26
GT154234-2218X-XX	5	18
GT154234-2306X-XX	10	6
GT154234-2309X-XX	10	9
GT154234-2503X-XX	30	3

Plastic C4 Cable End Male 90° Lock with Cable

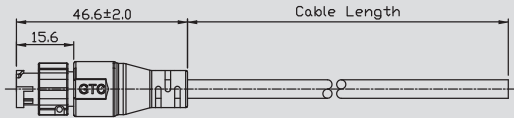


P/N	Rated current (A)	Contacts
GT154235-2126X-XX	2	26
GT154235-2218X-XX	5	18

CABLE TO CABLE

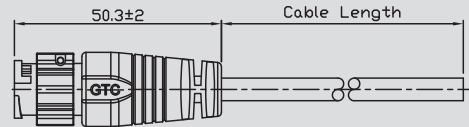
Circular

Plastic C1 Cable To Cable Male Lock with Cable



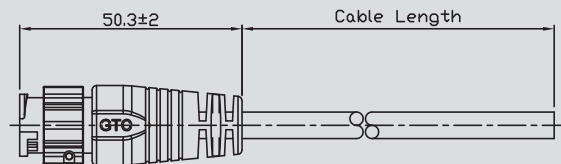
P/N	Rated current (A)	Contacts
GT151254-2104X-XX	2	4
GT151254-2105X-XX	2	5
GT151254-2106X-XX	2	6
GT151254-2202X-XX	5	2
GT151254-2203X-XX	5	3

Plastic C2 Cable To Cable Female Lock with Cable



P/N	Rated current (A)	Contacts
GT152244-X2061-XX	5	6

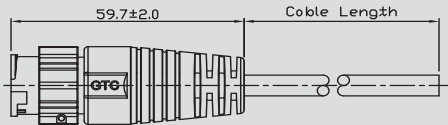
Plastic C2 Cable To Cable Male Lock with Cable



P/N	Rated current (A)	Contacts
GT152254-2110X-XX	2	10
GT152254-2112X-XX	2	12
GT152254-2114X-XX	2	14
GT152254-2204X-XX	5	4

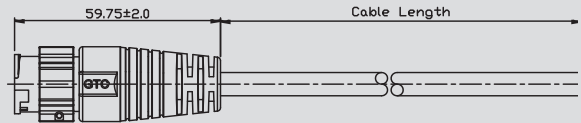
P/N	Rated current (A)	Contacts
GT152254-2205X-XX	5	5
GT152254-2208X-XX	5	8
GT152254-2303X-XX	10	3
GT152254-2304X-XX	10	4

Plastic C3 Cable To Cable Female Lock with Cable



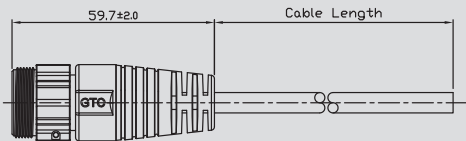
P/N	Rated current (A)	Contacts
GT153244-2304X-XX	10	4
GT153244-2305X-XX	10	5

Plastic C3 Cable To Cable Male Lock with Cable



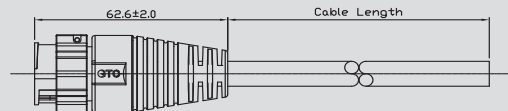
P/N	Rated current (A)	Contacts
GT153254-2214X-XX	5	14
GT153254-2304X-XX	10	4

Plastic C3 Cable To Cable Male Screw with Cable



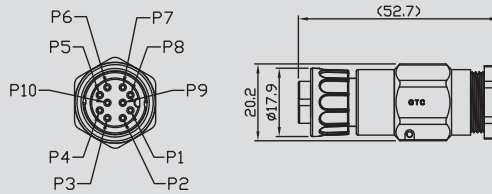
P/N	Rated current (A)	Contacts
GT153354-2302X-XX	10	2

Plastic C4 Cable To Cable Female Lock with Cable



P/N	Rated current (A)	Contacts
GT154244-2126X-XX	2	26
GT154244-0218X-XX	5	18
GT154244-2503X-XX	30	3

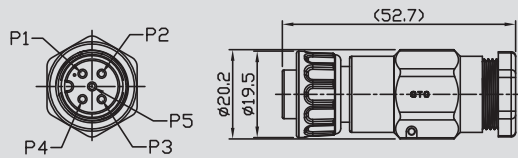
Plastic C2 Field Installable Cable End Female Lock



P/N	Rated current (A)	Contacts
GT152264-21100	2	10
GT152264-21120	2	12
GT152264-22030	5	3
GT152264-22040	5	4
GT152264-22050	5	5

P/N	Rated current (A)	Contacts
GT152264-22060	5	6
GT152264-22070	5	7
GT152264-22080	5	8
GT152264-23030	10	3
GT152264-23040	10	4

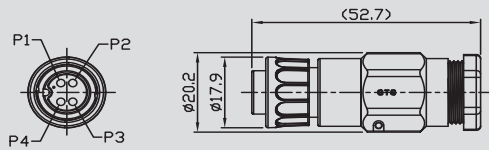
Plastic C2 Field Installable Cable End Female Screw



P/N	Rated current (A)	Contacts
GT152364-21100	2	10
GT152364-21120	2	12
GT152364-22050	5	5

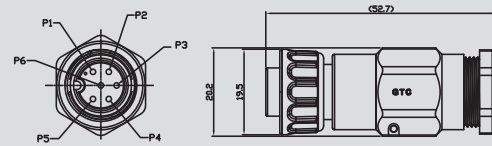
P/N	Rated current (A)	Contacts
GT152364-22080	5	8
GT152364-23040	10	4

Plastic C2 Field Installable Cable End Male Lock



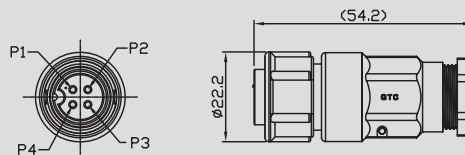
P/N	Rated current (A)	Contacts
GT152274-21100	2	10
GT152274-22060	5	6
GT152274-23040	10	4

Plastic C2 Field Installable Cable End Male Screw



P/N	Rated current (A)	Contacts
GT152374-22060	5	6

Plastic C3 Field Installable Cable End Female Lock



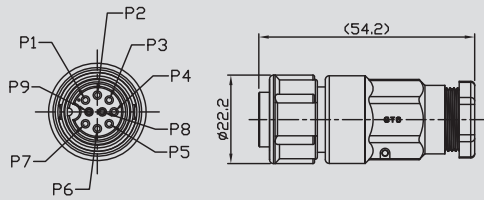
P/N	Rated current (A)	Contacts
GT153264-22070	5	7
GT153264-22090	5	9
GT153264-22140	5	14

P/N	Rated current (A)	Contacts
GT153264-23040	10	4
GT153264-23050	10	5
GT153264-23060	10	6

FIELD INSTALLABLE CABLE END

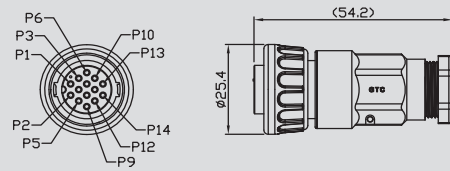
Circular

Plastic C3 Field Installable Cable End Male Lock



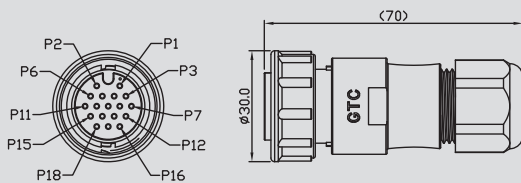
P/N	Rated current (A)	Contacts
GT153274-22090	5	9
GT153274-23030	10	3
GT153274-23040	10	4
GT153274-23050	10	5

Plastic C3 Field Installable Cable End Female Screw



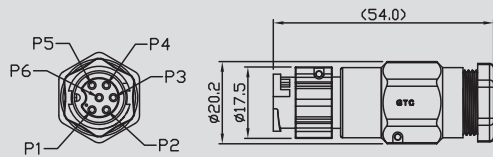
P/N	Rated current (A)	Contacts
GT153364-22140	5	14

Plastic C4 Field Installable Cable End Female Screw



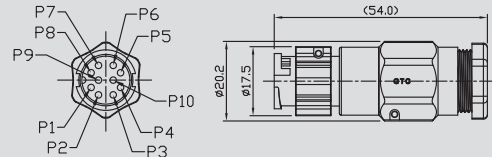
P/N	Rated current (A)	Contacts
GT154364-0218A	5	18

Plastic C2 Field Installable Cable To Cable Female Lock



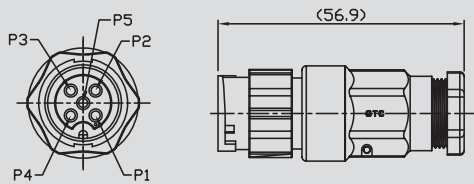
P/N	Rated current (A)	Contacts
GT152284-22060	5	6
GT152284-23040	10	4

Plastic C2 Field Installable Cable To Cable Male Lock



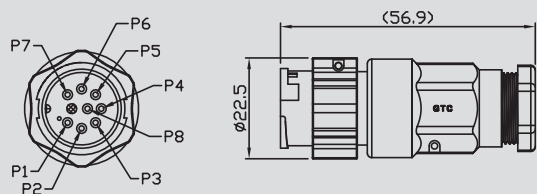
P/N	Rated current (A)	Contacts
GT152294-21100	2	10
GT152294-21120	2	12
GT152294-22050	5	5
GT152294-22080	5	8
GT152294-2303X	10	3
GT152294-23040	10	4

Plastic C3 Field Installable Cable To Cable Female Lock



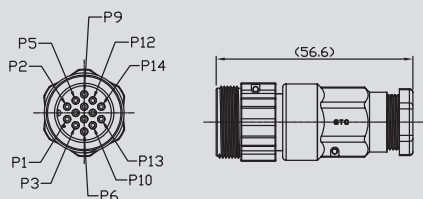
P/N	Rated current (A)	Contacts
GT153284-23050	10	5

Plastic C3 Field Installable Cable To Cable Male Lock



P/N	Rated current (A)	Contacts
GT153294-22140	5	14
GT153294-22090	5	9
GT153294-23040	10	4
GT153294-23050	10	5

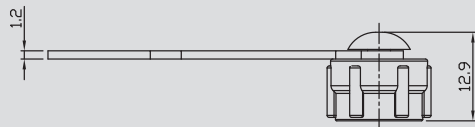
Plastic C3 Field Installable Cable To Cable Male Screw



P/N	Rated current (A)	Contacts
GT153394-22140	5	14

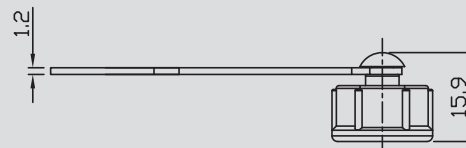
Circular CAP

Cap Plastic C1 Lock



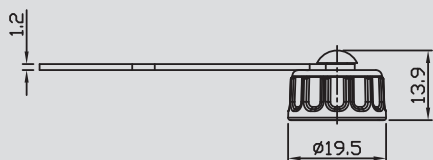
P/N	Mating Series No.
GT1C5121X2	GT151210 Series
	GT151211 Series

Cap Plastic C2 Lock



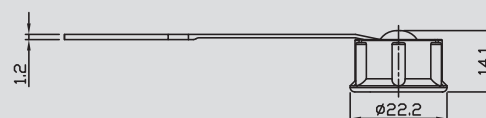
P/N	Mating Series No.
GT1C5221X2	GT152200 Series
	GT152201 Series
	GT152210 Series

Cap Plastic C2 Screw



P/N	Mating Series No.
GT1C5231X2	GT152300 Series
	GT152310 Series
	GT152311 Series

Cap Plastic C3 Lock

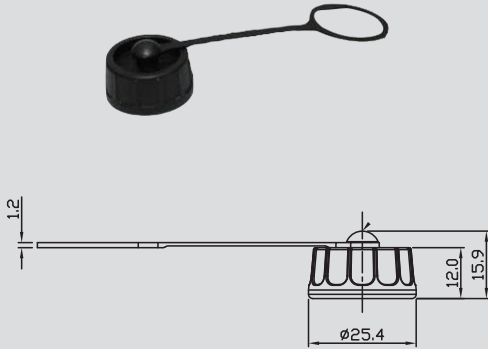


P/N	Mating Series No.
GT1C5321X2	GT153210 Series
	GT153200 Series

CAP & ACCESSORIES

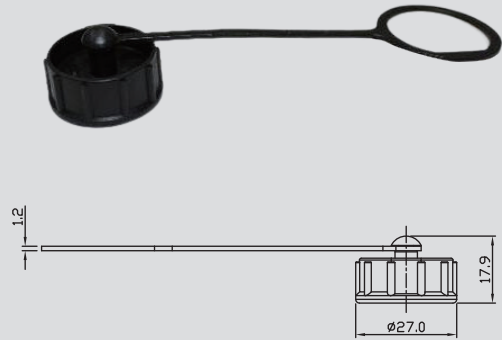
Circular

Cap Plastic C3 Screw



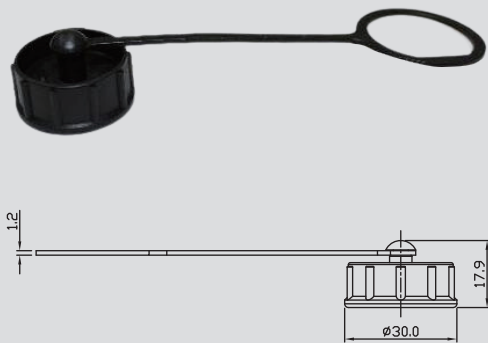
P/N	Mating Series No.
GT1C5331X2	GT153300 Series
	GT153310 Series

Cap Plastic C4 Lock



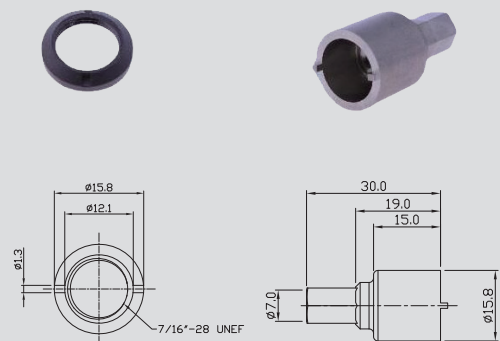
P/N	Mating Series No.
GT1C5421X2	GT154200 Series
	GT154210 Series

Cap Plastic C4 Screw



P/N	Mating Series No.
GT1C5431X2	GT154310 Series

Spanner Nut & Tool



P/N	Product
GT66151-00020	C1 Spanner Nut
GT66152-00030	C2 Spanner Nut
GT66153-00020	C3 Spanner Nut
GT66154-00020	C4 Spanner Nut
GT58151-X1001	C1 Spanner Nut Tool
GT58152-X1001	C2 Spanner Nut Tool
GT58153-X1002	C3 Spanner Nut Tool
GT58154-X1001	C4 Spanner Nut Tool

PUSH LOCK SERIES



Push Lock

Part Numbering System

Connector Type

0- Panel Mount (Rear)

1- Cable end (Field Installable)

A- Panel Square flange with M3 Screw (Front Mount)

Sub-Type

2- S2

3- S3

Material

1-Cooper Alloy

2-SUS 303

6- Push Lock
Series

Material
2- Metal

GT ① ② ③ ⑤ ⑥ ⑦ - ⑧ ⑨ ⑩ ⑪ ⑫ - ⑬ ⑭

Pin Type
0- Female
1- Male

Pin Style
0- Solder
1- Crimp

Current Rating

2- 2A

3- 4A

4- 10A

Contact

03- 3 Pin

04- 4 Pin

05- 5 Pin

08- 8 Pin

Cable Type

0-w/o cable

1- Standard Cable

Cable Length

Z 1 10 cm cable

Z 2 20 cm cable

⋮

0 1 1 m cable

0 2 2 m cable

⋮

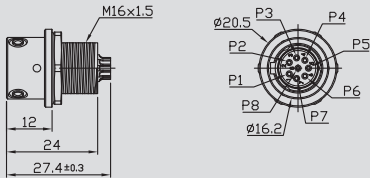
A 0 100 m

Specifications

Push Lock SUS 2~6 Pol Engineering Specifications			
Specifications			
Operation temperature	With Cable -40°C / +85°C		
	Without Cable -40°C / +105°C		
IP Rating	Panel: IP68, Cable End: IP68(Mated)		
Number of Ways	AWG Gauge	Voltage	Amps
2-4	18~24 AWG	250VAC/DC	4A
5		60VAC/DC	
6-8	22~28AWG	30VAC/DC	2A
Product Technical Data			
Characteristics	Standard	Description	
Visual and Dimensional Inspection	IEC-60152-1a	Must meet or exceed the requirements specified by the most current version of the M12 Specification (Unmated).	
Polarisation Method	IEC 60512-13e	Insertion force 35 N min.	
Contact Resistance	IEC 60512-2a	10mΩ at 10mA Max.	
Insulation Resistance	IEC 60512-3a	Test Voltage 500V±15 VDC Method A, Be more than 100MΩ	
Withstanding Voltage	IEC 60512-4a	2 to 5 Contacts	650 VAC between contacts , 650 VAC between contacts and metal-housing, for 1±5s min.
		6 to 8 Contacts	1400 VAC between contacts , 1400 VAC between contacts and metal-housing, for 1±5s min.
Gauge Retention Force	IEC60512-16e	Retention force 20g	

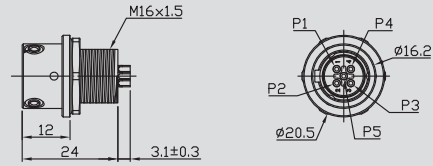
Product Technical Data			
Characteristics	Standard	Description	
Insertion And Withdrawal Force	IEC60512-13b	2 to 5 Contacts	Max. Speed: 10 mm/s maximum. Insertion force 23 N maximum Withdrawal force 30 N maximum
		6 to 8 Contacts	Max. Speed: 10 mm/s maximum. Insertion force 10 N maximum Withdrawal force 15 N maximum
Vibration	IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. No discontinuities of 1 μ s Frequency: 10 to 500 Hz , 0.35mm or 50 mm/s2 Sweep cycles: 10 Full duration: 6h	
Shock	IEC 60512-6c	The electrical load conditions shall be 100mA maximum for all contacts. No discontinuities of 1 μ s. Half sine Shock acceleration : 490 m/s2(50g) Duration of impact : 11ms.	
Rapid Change Of Temperature	IEC 60512-11d	-25°C to 85°C, t=30 min. 5 cycles	
Dry Heat	IEC 60512-11i	85°C, duration 16h	
Cold	IEC 60512-11j	-25°C, duration 2h , recovery time 2h	
Damp Heat, Cyclic Remaining Cycles	IEC 60512-11m	40°C, recovery time 2h , 5 cycles	
Electrical Load And Temperature	IEC 60512-9b	Duration : 1000h Amb. Temp. : 40°C Current Load : 4A Recovery time : 2h	
Salt Spray	EIA 364-26 or IEC 60512-11f	LAB temperature is 35°C Salt solution concentration shall be 5%. Compressing the air pressure is 0.083Mpa to 0.13 MPa (12 lb to 18 lb per square inch) Orifices of from 0.5 to 0.7 millimeter (0.02 to 0.03 inch) in diameter. Atomization of approximately 2.8 liters (3 quarts) of the salt solution per 0.28 cubic meter (10 cubic feet) of box volume per 24h Test Time:condition B 48h	
UV Exposure	ASTM G154-06	24Hr equal 1 year:Total require 3 years 8 h UV at 70 (\pm 3) °C Black Panel Temperature 4 h Condensation at 50 (\pm 3) °C Black Panel Temperature	
Waterproof Test	IEC 60529	Under 1 M water for 24h	

S2 Panel Rear Mount Female Solder



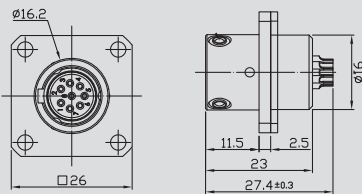
P/N	Rated current (A)	Contacts
GT261200-02080	2	8
GT261200-03050	4	5
GT261200-04040	10	4

S2 Panel Rear Mount Male Solder



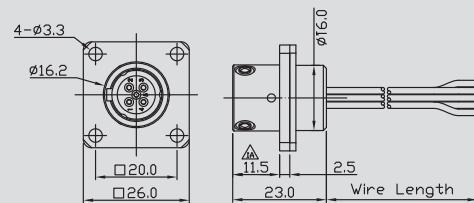
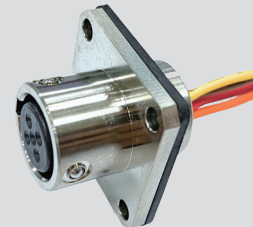
P/N	Rated current (A)	Contacts
GT261201-02080	2	8
GT261201-03050	4	5
GT261201-04040	10	4

S2 Panel Square Female Solder



P/N	Rated current (A)	Contacts
GT2612A0-02080	2	8
GT2612A0-03050	4	5

S2 Panel Square Female Solder with Wire

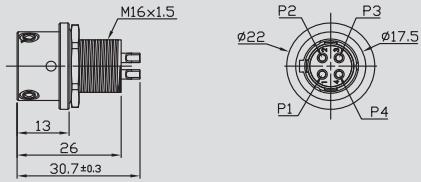


P/N	Rated current (A)	Contacts
GT2612A0-13051-XX	4	5

METAL PANEL MOUNT

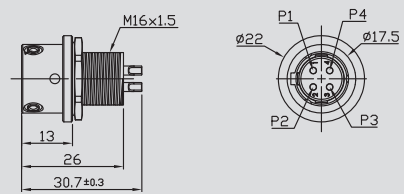
PUSH LOCK

S3 Panel Rear Mount Female Solder



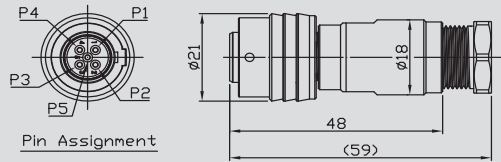
P/N	Rated current (A)	Contacts
GT261300-04030	10	3
GT261300-04040	10	4

S3 Panel Rear Mount Male Solder



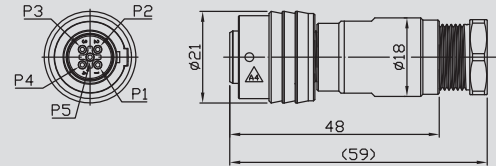
P/N	Rated current (A)	Contacts
GT261301-04040	10	4

S2 Field Installable Cable End Female Crimp



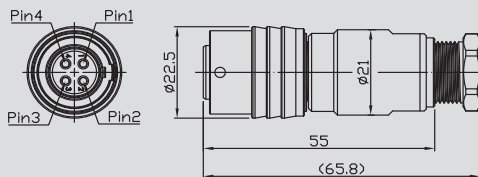
P/N	Rated current (A)	Contacts
GT261210-1208X	2	8
GT261210-1305X	4	5
GT261210-14043	10	4

S2 Field Installable Cable End Male Crimp



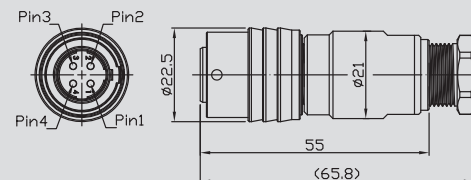
P/N	Rated current (A)	Contacts
GT261211-1208X	2	8
GT261211-1305X	4	5
GT261211-14043	10	4

S3 Field Installable Cable End Female Crimp



P/N	Rated current (A)	Contacts
GT261310-1404X	10	4

S3 Field Installable Cable End Male Crimp



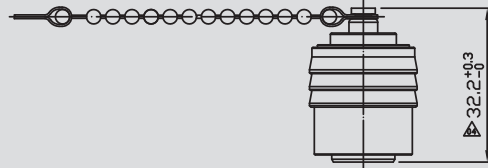
P/N	Rated current (A)	Contacts
GT261311-1403X	10	3
GT261311-1404X	10	4

S2 Cap For Panel End



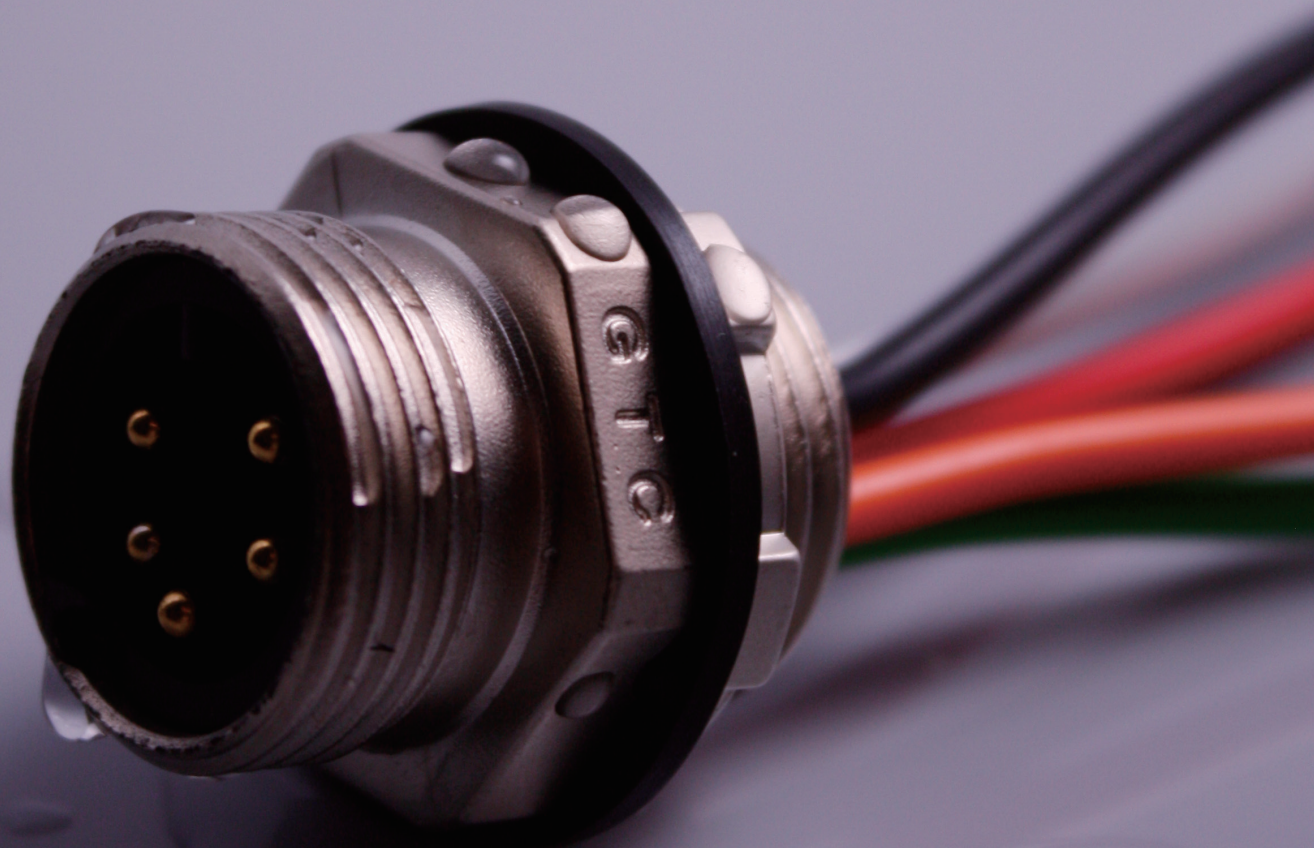
P/N	Mating Series No.
GT2C6120X2	GT2612A0 Series
	GT261200 Series
	GT261201 Series

S3 Cap For Panel End



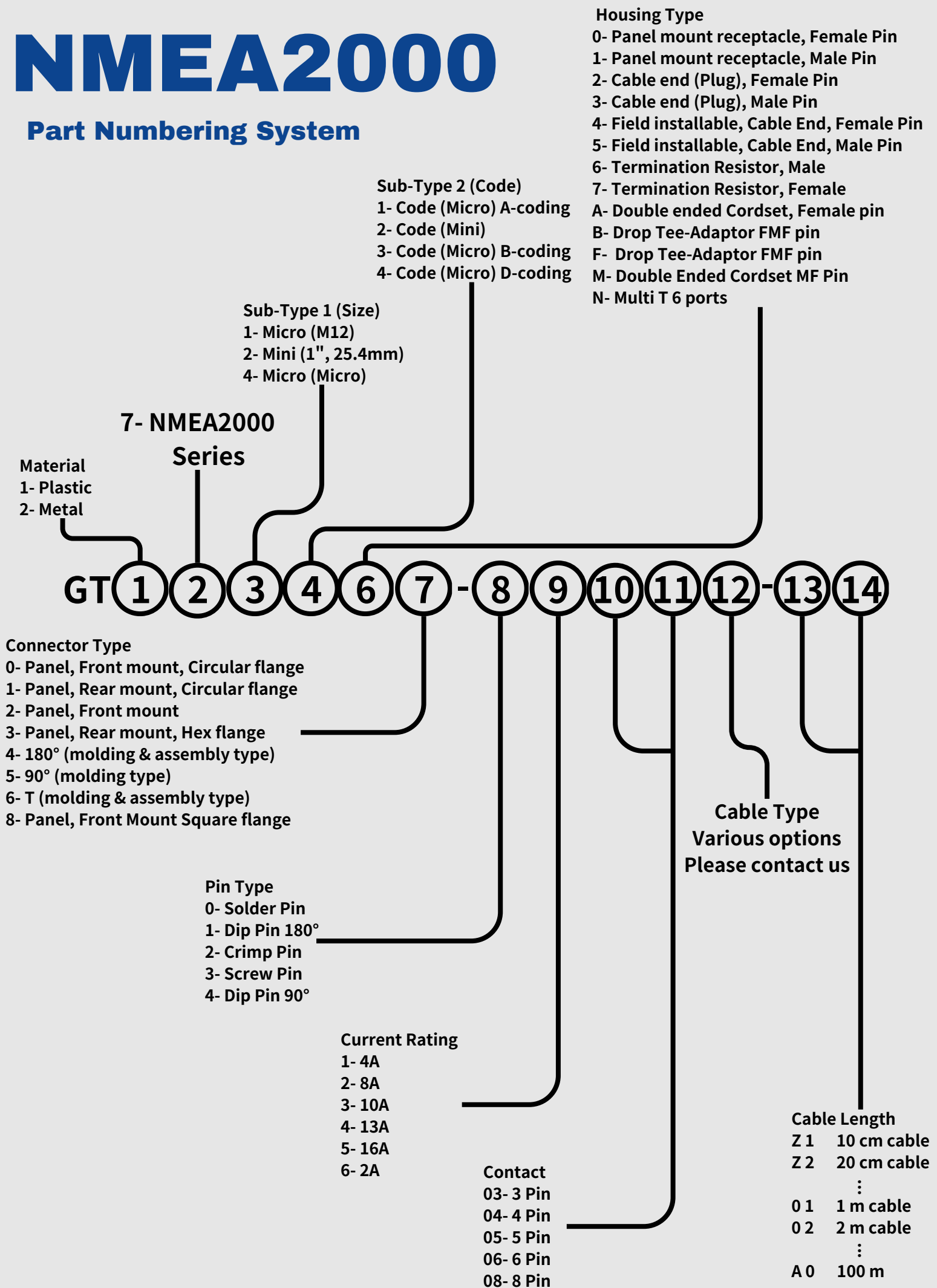
P/N	Mating Series No.
GT2C6130X2	GT261300 Series
	GT261301 Series

NMEA SERIES



NMEA2000

Part Numbering System



Specifications

Mini 2~5 Pin Connector Engineering Specifications				
Specifications				
Operation temperature	With Cable -40°C / +85°C			
	Without Cable -40°C / +105°C			
IP Rating	IP68			
Number Of Poles	Wiring Color Code	AWG Gauge	Voltage	Amps
3	1- GREEN 2- BLACK 3- WHITE	14 AWG & 16 AWG	600VAC/DC	13A
4	1- BLACK 2- WHITE 3- RED 4- GREEN	16 AWG	600VAC/DC	10A
5	1- WHITE 2- RED 3- GREEN 4- ORANGE 5- BLACK	16 AWG	600VAC/DC	8A
Product Technical Data				
Characteristics	Standard	Description		
Insulation Resistance	EIA 364-21	DC1000V±10%, test for 1 minute and the insulation resistance should be more than100MΩ		
Contact Resistance	EIA 364-06	50mΩ Max.		
Cable Pull-Out	EIA 364-38	Test Force:111N . Test Speed:89 N per minute ±4 N per minute and maintain specified load for 1 hour.		

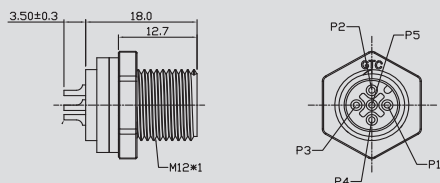
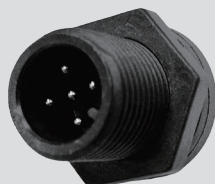
Product Technical Data		
Characteristics	Standard	Description
Cable Flexing	EIA 364-4B	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle, the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles, test withstanding voltage and insulation resistance
Vibration	EIA 364-28	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Salt Spray	EIA 364-26	LAB temperature is 35°C Salt solution concentration shall be 5%. Compressing the air pressure is 0.083Mpa to 0.13 MPa (12 lb to 18 lb per square inch) Orifices of from 0.5 to 0.7 millimeter (0.02 to 0.03 inch) in diameter. Atomization of approximately 2.8 liters (3 quarts) of the salt solution per 0.28 cubic meter (10 cubic feet) of box volume per 24 hours. Test Time:condition B 48 hours
Temperature Life	EIA 364-17	Test condition 4 105°C. Test time condition A 96Hours
Humidity Test	EIA 364-31	Test Temperature: +25 °C to +65 °C. Relative Humidity: 90 to 95%. Test time condition A 96Hours
Thermal Shock	EIA 364-32	5 cycles at -40°C / +105°C, after the test, the function and appearance can't be impacted.
UV Exposure	ASTM G154-06	24Hr equal 1 year:Total require 3 years 8 h UV at 70 (± 3) °C Black Panel Temperature 4 h Condensation at 50 (± 3) °C Black Panel Temperature
Waterproof Test	IEC 60529	Under 1 M water for 24 Hr.

Specifications

NMEA2000 4A 5P Plastic Spec Engineering Specifications		
Specifications		
Current Rating	4.0A	
AWG Gauge	18/22 AWG	
Operation temperature	With Cable -40°C / +85°C	
	Without Cable -40°C / +105°C	
IP Rating	Panel:IP68 , Cable End:IP68(Mated)	
Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	IEC-60152-1a	Must meet or exceed the requirements specified by the most current version of the M12 Specification (Unmated).
Polarisation Method	IEC 60512-13e	Insertion force 35 N min.
Contact Resistance	IEC 60512-2a	10mΩ at 10mA Max.
Insulation Resistance	IEC 60512-3a	Test Voltage 500V±15 VDC Method A, Be more than 100MΩ
Withstanding Voltage	IEC 60512-4a	1000 VAC between contacts , 1000 VAC between contacts and metal-housing, for 1±5s min.
Insertion And Withdrawal Force	IEC60512-13b	Max. Speed: 10 mm/s maximum. Insertion force 10 N maximum Withdrawal force 15 N maximum
Gauge Retention Force	IEC60512-16e	Retention force 20g
Vibration	IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. No discontinuities of 1 μs Frequency: 10 to 500 Hz , 0.35mm or 50 mm/s2 Sweep cycles: 10 Full duration: 6h

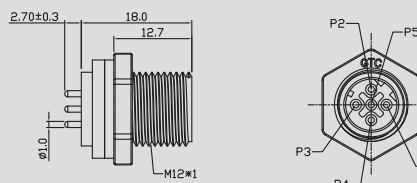
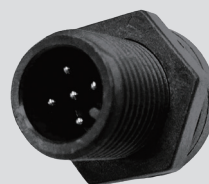
Product Technical Data		
Characteristics	Standard	Description
Shock	IEC 60512-6c	The electrical load conditions shall be 100mA maximum for all contacts. No discontinuities of 1 μ s. Half sine Shock acceleration : 490 m/s ² (50g) Duration of impact : 11ms
Mechanical Operation	IEC 60512-9a	Cycles : 100 Max. speed of operations : 10mm/s Rest : 30 s , unmated
Rapid Change Of Temperature	IEC 60512-11d	-25°C to 85°C, t=30 min. 5 cycles
Dry Heat	IEC 60512-11i	85°C, duration 16h
Damp Heat Cyclic , First Cycle	IEC 60512-11m	40°C, recovery time 2h
Cold	IEC 60512-11j	-25°C, duration 2h , recovery time 2h
Damp Heat, Cyclic Remaining Cycles	IEC 60512-11m	40°C, recovery time 2h , 5 cycles
Electrical Load And Temperature	IEC 60512-9b	Duration : 1000h Amb. Temp. : 40°C Current Load : 4A Recovery time : 2h
Salt Spray	EIA 364-26 or IEC 60512-11f	LAB temperature is 35°C Salt solution concentration shall be 5%. Compressing the air pressure is 0.083Mpa to 0.13 MPa (12 lb to 18 lb per square inch) Orifices of from 0.5 to 0.7 millimeter (0.02 to 0.03 inch) in diameter. Atomization of approximately 2.8 liters (3 quarts) of the salt solution per 0.28 cubic meter (10 cubic feet) of box volume per 24h Test Time:condition B 48h
UV Exposure	ASTM G154-06	24Hr equal 1 year:Total require 3 years 8 h UV at 70 (\pm 3) °C Black Panel Temperature 4 h Condensation at 50 (\pm 3) °C Black Panel Temperature
Waterproof Test	IEC 60529	Under 1 M water for 24h

Micro M12 Plastic A-Coding Panel Male Solder



P/N	Rated current (A)	Contacts
GT171110-01050	4	5

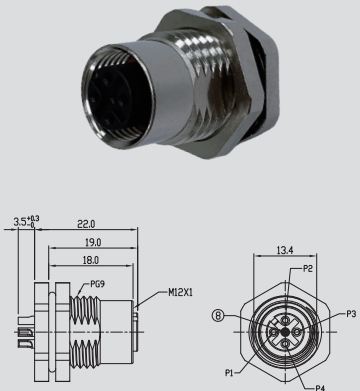
Micro M12 Plastic D-Coding Panel Male Dip



P/N	Rated current (A)	Contacts
GT171410-11050	4	5

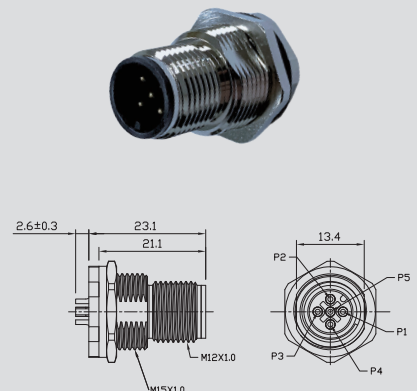
METAL PANEL MOUNT NMEA

Micro M12 Metal A-Coding Panel Mount Female Solder



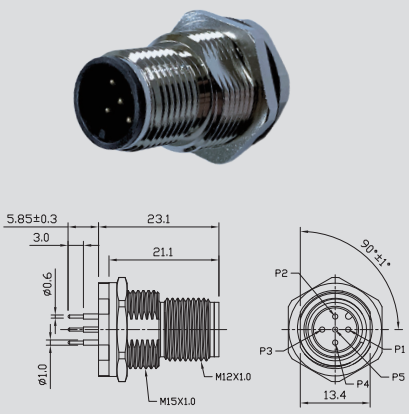
P/N	Rated current (A)	Contacts
GT271102-01050	4	5

Micro M12 Metal A-Coding Panel Male Solder



P/N	Rated current (A)	Contacts
GT271112-01050	4	5

Micro M12 Metal A-Coding Panel Male Dip



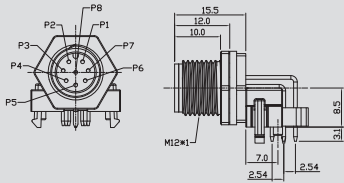
P/N	Rated current (A)	Contacts
GT271112-11050	4	5

Micro M12 Metal A-Coding Panel Circular Flange Male Dip



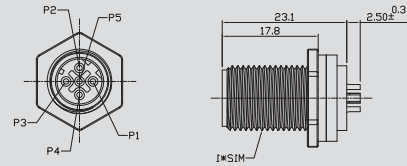
P/N	Rated current (A)	Contacts
GT271110-11050	4	5

Micro M12 Metal A-Coding Panel Male Shielding Dip 90°



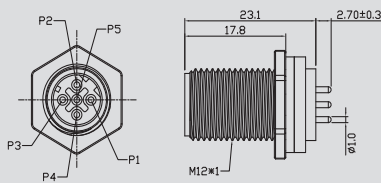
P/N	Rated current (A)	Contacts
GT271112-46080	2	8
GT271112-41050	4	5

Micro M12 Metal D-Coding Panel Male Solder



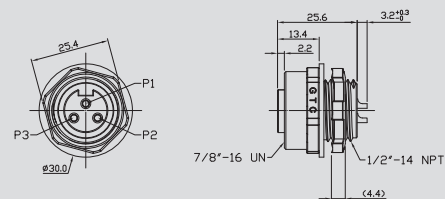
P/N	Rated current (A)	Contacts
GT271410-01050	4	5

Micro M12 Metal D-Coding Panel Male Dip



P/N	Rated current (A)	Contacts
GT271410-11050	4	5

Mini Metal Panel Rear Mount Female Solder

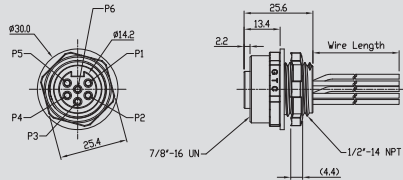


P/N	Rated current (A)	Contacts
GT272203-02050	8	5
GT272203-02060	8	6
GT272203-03040	10	4
GT272203-04030	13	3

METAL PANEL MOUNT

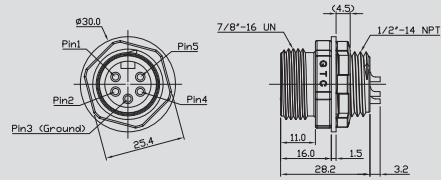
NMEA

Mini Metal Panel Rear Mount Female With Wire



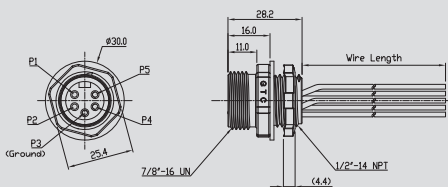
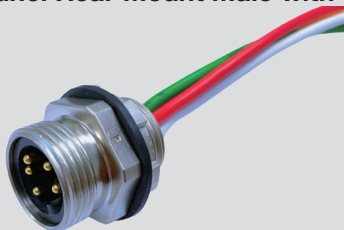
P/N	Rated current (A)	Contacts
GT272203-22058-XX	8	5
GT272203-22068-XX	8	6
GT272203-23048-XX	10	4
GT272203-24038-XX	13	3

Mini Metal Panel Rear Mount Male Solder



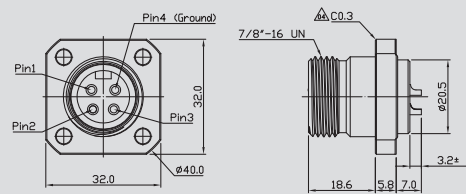
P/N	Rated current (A)	Contacts
GT272213-02050	8	5
GT272213-02060	8	6
GT272213-03040	10	4
GT272213-04030	13	3

Mini Metal Panel Rear Mount Male with Wire



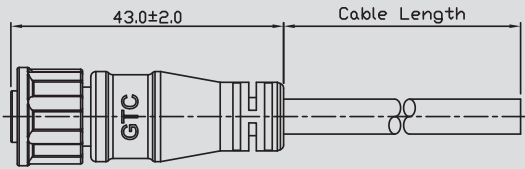
P/N	Rated current (A)	Contacts
GT272213-22058-XX	8	5
GT272213-22068-XX	8	6
GT272203-23048-XX	13	4
GT272203-24038-XX	13	3

Mini Metal Panel Front Mount Square Flange Male Solder



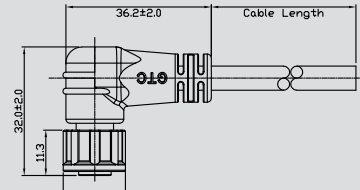
P/N	Rated current (A)	Contacts
GT272218-02050	8	5
GT272218-03040	10	4
GT272218-04030	13	3

Micro M12 Plastic A-Coding Cable End Female With Cable



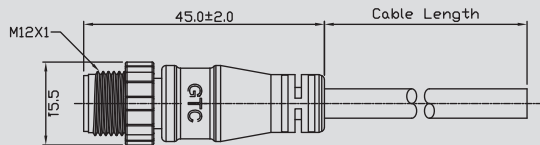
P/N	Rated current (A)	Contacts
GT171124-21055-XX	4	5

Micro M12 Plastic A-Coding Cable End 90° Female with Cable



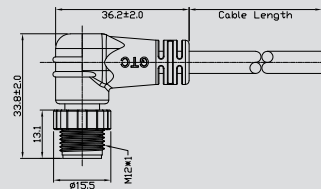
P/N	Rated current (A)	Contacts
GT171125-21055	4	5

Micro M12 Plastic A-Coding Cable End Male with Cable



P/N	Rated current (A)	Contacts
GT171134-21055-XX	4	5

Micro M12 Plastic A-coding Cable End 90° Male with Cable



P/N	Rated current (A)	Contacts
GT171135-21055-XX	4	5

Micro M12 Plastic D-Coding Cable End Female with Cable



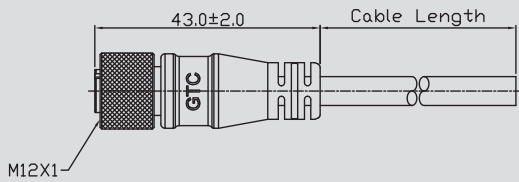
P/N	Rated current (A)	Contacts
GT171424-21055-XX	4	5

Micro M12 Plastic D-Coding Cable End Male with Cable



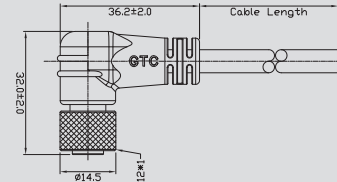
P/N	Rated current (A)	Contacts
GT171434-21055-XX	4	5

Micro M12 Metal A-Coding Cable End Female with Cable



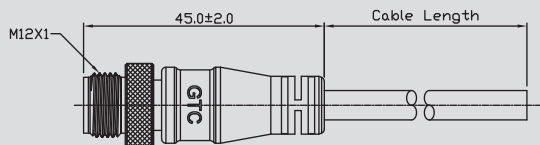
P/N	Rated current (A)	Contacts
GT271124-21055-XX	4	5

Micro M12 Metal A-Coding Cable End 90° Female with Cable



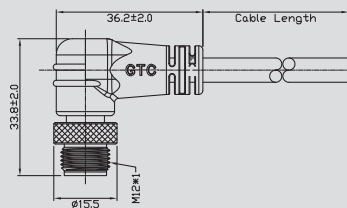
P/N	Rated current (A)	Contacts
GT271125-2105X-XX	4	5

Micro M12 Metal A-Coding Cable End Male with Cable



P/N	Rated current (A)	Contacts
GT271134-21055-XX	4	5

Micro M12 Metal A-Coding Cable End 90° Male with Cable

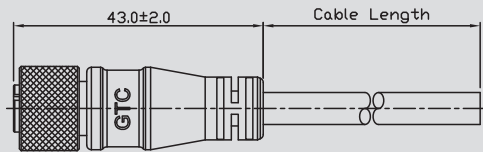


P/N	Rated current (A)	Contacts
GT271135-21055-XX	4	5

METAL CABLE END

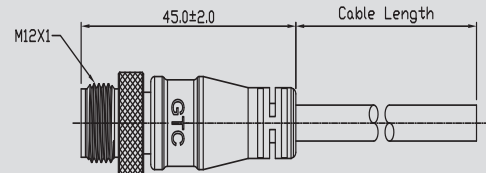
NMEA

Micro M12 Metal D-Coding Cable End Female with Cable



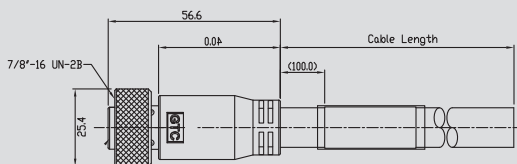
P/N	Rated current (A)	Contacts
GT271424-21055-XX	4	5

Micro M12 Metal D-Coding Cable End Male with Cable



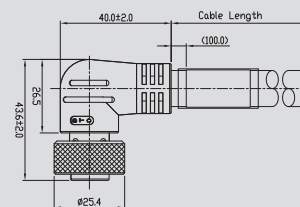
P/N	Rated current (A)	Contacts
GT271434-21055-XX	4	5

Mini Metal Cable End Female with Cable



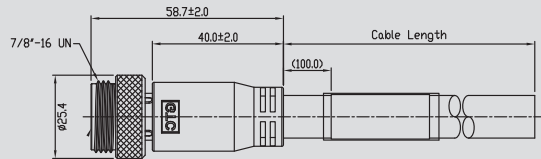
P/N	Rated current (A)	Contacts
GT272224-2205B-XX	8	5
GT272224-2206B-XX	8	6
GT272224-2304B-XX	10	4
GT272224-2403B-XX	13	3

Mini Metal Cable End 90° Female with Cable



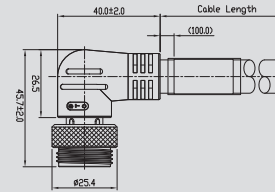
P/N	Rated current (A)	Contacts
GT272225-2205B-XX	8	5
GT272225-2206B-XX	8	6
GT272225-2304B-XX	10	4
GT272225-2403B-XX	13	3

Mini Metal Cable End Male with Cable



P/N	Rated current (A)	Contacts
GT272234-2205B-XX	8	5
GT272234-2206B-XX	8	6
GT272234-2304B-XX	10	4
GT272234-2403B-XX	13	3

Mini Metal Cable End 90° Male with Cable

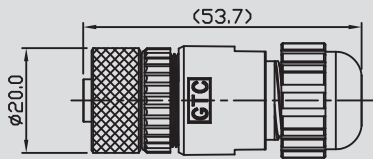
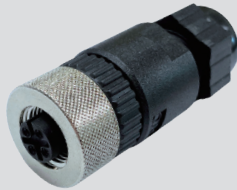


P/N	Rated current (A)	Contacts
GT272235-2205B-XX	8	5
GT272235-2206B-XX	8	6
GT272235-2304B-XX	10	4
GT272235-2403B-XX	13	3

METAL FILED INSTALLABLE

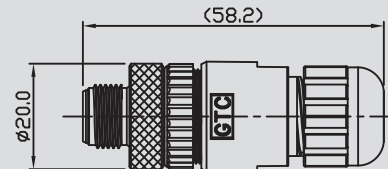
NMEA

Micro M12 Metal A-Coding Field Installable Cable End Female Screw-In



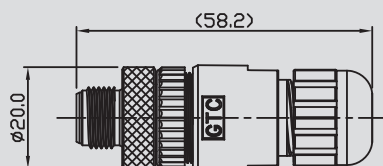
P/N	Rated current (A)	Contacts
GT271144-31030	4	3
GT271144-31040	4	4
GT271144-31050	4	5

Micro M12 Metal A-Coding Field Installable Cable End Male Screw-In



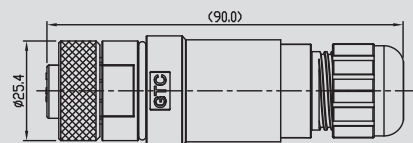
P/N	Rated current (A)	Contacts
GT271154-31030	4	3
GT271154-31040	4	4
GT271154-31050	4	5

Micro M12 Metal D-Coding 4A 4P Field Installable Cable End Male Screw-In



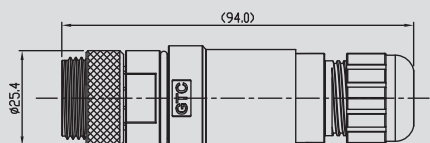
P/N	Rated current (A)	Contacts
GT271454-31040	4	4

Mini Metal Field Installable Cable End Female Screw-In



P/N	Rated current (A)	Contacts
GT272244-32050	8	5
GT272244-33040	10	4
GT272244-34030	13	3

Mini Metal Field Installable Cable End Male Screw-In

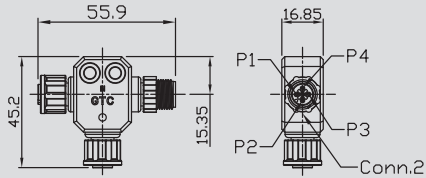


P/N	Rated current (A)	Contacts
GT272254-32050	8	5
GT272254-33040	10	4
GT272254-34030	13	3

MICRO TEE

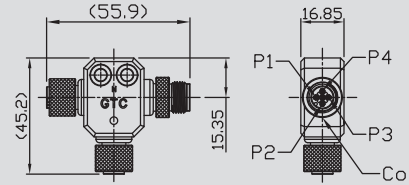
NMEA

NMEA2000 Micro Tee Plastic



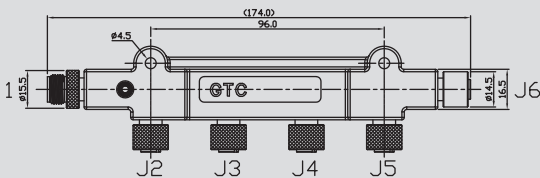
P/N	Rated current (A)	Contacts
GT1731F6-21050	4	5

NMEA2000 Micro Tee Metal



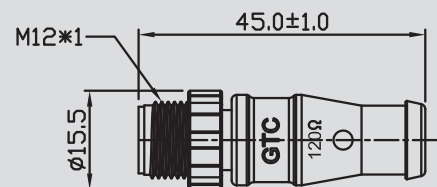
P/N	Rated current (A)	Contacts
GT2731F6-21050	4	5

Micro Tee 6 Port Metal



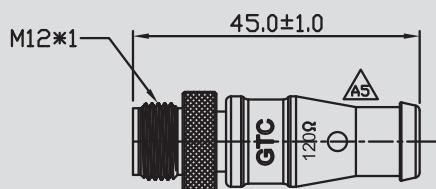
P/N	Rated current (A)	Contacts
GT2731N6-11050	4	5

Micro Plastic Terminal Resistors



P/N	Rated current (A)	Contacts	Gender
GT171164-21050	4	5	Male
GT171174-21050	4	5	Female

Micro Metal Termination Resistors



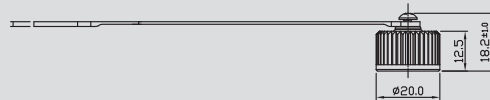
P/N	Rated current (A)	Contacts	Gender
GT271164-21050	4	5	Male
GT271174-21050	4	5	Female

Cap Plastic for Micro M12 Female Screw



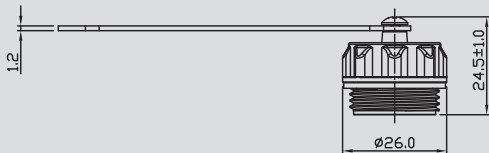
P/N	Mating Series No.
GT1C3430X2	GT271102 Series

Cap Plastic for Micro M12 Male Screw



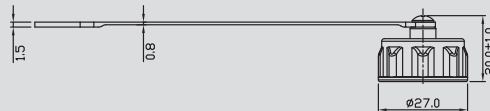
P/N	Mating Series No.
GT1C3431X2	GT171110 Series
	GT171410 Series
	GT271110 Series
	GT271112 Series
	GT271410 Series

Cap Plastic For Mini Female End



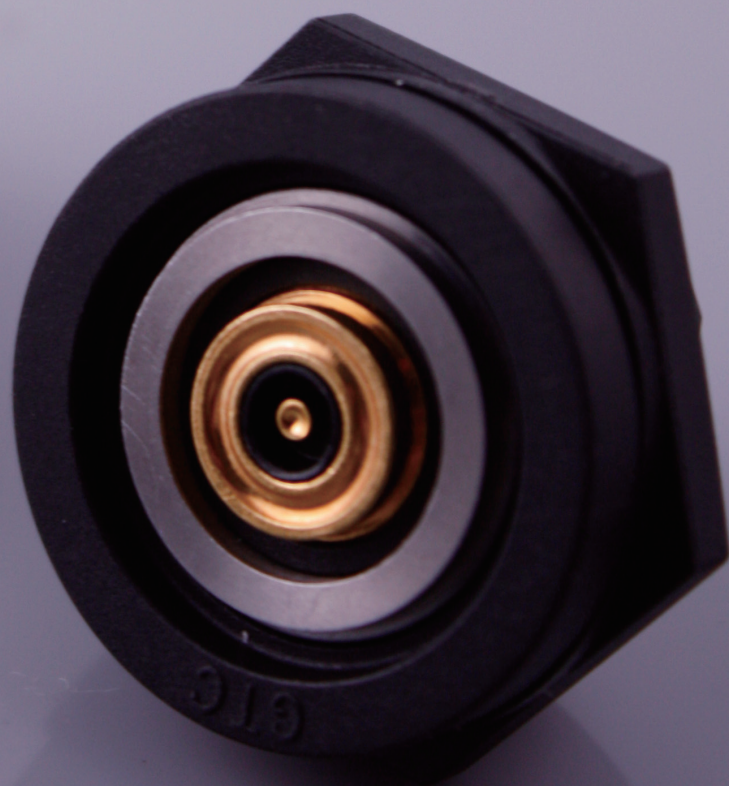
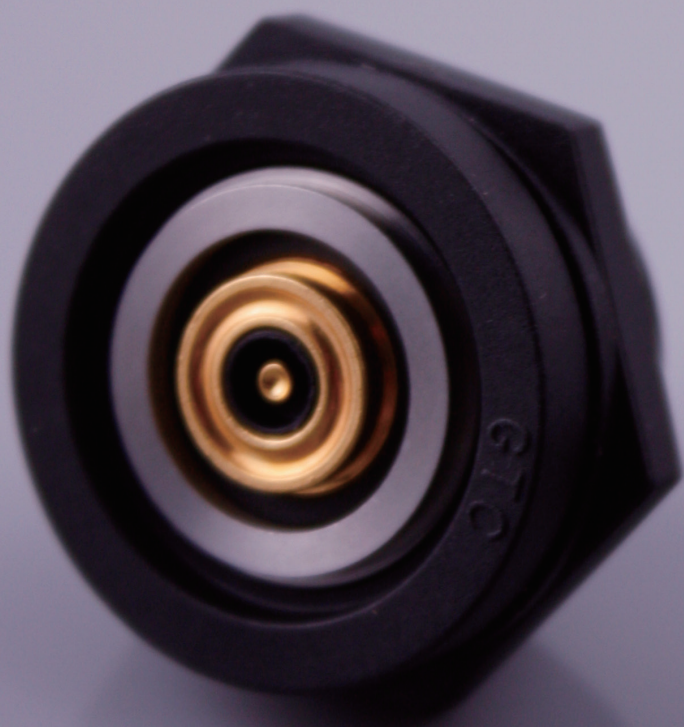
P/N	Mating Series No.
GT1C7330X2	GT272203 Series

Cap Plastic For Mini Male End



P/N	Mating Series No.
GT1C7331X2	GT272213 Series
	GT272218 Series

MAGNETIC SERIES



Magnetic

Part Numbering System

Mounting Type

0- Female

1- Male (Pogo Pin)

A- Dual head :Male (Pogo Pin)+ Male (Pogo Pin)

Connector Type

0- Panel mount receptacle

1- Cable end (Plug)

Sub-Type

3- Size 3, 2 Contacts rotating 360 degrees

9- Magnetic Series

Material
1- Plastic

GT ① ② ③ ④ ⑥ ⑦ - ⑧ ⑨ ⑩ ⑪ ⑫ - ⑬ ⑭

Connector Type
0- Straight (180°)
9- Angle (90°)

Pin Type
0- Solder Pin

Current Rating
2- 5A

Contact
02- 2 Contacts

Cable Type

0- W/O cable

1- Standard cable

2- USB-A Plug with Cable

3- UL2464 18AWG

Cable Length

Z 1 10 cm cable

Z 2 20 cm cable

⋮

0 1 1 m cable

0 2 2 m cable

⋮

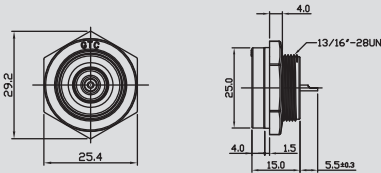
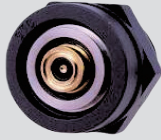
A 0 100 m

Specifications

Magnetic Engineering Specifications		
Specifications		
Current Rating	5A	
AWG Gauge	18 AWG	
Operation temperature	-20°C / +50°C	
IP Rating	Panel: IP67	
Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the Magnetic 5A Connector Specification.
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC500V±10%, test for 1 minute and the insulation resistance should be more than100MΩ
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	1000 V DC/AC peak, contact-to-contact, for 1min.
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	10mΩ at 100mA Max.
Durability	EIA 364-09 or IEC 60512-9a	Magnetic 5A Connector type 50000 cycles ,rate of 250 cycles per hour.
Cable Pull-Out	EIA 364-38 Test Condition A or IEC 60512-13a	After the application of a steady state axial load of 222 N for one hour.
Cable Flexing	EIA 364-41	A traverse 90° in one direction plus 90° in the opposite direction shall be called one cycle, the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles, test withstanding voltage and insulation resistance.
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +50°C, after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 0.5~3.0ml/ 80cm ² / hours, Temperature of the pressure barrel is 43°C, LAB temperature is 35°C, relative humidity of LAB is 95%~98%, test time is 96hr, after the test, check if there is rusty and oxidized phenomenon.

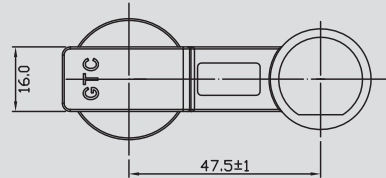
Product Technical Data		
Characteristics	Standard	Description
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	55°C for 96 hours.
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-20°C for 96 hours
Temperature Humidity Cycling	EIA 364-31, Method III Test Condition A	4 cycles at 25°C / +50°C 95%RH (1 cycles/day)

Magnetic Rotating 360° Panel Solder



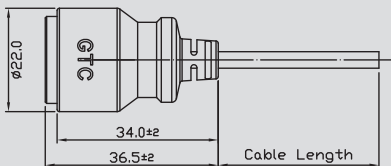
P/N	Rated current (A)	Contacts
GT193000-02020	5	2
GT193000-02021-XX	5	2

Cap Rubber for 5A 2 Contacts Panel Solder



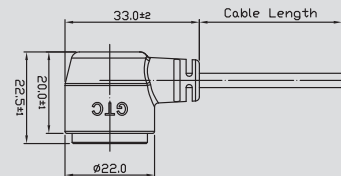
P/N	Mating Series No.
GT1C930002	GT193000 Series

Magnetic Rotating 360° Cable End with Cable



P/N	Rated current (A)	Contacts
GT193110-02021-XX	5	2
GT193110-02022-XX	5	2

Magnetic Rotating 360° Cable End 90° with Cable

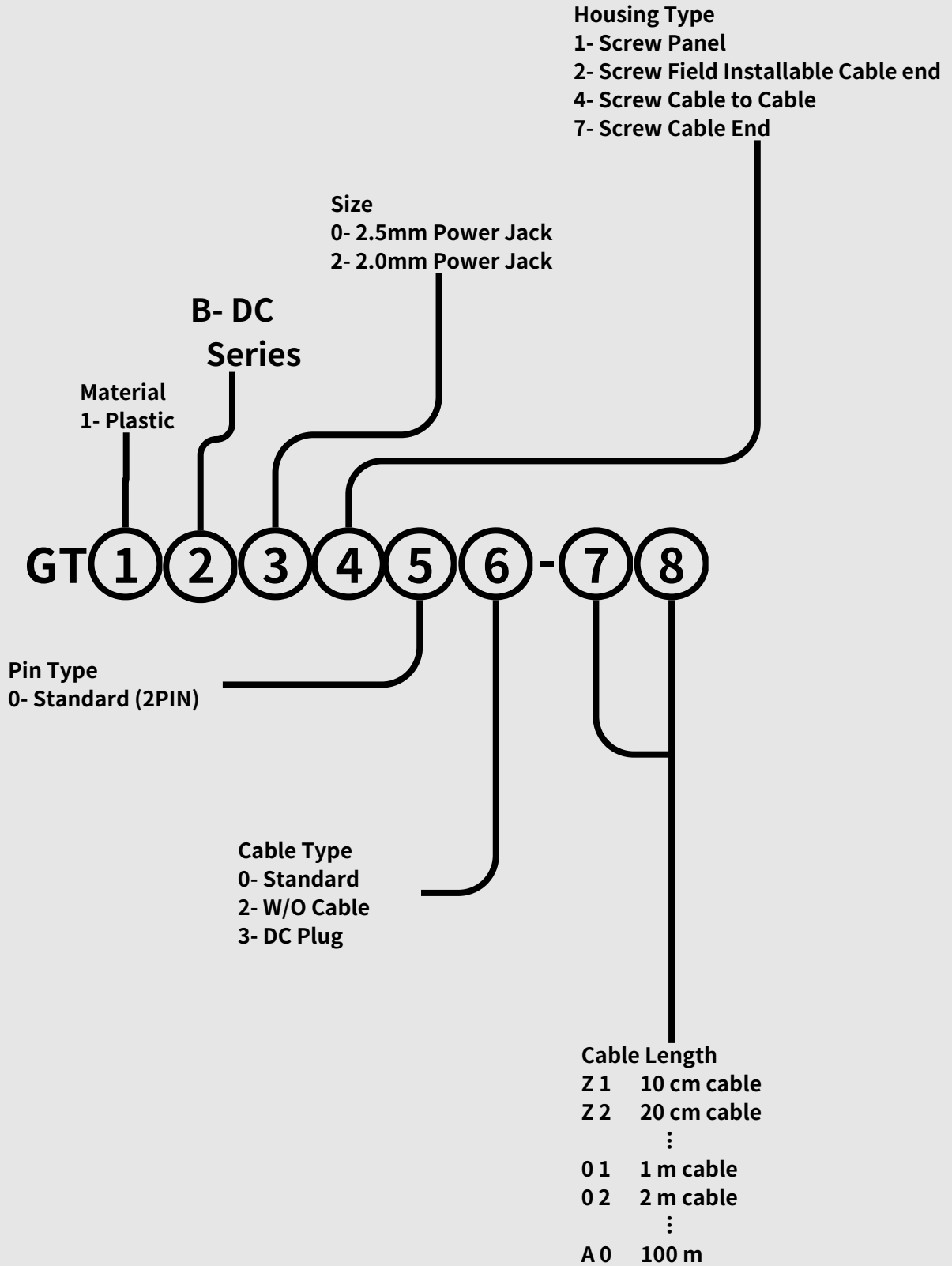


P/N	Rated current (A)	Contacts
GT193119-02021-XX	5	2
GT193119-02022-XX	5	2

DC SERIES



Part Numbering System

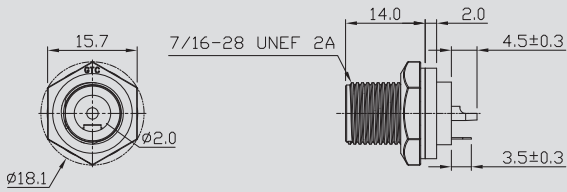


Specifications

DC Jack/Plug Connector Size 1 Engineering Specifications		
Specifications		
Current Rating	2.0mm	3.0A
	2.5mm	7.0A
AWG Gauge	17 AWG - 20 AWG	
Operation temperature	With Cable -40°C / +85°C	
	Without Cable -40°C / +105°C	
IP Rating	IP67	
Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the DC Jack/Plug Specification.
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC500V±10%, test for 1 minute and the insulation resistance should be more than100MΩ
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	500 V AC contact-to-contact, for 1min
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	50mΩ at 10mA Max.
Insertion and withdrawal forces	IEC60512,13b	Max. Speed: 10 mm/s maximum. Insertion force 3N~20 N Withdrawal force 3N~20 N
Durability	EIA 364-09 or IEC 60512-9a	2000 cycles insertion/extraction cycles at a maximum rate of 200 cycles per hour.
Pin Pull Test	EIA 364-08 or IEC 60512-16d	1. Initial: 24 N minimum. 2. After Test: 16 N minimum.
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μs or longer duration when mated DC Jack/Plug connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.

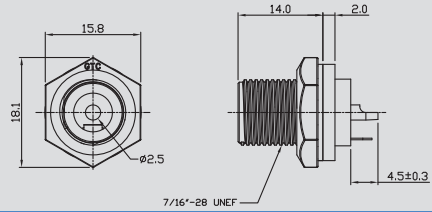
Product Technical Data		
Characteristics	Standard	Description
Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C , after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h , Temperature of the pressure barrel is 43°C , LAB temperature is 35°C , relative humidity of LAB is 95%~98% , test time is 24hr , after the test, check if there is rusty and oxidized phenomenon
Waterproof Test	IEC 60529	Under 1 M water for 30 Min.
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours.
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31, Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (± 3) °C Black Panel Temperature 4 h Condensation at 50 (± 3) °C Black Panel Temperature

DC 2.0mm Panel Jack Solder Screw



P/N	Product
GT1B2102	W/O Cable
GT1B2103-XX	with Cable + 2.0mm DC Plug

DC 2.5mm Panel Mount Screw

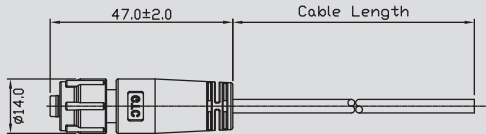


P/N	Product
GT1B0102	W/O Cable
GT1B0103-XX	with Cable + 2.5mm DC Plug

PLASTIC CABLE END & F.I.

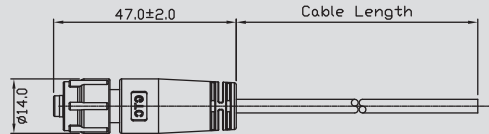
DC

DC Plug 2.0mm Cable End Screw with Cable



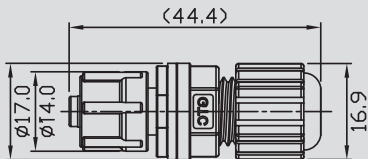
P/N	Product
GT1B2700-XX	with Blunt Cut Cable

DC Plug 2.5mm Cable End Screw with Cable



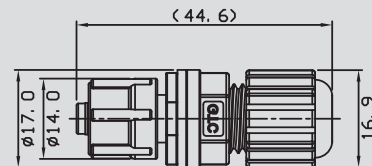
P/N	Product
GT1B0700-XX	with Blunt Cut Cable

DC 2.0mm Field Installable Cable End Screw



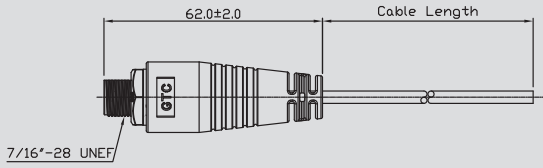
P/N	Product
GT1B2202	2.0mm Plug

DC 2.5mm Screw Field Installable Cable End Screw



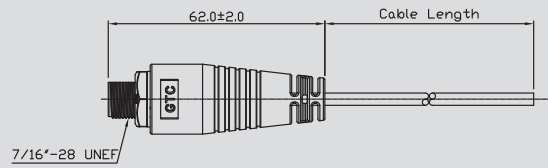
P/N	Product
GT1B0202	2.5mm Plug

DC 2.0mm Cable To Cable Screw



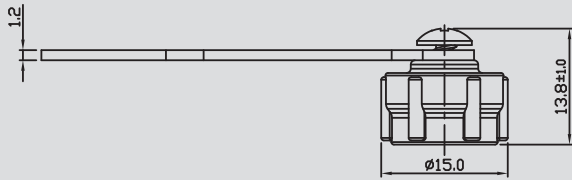
P/N	Product
GT1B2400-XX	with Cable

DC 2.5mm Cable To Cable Screw



P/N	Product
GT1B0400-XX	with Cable

Cap Plastic for C1 Screw Panel



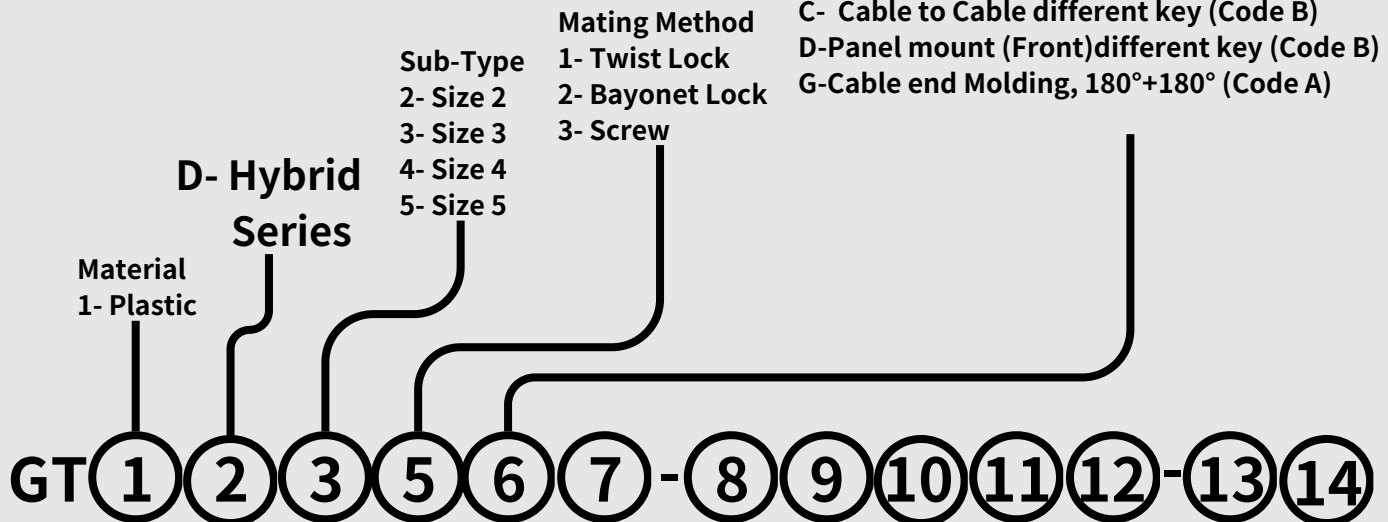
P/N	Mating Series No.
GT1C5131X2	GT1B0102 Series
	GT1B0103 Series
	GT1B0400 Series
	GT1B2102 Series
	GT1B2103 Series
	GT1B2400 Series

HYBRID SERIES



Hybrid

Part Numbering System



Connector Type

- 0- Panel mount (Front)
- 1- Panel mount (Rear)
- 2- Cable end (Molding, 180°) (Code A)
- 3- Cable to Cable (Molding)
- 7- Cable end w/ Housing
- 8- Cable to Cable w/ Housing
- 9- Panel mount (Front) different key
- A- Cable end (Molding 180°) different key (Code B)
- B- Panel mount (Rear) different key (Code B)
- C- Cable to Cable different key (Code B)
- D- Panel mount (Front) different key (Code B)
- G- Cable end Molding, 180°+180° (Code A)

Pin Assembly

- 0- Female + Male
- 1- Male + Female
- 2- Female + Female
- 3- Male + Male
- 4- Dual head Female+Female to Male+Male
- 5- Dual head Female+Female to Female+Female
- 6- Three Pin types, Male/Male/Female
- 7- Three Pin types, Female/Female/Male
- 8- Three Pin types, Male/Male/Female(Shielded)
- 9- Three Pin types, Female/Female/Male(Shielded)

Pin Type

- 0- Solder Pin
- 1- Dip Pin 180°
- 2- Crimp

Current Rating

- 5- 20A+5A
- 6- 20A+2A
- 7- 15A+5A
- 8- 15A+2A
- 9- 10A+5A
- A- 10A+1A
- B- 25A+5A

Contact (Bigger Pin)

- 2- 2 Pin
- 3- 3 Pin
- 4- 4 Pin
- ⋮
- 9- 9Pin
- A- 10Pin
- B- 11Pin

Contact (Smaller Pin)

- 2- 2 Pin
- 3- 3 Pin
- 4- 4 Pin
- ⋮
- 9- 9Pin
- A- 10Pin
- B- 11Pin

Cable Type
Various options
Please contact us

Cable Length

- Z1 10 cm cable
- Z2 20 cm cable
- ⋮
- 01 1 m cable
- 02 2 m cable
- ⋮
- A0 100 m

Specifications

C2 Hybrid Engineering Specifications			
Specifications			
Current Rating	10A+1A		
	10A+5A		
AWG Gauge	10A+1A	18AWG, 26AWG	
	10A+5A	18AWG, 22AWG	
Operation temperature	With Cable -40°C / +85°C		
	Without Cable -40°C / +125°C		
IP Rating	IP67		
Product Technical Data			
Characteristics	Standard	Description	
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the C2 Hybrid Specification.	
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC500V±10%, test for 1 minute and the insulation resistance should be more than100MΩ	
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	10A+1A	1500 V AC contact-to-contact, for 1min.
		10A+5A	1000 V AC contact-to-contact, for 1min.
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	10mΩ at 10mA Max.	
Pin Pull Test	EIA 364-08 or IEC 60512-16d	1.Initial: 24 N minimum. 2.After Test: 16 N minimum.	
Waterproof Test	IEC 60529	Under 1 M water for 30 min.	
Durability	EIA 364-09 or IEC 60512-9a	10A+1A	Screw type 500 cycles ,rate of 200 cycles per hour. Lock type 200 cycles ,rate of 200 cycles per hour.
		10A+5A	Lock type 200 cycles ,rate of 200 cycles per hour.

Product Technical Data		
Characteristics	Standard	Description
Cable Pull-Out	EIA 364-38 Test Condition A or IEC 60512-13a	After the application of a steady state axial load of 40 N for one minute.
Cable Flexing	EIA 364-41	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle , the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles , test withstanding voltage and insulation resistance.
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μs or longer duration when mated C2 Hybrid connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.
Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C , after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h , Temperature of the pressure barrel is 43°C , LAB temperature is 35°C , relative humidity of LAB is 95%~98% , test time is 24hr , after the test, check if there is rusty and oxidized phenomenon
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours .
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31 , Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (±3) °C Black Panel Temperature 4 h Condensation at 50 (±3) °C Black Panel Temperature

Specifications

C3 Hybrid Engineering Specifications		
Specifications		
Current Rating	15A+2A	
AWG Gauge	13AWG, 24AWG	
Operation temperature	With Cable -40°C / +85°C	
	Without Cable -40°C / +105°C	
IP Rating	IP67	
Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the C3 Specification.
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC500V±10%, test for 1 minute and the insulation resistance should be more than100MΩ
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	500 V AC contact-to-contact, for 1min. 2000 V AC contact-to-contact, for 1min.
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	10mΩ at 10mA Max.
Pin Pull Test	EIA 364-08 or IEC 60512-16d	1.Initial: 24 N minimum. 2.After Test: 16 N minimum.
Durability	EIA 364-09 or IEC 60512-9a	Screw type 500 cycles ,rate of 200 cycles per hour. Lock type 200 cycles ,rate of 200 cycles per hour.
Cable Pull-Out	EIA 364-38 Test Condition A or IEC 60512-13a	After the application of a steady state axial load of 40 N for one minute.
Cable Flexing	EIA 364-41	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle, the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles , test withstanding voltage and insulationresistance.

Product Technical Data		
Characteristics	Standard	Description
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μ s or longer duration when mated C3 connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.
Random Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g^2 /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C , after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h , Temperature of the pressure barrel is 43°C , LAB temperature is 35°C , relative humidity of LAB is 95%~98% , test time is 24hr , after the test, check if there is rusty and oxidized phenomenon
Waterproof Test	IEC 60529	Under 1 M water for 30 min.
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31 , Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (\pm 3) °C Black Panel Temperature 4 h Condensation at 50 (\pm 3) °C Black Panel Temperature

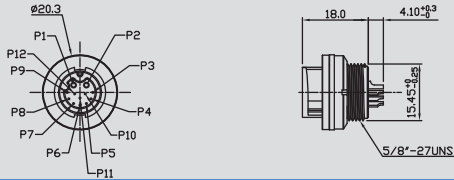
Specifications

C4&C5 Hybrid Engineering Specifications		
Specifications		
Current Rating	600VAC/25A+30VDC/5A	
AWG Gauge	12AWG, 24AWG	
Operation temperature	With Cable -40°C / +85°C	
	Without Cable -40°C / +125°C	
IP Rating	IP67	
Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the C4/C5 Hybrid Specification.
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC 500V±10%, test for 1 minute and the insulation resistance should be more than100MΩ
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	Power Pin : 2500 V AC contact-to-contact, for 1min.
		Signal Pin : 500 V AC contact-to-contact, for 1min.
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	10mΩ at 10mA Max.
Pin Pull Test	EIA 364-08 or IEC 60512-16d	1. Initial : 24 N minimum. 2. After Test : 16 N minimum.
Durability	EIA 364-09 or IEC 60512-9a	Lock type 200 cycles ,rate of 200 cycles per hour.
Cable Pull-Out	EIA 364-38 or IEC 60512-13a Test Condition A	After the application of a steady state axial load of 40 N for one minute.
Cable Flexing	EIA 364-41	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle, the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles, test withstanding voltage and insulation resistance

Product Technical Data

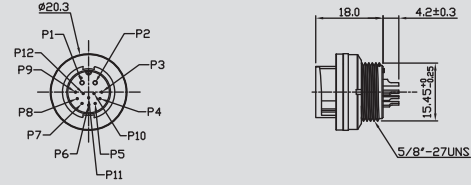
Characteristics	Standard	Description
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μ s or longer duration when mated C4/C5 Hybrid connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.
Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency : 50 to 2000 Hz PDS : 0.04 g ² /Hz. Duration : 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C, after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h, Temperature of the pressure barrel is 43 °C, LAB temperature is 35 °C, relative humidity of LAB is 95%~98%, test time is 24hr, after the test, check if there is rusty and oxidized phenomenon.
Waterproof Test	IEC 60529	Under 1 M water for 30 min.
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours .
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31, Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (\pm 3) °C Black Panel Temperature 4 h Condensation at 50 (\pm 3) °C Black Panel Temperature

C2 Plastic Panel Rear Mount Female Solder Lock (Code A)



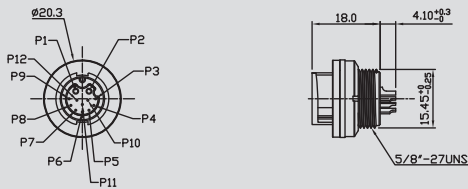
P/N	Rated current (A)	Contacts
GT1D2212-0A2A0(S)	10+1	2+10

C2 Plastic Panel Rear Mount Male Solder Lock (Code A)



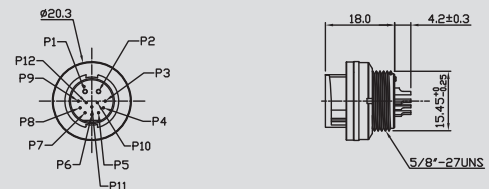
P/N	Rated current (A)	Contacts
GT1D2213-0A2A0(S)	10+1	2+10

C2 Plastic Panel Rear Mount Female Solder Lock (Code B)



P/N	Rated current (A)	Contacts
GT1D22B2-0A2A0(S)	10+1	2+10

C2 Plastic Panel Rear Mount Male Solder Lock (Code B)

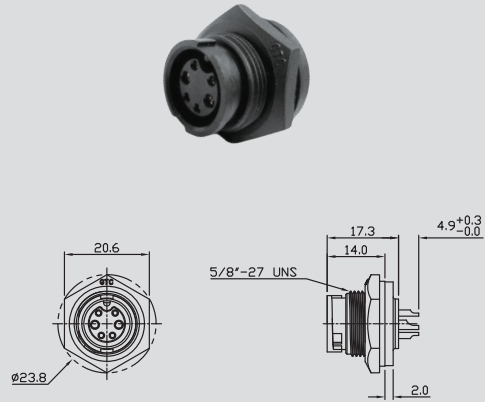


P/N	Rated current (A)	Contacts
GT1D22B3-0A2A0(S)	10+1	2+10

PLASTIC PANEL MOUNT

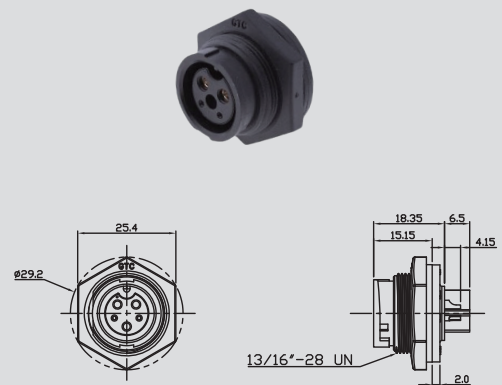
HYBRID

C2 Plastic Panel Female Solder Lock



P/N	Rated current (A)	Contacts
GT1D2202-09240	5+10	2+4

C3 Plastic Panel Female Solder Lock



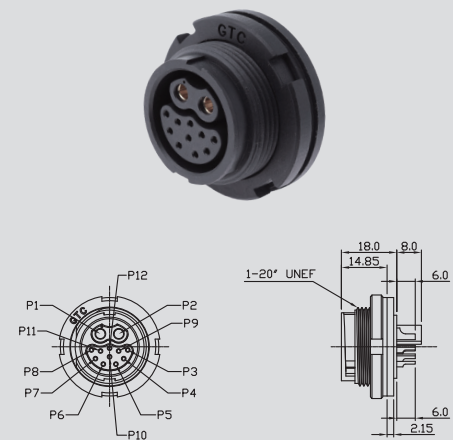
P/N	Rated current (A)	Contacts
GT1D3202-0A320(FS)	10+2	3+2
GT1D3202-08220	15+2	2+2
GT1D3202-082A0(FS)	15+2	2+10

C3 Plastic Panel Male / Female Solder Screw



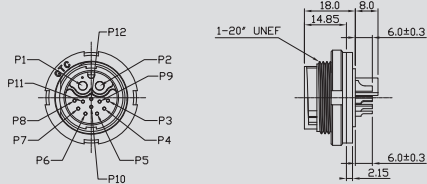
P/N	Rated current (A)	Contacts
GT1D3308-08270(S)	15+2+2	2+3+4

C4 Plastic Panel Female Solder Lock (Code A)



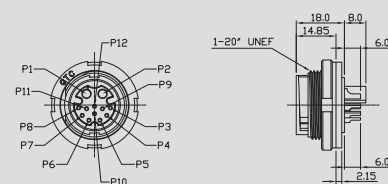
P/N	Rated current (A)	Contacts
GT1D4202-052A0(FS)	25+5	2+10

C4 Plastic Panel Male Solder Lock (Code A)



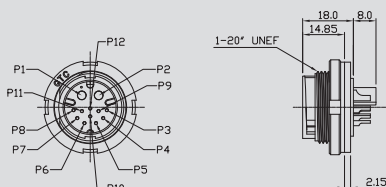
P/N	Rated current (A)	Contacts
GT1D4203-052A0(FS)	25+5	2+10

C4 Plastic Panel Female Solder Lock (Code B)



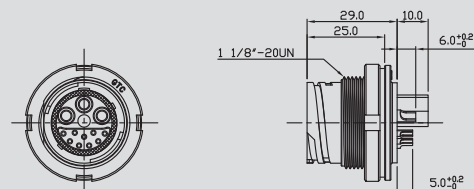
P/N	Rated current (A)	Contacts
GT1D4292-052A0(FS)	25+5	2+10

C4 Plastic Panel Male Solder Lock (Code B)



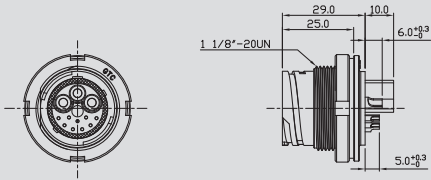
P/N	Rated current (A)	Contacts
GT1D4293-052A0(FS)	25+5	2+10

C5 Plastic Panel Female Twist Lock



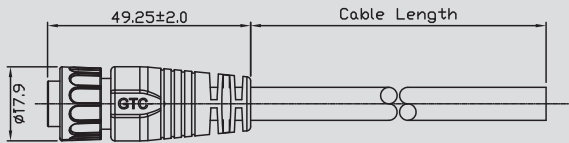
P/N	Rated current (A)	Contacts
GT1D5102-05390(FS)	20+5	3+9

C5 Plastic Panel Male Twist Lock



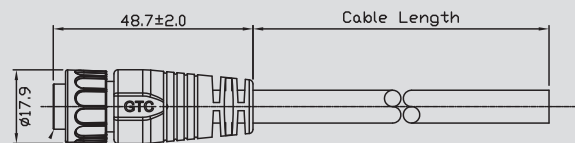
P/N	Rated current (A)	Contacts
GT1D5103-05390(FS)	20+5	3+9

C2 Plastic Cable End Male Lock (Code A)



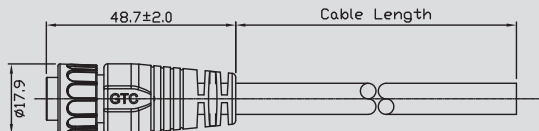
P/N	Rated current (A)	Contacts
GT1D2223-2A2A1-XX	10+1	2+10

C2 Plastic Cable End Female Lock (Code A)



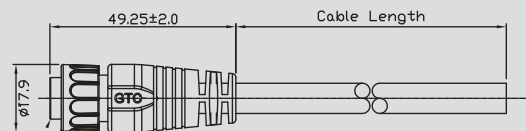
P/N	Rated current (A)	Contacts
GT1D2222-2A2A1-XX	10+1	2+10

C2 Plastic Cable End Female Lock (Code B)



P/N	Rated current (A)	Contacts
GT1D22A2-2A2A1-XX	10+1	2+10

C2 Plastic Cable End Male Lock (Code B)

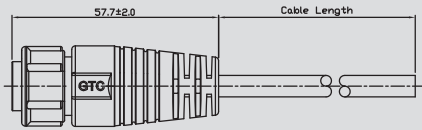


P/N	Rated current (A)	Contacts
GT1D22A3-2A2A1-XX	10+1	2+10

PLASTIC CABLE END

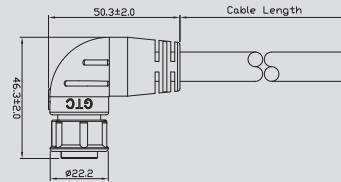
HYBRID

C3 Plastic Cable End Male Lock



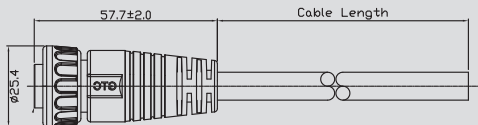
P/N	Rated current (A)	Contacts
GT1D3223-0A327-XX	10+2	3+2
GT1D3223-28221-XX	15+2	2+2

C3 Plastic Cable End 90° Male Lock



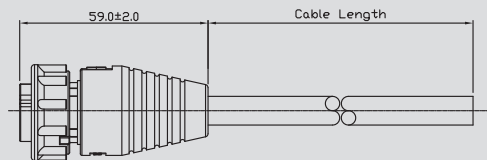
P/N	Rated current (A)	Contacts
GT1D3263-282A1-XX(F)	15+2	2+10

C3 Plastic Cable End Male / Female Screw



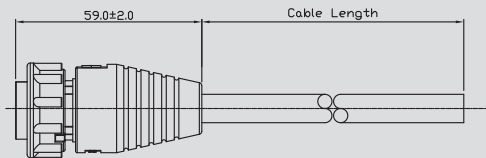
P/N	Rated current (A)	Contacts
GT1D3329-08271-XX	15+2+2	2+3+4

C4 Plastic Cable End Female Lock (Code A)



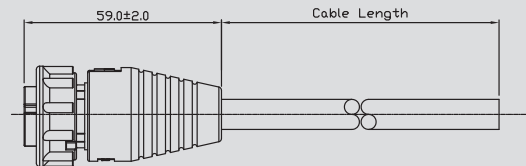
P/N	Rated current (A)	Contacts
GT1D4222-052A8-XX(F)	25+5	2+10

C4 Plastic Cable End Male Lock (Code A)



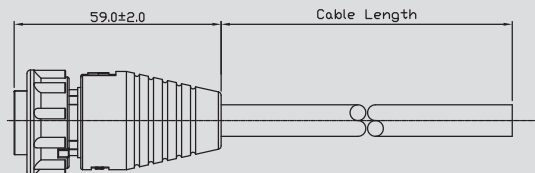
P/N	Rated current (A)	Contacts
GT1D4223-052A8-XX(F)	25+5	2+10

C4 Plastic Cable End Female Lock (Code B)



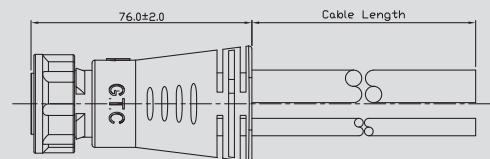
P/N	Rated current (A)	Contacts
GT1D42A2-052A8-XX(F)	25+5	2+10

C4 Plastic Cable End Male Lock (Code B)



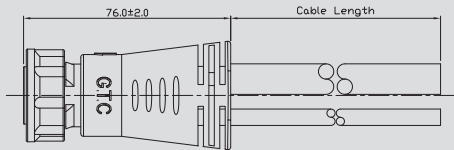
P/N	Rated current (A)	Contacts
GT1D42A3-052A8-XX(F)	25+5	2+10

C5 Plastic Cable End Female Twist Lock



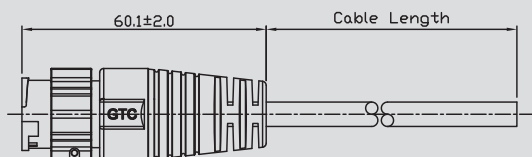
P/N	Rated current (A)	Contacts
GT1D5122-25393-XX(F)	20+5	3+9

C5 Plastic Cable end Male Twist Lock



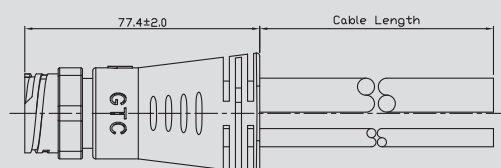
P/N	Rated current (A)	Contacts
GT1D5123-25393-XX(F)	20+5	3+9

C3 Plastic Cable To Cable Female Lock with Cable



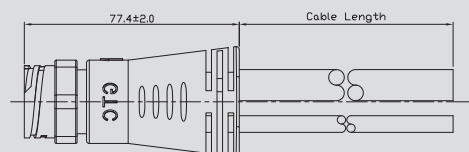
P/N	Rated current (A)	Contacts
GT1D3232-0A327-XX	10+2	3+2

C5 Plastic Cable to Cable Female Twist Lock with Cable



P/N	Rated current (A)	Contacts
GT1D5132-25393-XX(F)	20+5	3+9

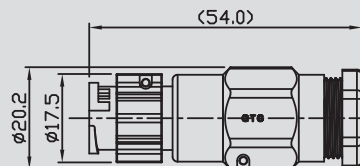
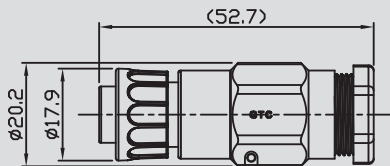
C5 Plastic Cable to Cable Male Twist Lock with Cable



P/N	Rated current (A)	Contacts
GT1D5133-25393-XX(F)	20+5	3+9

C2 Plastic Field Installable Cable End Male Crimp Lock

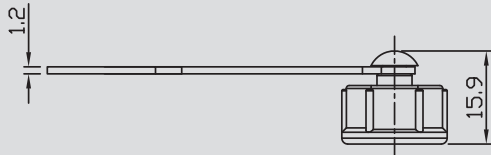
C2 Plastic Field Installable Cable To Cable Female Crimp Lock



P/N	Rated current (A)	Contacts
GT1D2243-29240	5+10	4+2

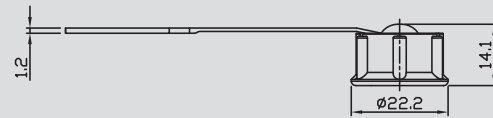
P/N	Rated current (A)	Contacts
GT1D2252-29240	5+10	4+2

Cap Plastic For C2 Lock Panel



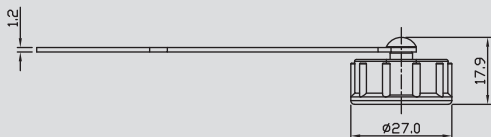
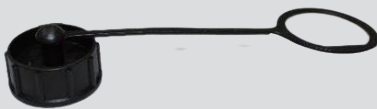
P/N	Mating Series No.
GT1C5221X2	GT1D22B2 Series
	GT1D22B3 Series
	GT1D2202 Series
	GT1D2212 Series
	GT1D2213 Series

Cap Plastic for C3 Lock Panel



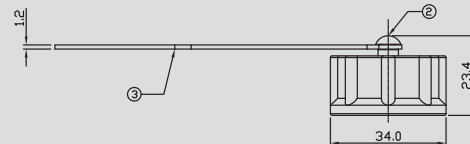
P/N	Mating Series No.
GT1C5321X2	GT1D3202 Series

Cap Plastic For C4 Lock Panel



P/N	Mating Series No.
GT1C5421X2	GT1D4202 Series
	GT1D4203 Series
	GT1D4292 Series
	GT1D4293 Series

Cap Plastic for C5 Twist Lock Panel



P/N	Mating Series No.
GT1C5511X2	GT1D5102 Series
	GT1D5103 Series

POWER SERIES



POWER

Part Numbering System

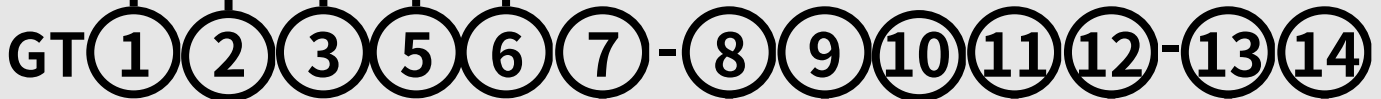
Connector Type
0- Panel mount (Rear) (Field Installable)
1- Cable end (Field Installable)

Mating Method
4- Push Lock

Sub-Type
1- M35
2- M25

E- Power Series

Material
1- Plastic



Pin Type
0- Female
1- Male

Pin Style
4- Screw-in

Current Rating
1- 30 A
2- 41 A

Contact
03- 3 Pin

Cable Type
0- w/o cable
1- Standard cable

Cable Length
Z 1 10 cm cable
Z 2 20 cm cable
:
0 1 1 m cable
0 2 2 m cable
:
A 0 100 m

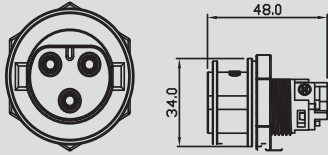
Specifications

M25 / M35 Power Push Lock Engineering Specifications		
Specifications		
Current Rating	M25	600VAC/VDC 30A
	M35	600VAC /VDC 41A
AWG Gauge	M25	10AWG
	M35	8AWG
Operation temperature	With Cable -40°C / +85°C	
	Without Cable -40°C / +105°C	
IP Rating	IP67	
Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the Power Specification.
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC 500V±10% , test for 1 minute and the insulation resistance should be more than100MΩ
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	Power Pin:2500 V AC contact-to-contact, for 1min.
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	10mΩ at 10mA Max.
Durability	EIA 364-09 or IEC 60512-9a	100 cycles insertion/extraction cycles at a maximum Speed of 6 times per min.
Cable Pull-Out	EIA 364-38 Test Condition A or IEC 60512-13a	After the application of a steady state axial load of 45 N for one minute.

Product Technical Data

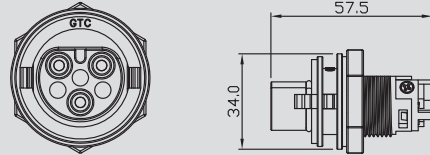
Characteristics	Standard	Description	
Machine Screw Force	GTC testing result	M25	Insert stripped wire into screw-in pin, tighten. [8.0Kg-cm]min.
		M35	Insert stripped wire into screw-in pin, tighten. [2.0 Nm]min.
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μ s or longer duration when mated Power connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.	
Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms	
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C , after the test, the function and appearance can't be impacted.	
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h , Temperature of the pressure barrel is 43°C , LAB temperature is 35°C , relative humidity of LAB is 95%~98% , test time is 24hr , after the test, check if there is rusty and oxidized phenomenon	
Waterproof Test	IEC 60529	Under 1 M water for 30 min.	
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours .	
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours.	
Temperature Humidity Cycling	EIA 364-31 , Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day))	
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	4 H equal 1 year: 8 h UV at 70 (\pm 3) °C Black Panel Temperature 4 h Condensation at 50 (\pm 3) °C Black Panel Temperature	

M25 Field Installable Panel Mount Female Push Lock



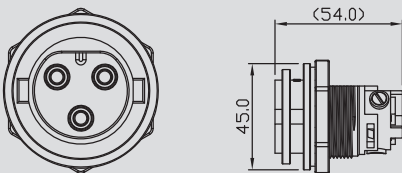
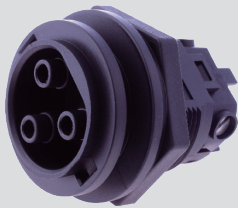
P/N	Rated current (A)	Contacts
GT1E2400-41030	30	3

M25 Field Installable Panel Mount Male Push Lock



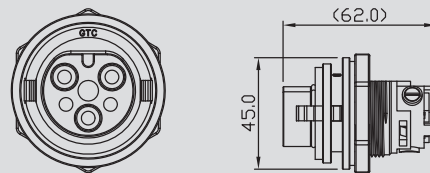
P/N	Rated current (A)	Contacts
GT1E2401-41030	30	3

M35 Field Installable Panel Mount Female Push Lock



P/N	Rated current (A)	Contacts
GT1E1400-42030	41	3

M35 Field Installable Panel Mount Male Push Lock

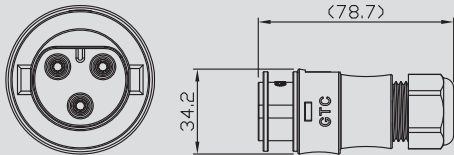


P/N	Rated current (A)	Contacts
GT1E1401-42030	41	3

PLASTIC CABLE END

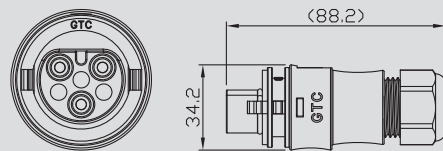
Power

M25 Field Installable Cable End Female Push Lock



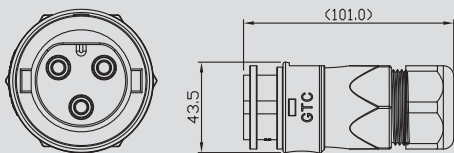
P/N	Rated current (A)	Contacts
GT1E2410-41033	30	3

M25 Field Installable Cable End Male Push Lock



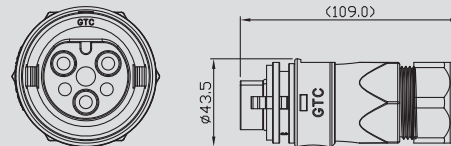
P/N	Rated current (A)	Contacts
GT1E2411-41033	30	3

M35 Field Installable Cable End Female Push Lock



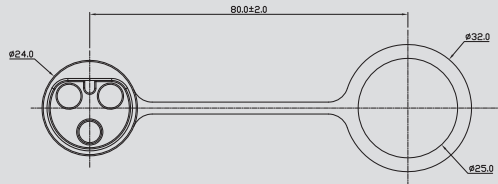
P/N	Rated current (A)	Contacts
GT1E1410-42032	41	3

M35 Field Installable Cable End Male Push Lock



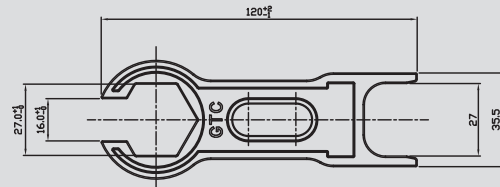
P/N	Rated current (A)	Contacts
GT1E1411-42032	41	3

Cap for M25 Female



P/N	Mating Series No.
GT5CE24122	GT1E2400 Series
	GT1E2410 Series

Tool



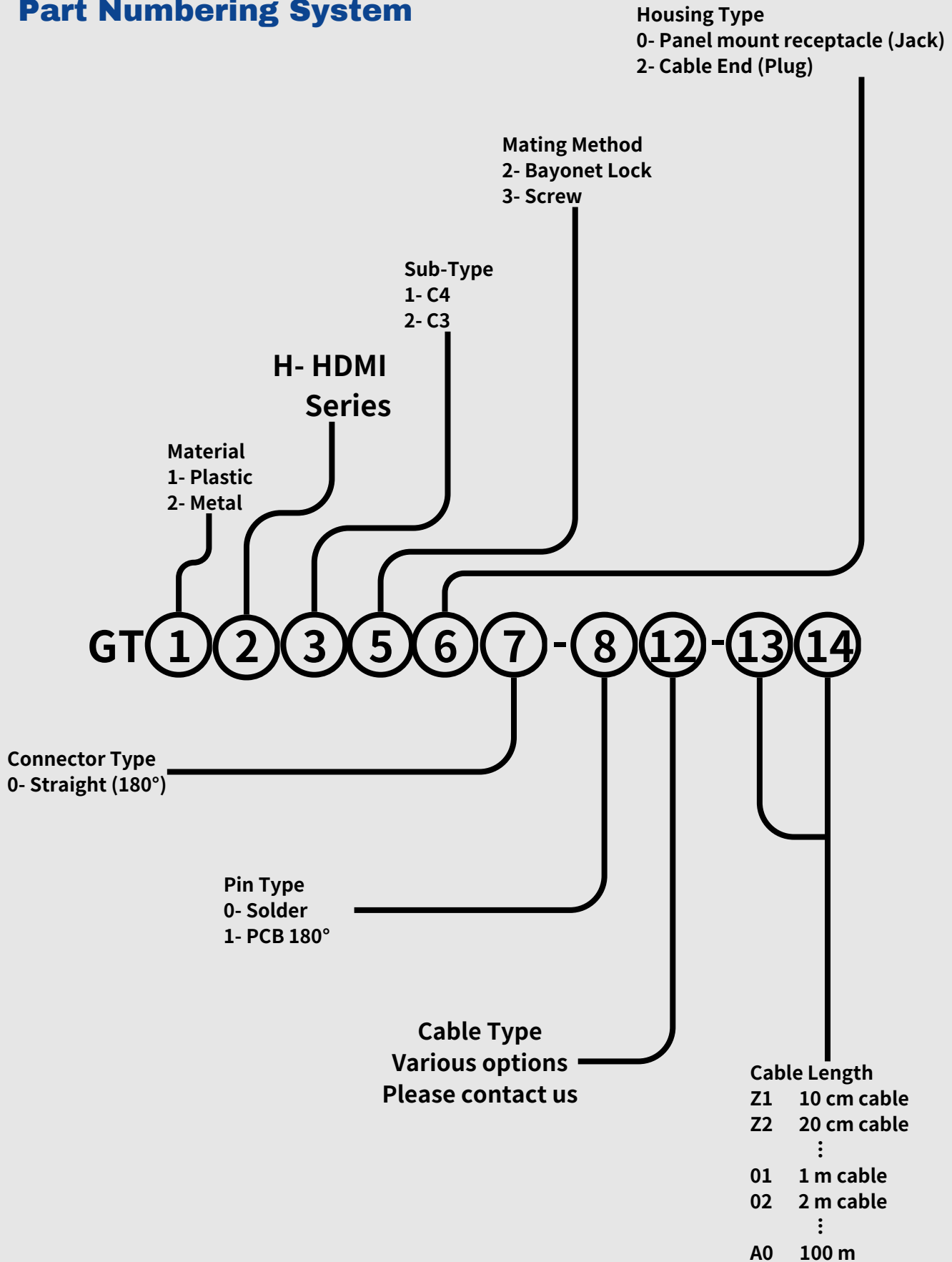
P/N	Product
GT601E2-X8105	M25 Tool
GT601E1-X8107	M35 Tool

HDMI SERIES



HDMI

Part Numbering System



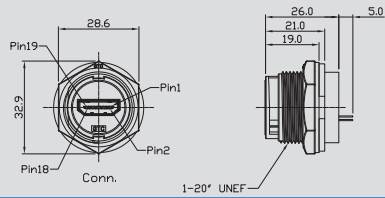
Specifications

HDMI Plastic / Metal Engineering Specifications			
Specifications			
Current Rating	0.5A		
AWG Gauge	28 AWG		
Operation temperature	With Cable -40°C / +85°C		
	Without Cable -40°C / +105°C		
IP Rating	Plastic	IP67	
	Metal	IP68	
Product Technical Data			
Characteristics	Standard	Description	
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the HDMI Specification.	
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC500V±10%, test for 1 minute and the insulation resistance should be more than100MΩ	
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	500 V DC/AC peak, contact-to-contact, for 1min.	
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	30mΩ at 10mA Max.	
Insertion and withdrawal forces	IEC60512,13b	Speed: 10 mm/s maximum. Insertion: 15 N maximum at a maximum rate of 12.5 mm (0.492") per minute. Withdrawal: 4 N minimum at a maximum rate of 12.5 mm (0.492") per minute.	
Durability	EIA 364-09 or IEC 60512-9a	Plastic	Lock type 200 cycles, rate of 200 cycles per hour.
		Metal	Screw type 5000 cycles, rate of 200 cycles per hour.
Cable Pull-Out	EIA 364-38 Test Condition A or IEC 60512-13a	After the application of a steady state axial load of 40 N for one minute.	

Product Technical Data

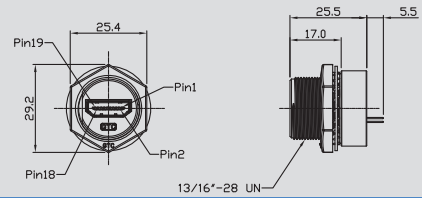
Characteristics	Standard	Description	
Cable Flexing	EIA 364-41	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle , the cycling rate shall be 12 to 14 cycles per minute.	
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μs or longer duration when mated HDMI connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.	
Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms	
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C , after the test, the function and appearance can't be impacted.	
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h, Temperature of the pressure barrel is 43°C, LAB temperature is 35°C, relative humidity of LAB is 95%~98%, test time is 48hr, after the test, check if there is rusty and oxidized phenomenon.	
Waterproof Test	IEC 60529	Plastic	Under 1 M water for 30 Min.
		Metal	Under 1 M water for 24hr
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours.	
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours	
Temperature Humidity Cycling	EIA 364-31, Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)	
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (± 3) °C Black Panel Temperature 4 h Condensation at 50 (± 3) °C Black Panel Temperature	

HDMI C4 Plastic Panel Jack Lock



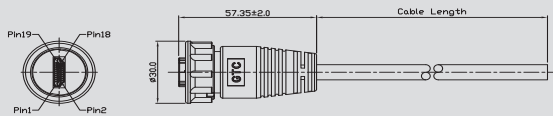
P/N	Product
GT1H1200-10	Dip Pin
GT1H1200-20	Dip Pin 90°
GT1H1200-01-XX	with Cable + HDMI Jack
GT1H1200-02-XX	with Cable + HDMI Plug
GT1H1200-03-XX	with Blunt Cut Cable

HDMI C3 Metal Panel Jack Screw



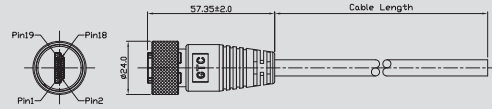
P/N	Product
GT2H2300-10	Dip Pin
GT2H2300-20	Dip Pin 90°
GT2H2300-01-XX	with Cable + HDMI Jack
GT2H2300-01-XX(G)	with Cable + HDMI Jack (Green Color Housing)
GT2H2300-02-XX	with Cable + HDMI Plug
GT2H2300-02-XX(G)	with Cable + HDMI Plug (Green Color Housing)
GT2H2300-03-XX	with Blunt Cut Cable
GT2H2300-03-XX(G)	with Blunt Cut Cable (Green Color Housing)

HDMI C4 Plastic Cable End Plug Lock with Cable



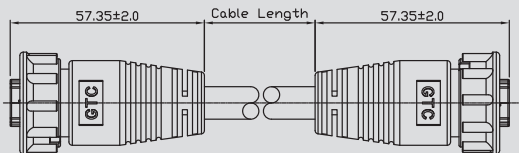
P/N	Product
GT1H1220-01-XX	with Cable + HDMI Jack
GT1H1220-02-XX	with Cable + HDMI Plug
GT1H1220-03-XX	with Blunt Cut Cable

HDMI C3 Metal Cable End Plug Screw with Cable



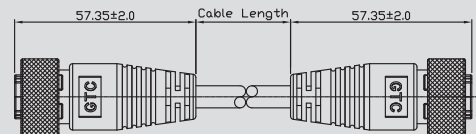
P/N	Product
GT2H2320-01-XX	with Cable + HDMI Jack
GT2H2320-01-XX(G)	with Cable + HDMI Jack (Green Screw Nut)
GT2H2320-02-XX	with Cable + HDMI Plug
GT2H2320-02-XX(G)	with Cable + HDMI Plug (Green Screw Nut)
GT2H2320-03-XX	with Blunt Cut Cable
GT2H2320-03-XX(G)	with Blunt Cut Cable (Green Screw Nut)

HDMI C4 Plastic Cable End Plug Dual Head Lock with Cable



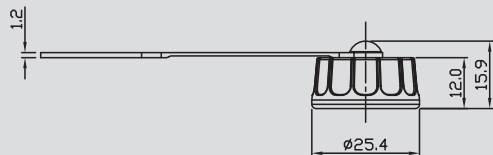
P/N	Product
GT1H1220-0M-XX	Dual Head Plug

HDMI C3 Metal Cable End Plug Dual Head Screw with Cable



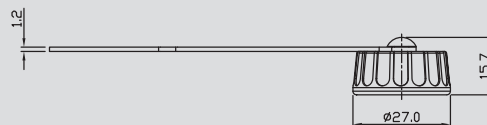
P/N	Product
GT2H2320-0M-XX	Dual Head plug
GT2H2320-0M-XX(G)	Dual Head plug (Green Screw Nut)

Cap Plastic C3 Screw



P/N	Mating Series No.
GT1C5331X2	GT2H2300 Series

Cap Plastic C4 Lock



P/N	Mating Series No.
GT1C1110X2	GT1H1200 Series

Cap Metal C3 Screw



P/N	Mating Series No.
GT2C2150X2	GT2H2300 Series

SNAP-IN SERIES

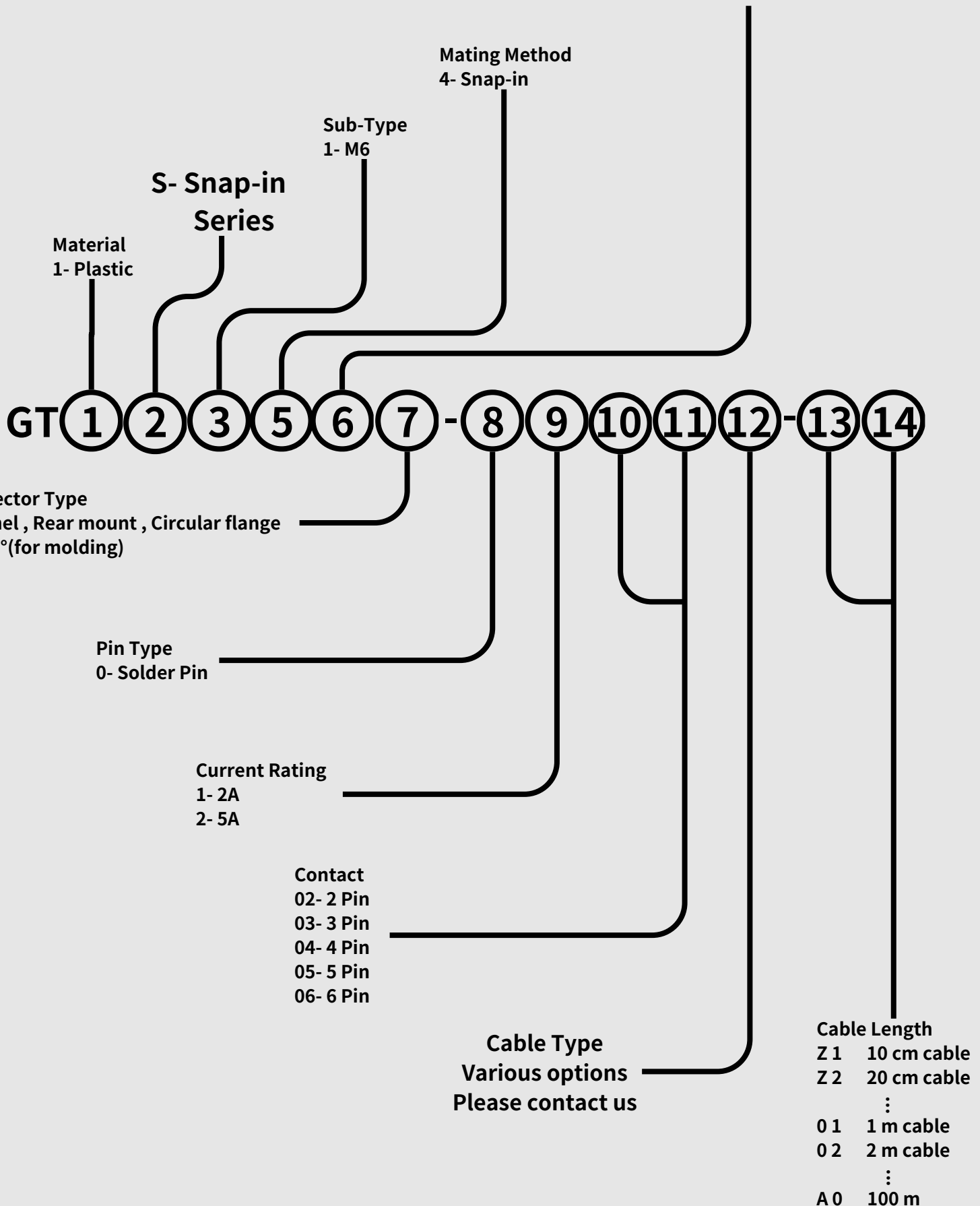


Snap-in

Part Numbering System

Housing Type

- 0- Panel mount receptacle, Female Pin
- 1- Panel mount receptacle, Male Pin
- 2- Cable end(Plug) , Female Pin
- 3- Cable end(Plug) , Male Pin
- B- Dual head F-M (Cable end (Plug)
- C- Dual head F-F (Cable end (Plug)



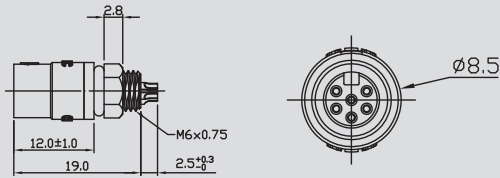
Specifications

Snap-in M6 2 to 6 Contact Connector Engineering Specifications			
Specifications			
Operation temperature	With Cable -40°C / +85°C		
IP Rating	IP67		
Number Of Ways	AWG Gauge	Voltage	Amps
2	22AWG	300V	5A
3			
5	24AWG	30V	2A
6			
Product Technical Data			
Characteristics	Standard	Description	
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the Snap-in M6 Specification.	
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC500V±10%, test for 1 minute and the insulation resistance should be more than100MΩ	
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	500V AC contact-to-contact, for 1min.	
Contact Resistance	EIA 364-23 or IEC 60512-2b	10mΩ at 100mA Max.	
Cable Pull-Out	EIA 364-38 Test Condition A or IEC 60512-13a	2/3 Ways	After the application of a steady state axial load of 40 N for 1 minute
		5/6 Ways	After the application of a steady state axial load of 222 N for 1 hour
Durability	EIA 364-09 or IEC 60512-9a	Snap-in type 2000 cycles ,rate of 250 cycles per hour.	

Product Technical Data

Characteristics	Standard	Description
Cable Flexing	EIA 364-41	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle , the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles , test withstanding voltage and insulation resistance
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μs or longer duration when mated Snap-in M6 connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.
Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C , after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 0.5~3.0ml/ 80cm ² / hours , Temperature of the pressure barrel is 43°C , LAB temperature is 35°C , relative humidity of LAB is 95%~98% , test time is 48hr , after the test, check if there is rusty and oxidized phenomenon
Waterproof Test	IEC 60529	Under 1 M water for 30 Min.
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	80°C for 96 Hours
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-20°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31 , Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH, Test time condition A 96Hours.

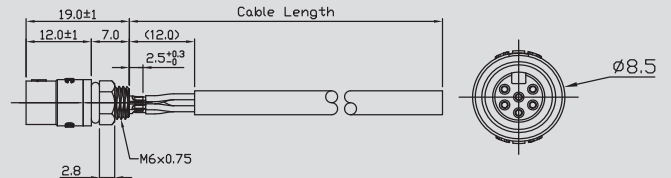
Plastic Panel Female



P/N	Rated current (A)	Contacts
GT1S1401-01040	2	4
GT1S1401-01050	2	5
GT1S1401-01050(Y)	2	5
GT1S1401-01060	2	6
GT1S1401-0202X	5	2
GT1S1401-0203X	5	3

*(Y) = Yellow Housing

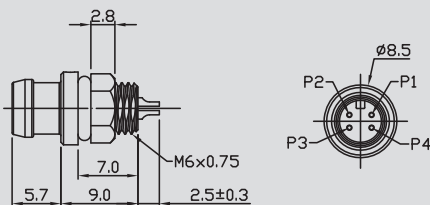
Plastic Panel Female with Cable



P/N	Rated current (A)	Contacts
GT1S1401-0104X-XX	2	4
GT1S1401-0105X-XX	2	5
GT1S1401-0105X-XX(Y)	2	5
GT1S1401-0106X-XX	2	6
GT1S1401-0202X-XX	5	2
GT1S1401-0203X-XX	5	3

*(Y) = Yellow Housing

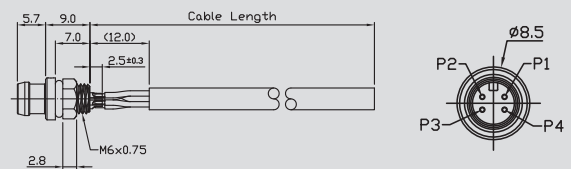
Plastic Panel Male



P/N	Rated current (A)	Contacts
GT1S1411-01040	2	4
GT1S1411-01050	2	5
GT1S1411-01050(Y)	2	5
GT1S1411-01060	2	6
GT1S1411-0202X	5	2
GT1S1411-0203X	5	3

*(Y) = Yellow Housing

Plastic Panel Male with Cable



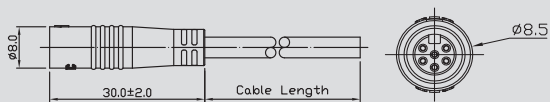
P/N	Rated current (A)	Contacts
GT1S1411-0104X-XX	2	4
GT1S1411-0105X-XX	2	5
GT1S1411-0105X-XX(Y)	2	5
GT1S1411-0106X-XX	2	6
GT1S1411-0202X-XX	5	2
GT1S1411-0203X-XX	5	3

*(Y) = Yellow Housing

PLASTIC CABLE END & CAP

Snap-in

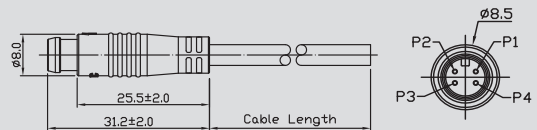
Plastic Cable End Female with Cable



P/N	Rated current (A)	Contacts
GT1S1424-0104X-XX	2	4
GT1S1424-0105X-XX	2	5
GT1S1424-01051-XX(Y)	2	5
GT1S1424-0106X-XX	2	6
GT1S2424-01082-XX	2	8
GT1S1424-0202X-XX	5	2
GT1S1424-0203X-XX	5	3

*(Y) = Yellow Housing

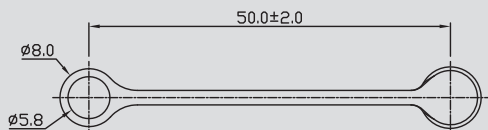
Plastic Cable End Male with Cable



P/N	Rated current (A)	Contacts
GT1S1434-0104X-XX	2	4
GT1S1434-0105X-XX	2	5
GT1S1434-01051-XX(Y)	2	5
GT1S1434-0106X-XX	2	6
GT1S2434-01082-XX	2	8
GT1S1434-0202X-XX	5	2
GT1S1434-0203X-XX	5	3

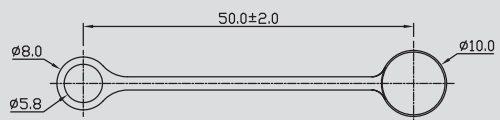
*(Y) = Yellow Housing

Cap for Male



P/N	Mating Series No.
GT5C374192	GT1S1411 Series

Cap for Female



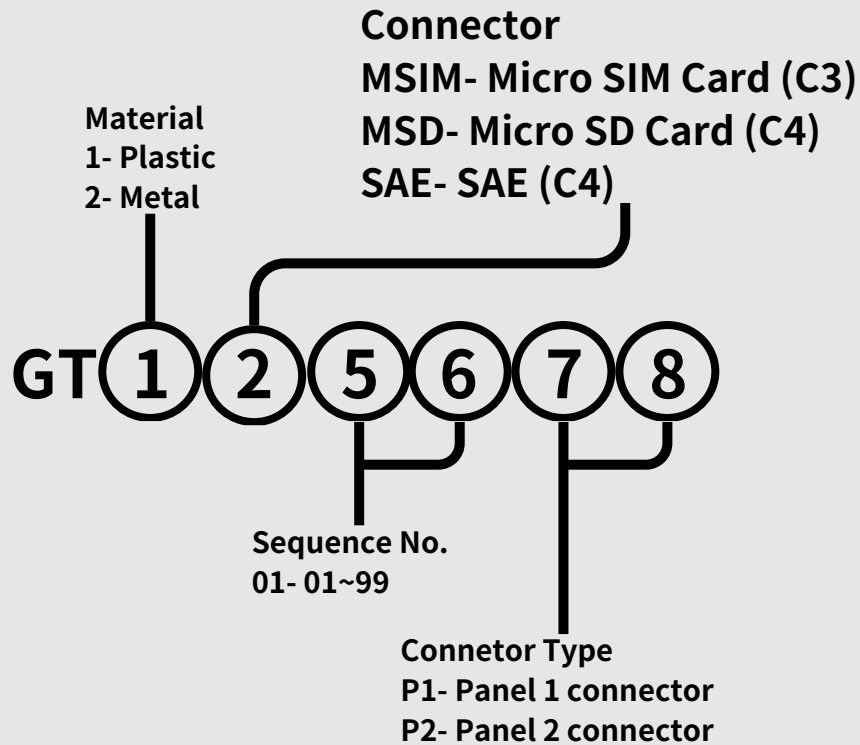
P/N	Mating Series No.
GT5C374092	GT1S1401 Series

MISCELLANEOUS



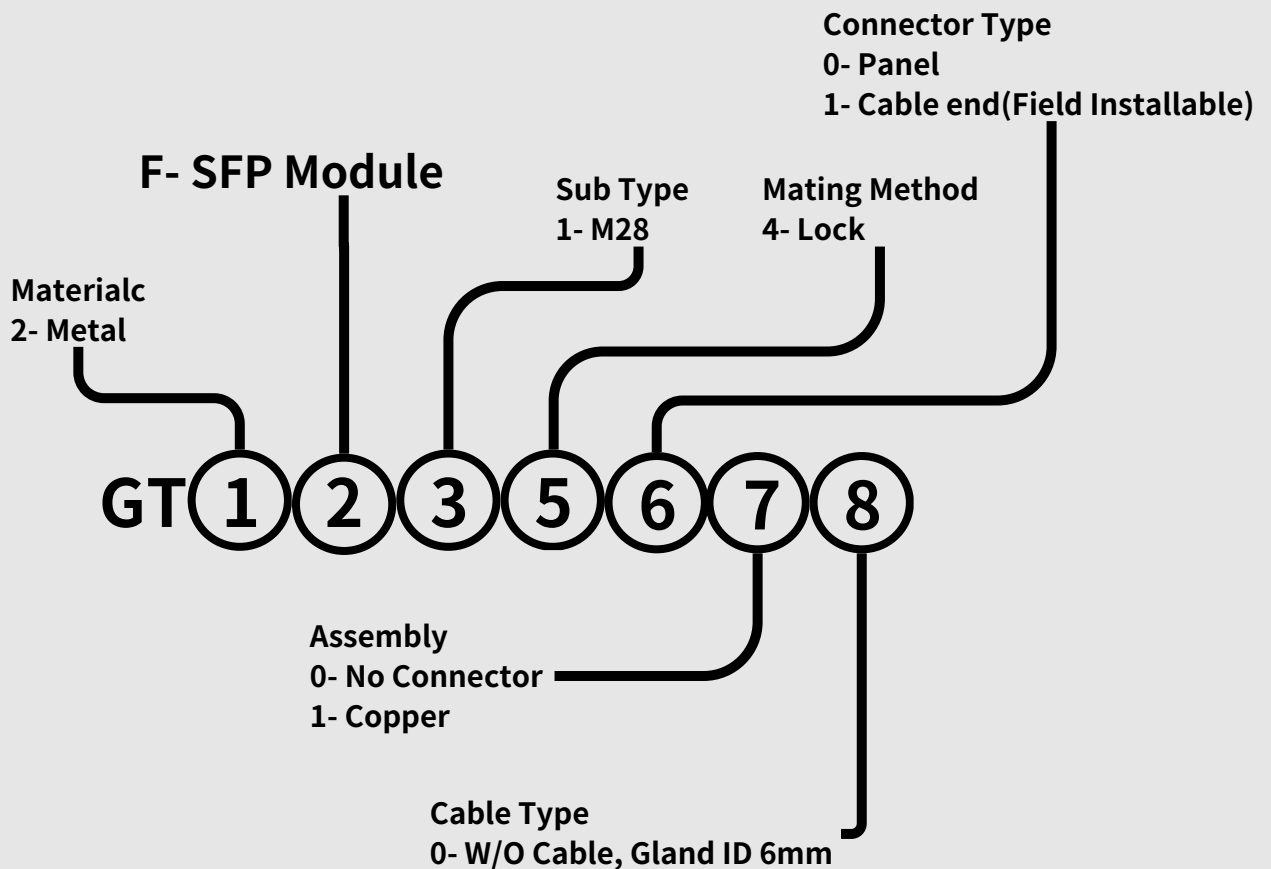
SIM CARD / SD CARD / SAE

Part Numbering System



SFP

Part Numbering System



Specifications

Micro SIM Card Plastic Engineering Specifications		
Specifications		
Current Rating	0.5A	
Operation temperature	-40°C / +75°C	
IP Rating	IP67	
Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the Specification.
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC 500V±10% · test for 1 minute and the insulation resistance should be more than1000MΩ
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	500V AC peak, contact-to-contact, for 1min.
Contact Resistance	EIA 364-6B	Mated contacts assembled in housing to 20mV Max open circuit at 10mA Max. Initial:100 mΩ Max. (SW Pin:150mΩ Max.) Final:25mΩ Max. (SW Pin:50mΩ Max.)
Insertion forces	EIA-364-13B	10N Max.
Withdrawal forces	EIA-364-13B	0.5N Min
Durability	EIA 364-09	3000 cycles, rate of 10 cycle/min.
Physical Shock	EIA 364-27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μs or longer duration when mated connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each diTrection applied along three mutually perpendicular planes for a total of 18 shocks.

Product Technical Data		
Characteristics	Standard	Description
Vibration	EIA 364-28D	Mated connectors to 10-55 Hz traversed in 1minutes at 1.52mm amplitude 2 Hours each of 3 mutually perpendicular planes. The electrical load condition shall be 100mA Max. No electrical discontinuity greater than 0.1 or 1µsec shall occur.
Thermal Shock	EIA 364-32 Test Condition I or IEC 60512-11d	10 cycles at -55°C / +85°C , after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (Nacl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h , Temperature of the pressure barrel is 43°C , LAB temperature is 35°C , relative humidity of LAB is 95%~98% , test time is 24hr , after the test, check if there is rusty and oxidized phenomenon
Waterproof Test	IEC 60529	Under 1 M water for 30 minutes.
Temperature Life W/O Electrical Load	EIA364-17 Condition 2 or IEC 60512-9b	85°C for 96 Hours
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31 , Method III Test Condition A	10 cycles at +25°C ~ +65°C 95% RH
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (± 3) °C Black Panel Temperature 4 h Condensation at 50 (± 3) °C Black Panel Temperature

Specifications

Micro SD card Metal Engineering Specifications		
Specifications		
Current Rating	0.5A	
Operation temperature	-40°C / +85°C	
IP Rating	IP68	
Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the Specification.
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC500V±10% , test for 1 minute and the insulation resistance should be more than500MΩ
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	500 V DC/AC peak, contact-to-contact, for 1min.
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	100mΩ at 10mA Max.
Insertion and withdrawal forces	IEC60512,13b	0.1~4.0Kgf
Durability	EIA 364-09 or IEC 60512-9a	5000 cycles ,rate of 200 cycles per hour.
Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μs or longer duration when mated connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.
Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g ² /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms

Product Technical Data		
Characteristics	Standard	Description
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C, after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h, Temperature of the pressure barrel is 43°C, LAB temperature is 35°C, relative humidity of LAB is 95%~98%, test time is 48hr, after the test, check if there is rusty and oxidized phenomenon
Waterproof Test	IEC 60529	Under 1 M water for 24 Hr.
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31, Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (± 3) °C Black Panel Temperature 4 h Condensation at 50 (± 3) °C Black Panel Temperature

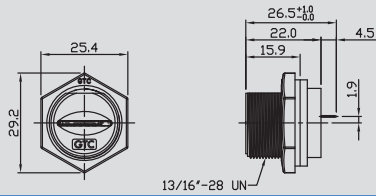
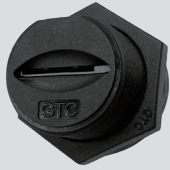
Specifications

C4 SAE panel lock Engineering Specifications		
Specifications		
Current Rating	10A	
AWG Gauge	16 AWG	
Operation temperature	-40°C / +85°C	
IP Rating	IP67	
Product Technical Data		
Characteristics	Standard	Description
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the C4 SAE Specification.
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC100V±10%, test for 1 minute and the insulation resistance should be more than100MΩ
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	300 V AC contact-to-contact, for 1min.
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	20mΩ at 10mA Max.
Durability	EIA 364-09 or IEC 60512-9a	Lock type 200 cycles Min ,rate of 200 cycles per hour.
Thermal Shock	EIA 364-32 Test Condition VIII or IEC 60512-11d	5 cycles at -40°C / +105°C, after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (Nacl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h, Temperature of the pressure barrel is 43°C, LAB temperature is 35°C, relative humidity of LAB is 95%~98%, test time is 24hr, after the test, check if there is rusty and oxidized phenomenon
Waterproof Test	IEC 60529	Under 1 M water for 30 Min.

Product Technical Data

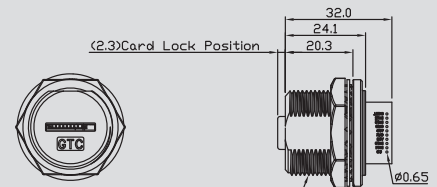
Characteristics	Standard	Description
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	80°C for 96 Hours
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31 , Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year: 8 h UV at 70 (± 3) °C Black Panel Temperature 4 h Condensation at 50 (± 3) °C Black Panel Temperature

Micro SIM Card Plastic C3 Panel Jack Screw



P/N	Product
GT1MSIM01P1	Dip Pin

Micro SD Card Metal C4 Panel Jack Screw



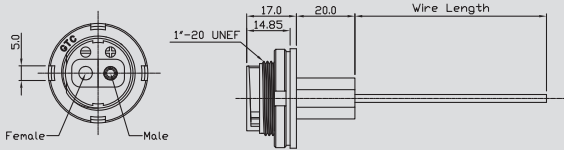
P/N	Product
GT2MSD01P1	with PCB
GT2MSD01P2	Dip Pin

Cap Metal for C4 Screw



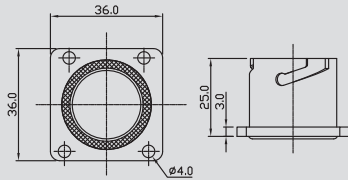
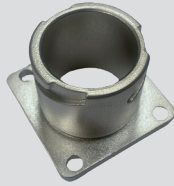
P/N	Mating Series No.
GT2CMSD0X	GT2MSD01P1
	GT2MSD01P2

SAE Connector Panel C4 Lock



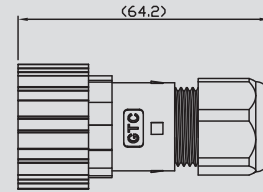
P/N	Product
GT1SAE01P1-XX(S)	with Wires

SFP Metal Panel Lock



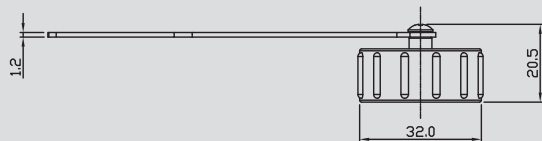
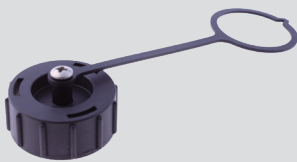
P/N	Product
GT2F1400	with Screws

SFP Metal Field Installable Cable End Lock



P/N	Product
GT2F1410	without Cable

Cap Plastic for SFP Lock Panel



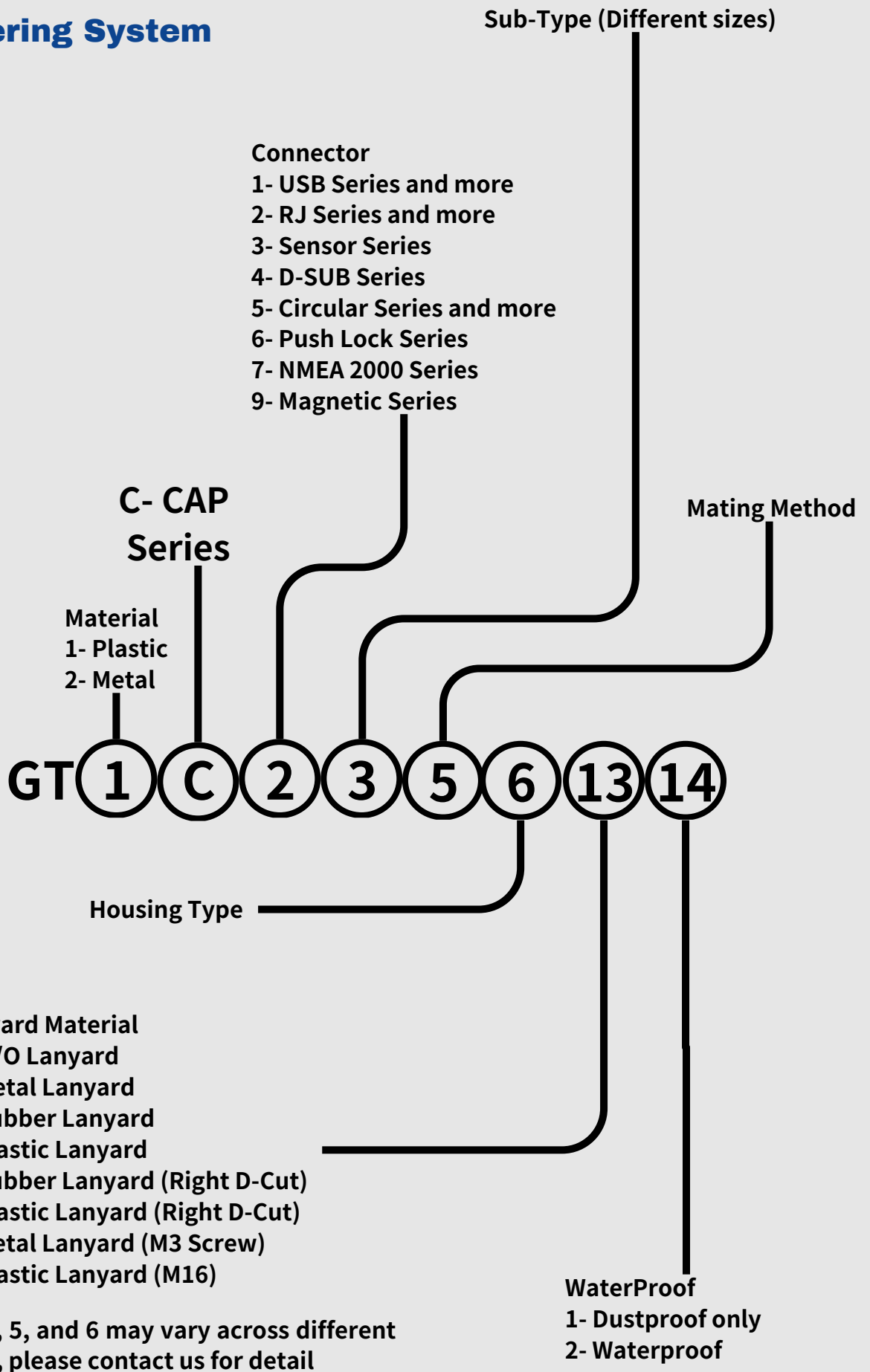
P/N	Product
GT1CF14032	GT2F1400 Series

CAP



CAP

Part Numbering System



Tips for Choosing a Cap for GTC Connectors

All GTC panel connectors are stand-alone waterproof, ensuring no water ingress into your devices even without a cap. However, it is highly recommended to use a cap to protect the connector contacts.

For a cap with a flexible lanyard, rubber is a suitable material. If durability is a priority, a plastic lanyard is a better option. For higher budgets and situations where the lanyard will be frequently and strongly pulled, a metal lanyard is ideal.

Plastic caps are compatible with plastic connectors. If the cap will not be frequently mated and unmated with the connectors, a plastic cap can also be used with metal connectors. However, avoid using metal caps with plastic connectors as this can damage the connector threads.

Cap Info Please Refer to Following List

Series	Page
Caps for USB Connectors	P.30
Caps for RJ45 Connectors	P.45
Caps for Sensor Connectors	P.85
Caps for D-Sub Connectors	P.94
Caps for Circular Connectors	P.121
Caps for Push Lock Connectors	P.130
Caps for NMEA Connectors	P.150
Caps for Magnetic Connectors	P.155
Caps for DC Connectors	P.164
Caps for Hybrid Connectors	P.183
Caps for Power Connectors	P.191
Caps for HDMI Connectors	P.199
Caps for Snap-In Connectors	P.206



www.gtcontact.com

Contact Information

Sales@gtcontact
Sales.eu@gtcontact.com
Sales.jp@gtcontact.com
Sales.cn@gtcontact.com

TEL: 886 - 2 - 7716 - 8136
FAX: 886 - 2 - 7716 - 8137

