

We focus on your connectios

CRETOP[®]



Waterproof Connectivity Solution
防水连接解决方案



宁波科瑞达电器有限公司

Ningbo Cretop Electrical Appliance Co. Ltd.

CRETOP[®]
Waterproof Connectors



About **CRETOP**®

Waterproof Connectors



Ningbo Cretop Electrical Appliance Co. Ltd. is a focus on the high-end connectors, industrial waterproof connectors, communications electronics products such as research and development, production and sales of integrated enterprise. As many as 15 series more than 2000 varieties, products widely used in outdoor LED lighting, LED display, communications, outdoor transportation, military, aerospace, new energy, Marine electronic, global positioning system (GPS) and application fields such as automotive electronics market.

The company has passed ISO: 9000 international quality management system certification, and obtain the UL, VDE, TUV, CQC certificate, has a group of high quality, professional research and development and management talent. We adopt flexible manufacturing scheduling and scientific management, constantly improve the quality of products is also in constant to reduce the production cost, is the epitome of the domestic industry, has become one of the domestic leader in the field of connector.

The company has always been adhering to the "integrity, harmony and dedication and create customer value" business philosophy, to "moment following the market development, always focus on customer needs" as the enterprise objective, adhere to the "people, high efficiency, frequently thrifty, create new" enterprise culture, with the first-class products, first-class quality, first-class service dedicated to customers from all walks of life.

Ningbo Cretop Electrical Appliance Co. Ltd. is willing to work with new and old friends at home and abroad sincere cooperation, seek common development cause.



Professional connector manufacturers



CRETOP®
Waterproof Connectors



Reasons to choose US



Mini Series

M12/M15 Series

Standard Series

Middle Series

Large Series

Stamping Series

CAC3 Series

R4/5 Series

Splitter Series

D-SUB Series

Equipment	Equipment Capacity	Testing Item
Thermal Shock Tester	-40°C-150°C From room temp.to 150°C require about 30min From low temp.to 40°C require B48about 80min	Product life span
IP66 Testing Machine	Max.flow 120 litre/min Max.Hydraulic 2kg/cm ² (20M spout)	Waterproof reliability
Vibration Testing Machine	5-100Hz.Vibration 0-8 section 10Hz-55Hz. 30SEC-50Hz-10Hz. 30SEC/120 cycle	Structure streng.the loosing and wear&tear of joint item.The connection.short.circuit,etc of assembled item.
IP67 IP68 Positive Pressue Testing	Max.pressure 160KPA Measuring Precision 0.01KPA	Waterproof reliability
Microscope	7X-45x	Precise component inspection
Projector	Magnification:10-100X Dpi:0.001mm Max.height of workpiece:123.5mm Max.weight bearing:8kg	Measuring size

Equipment	Equipment Capacity	Testing Item
Force Tester	Capacity 0-20 kgf	Test the tensile strength of product joint Test the pushing force of pin joint
Ultraviolet Test Chamber	Inner chamber size:460*300*350mm UV Tube:GL 15(watt)*2	Anti ultraviolet test
AC LOW-ohm	Resistance testing range:20mΩ-2mΩ	Precise resistance
Electricity examining machine	6500HV 1.Voltage:DC 15v 2.Testing point:128 3.Speed:128 point/0.2sec 4.Isolation:500KΩ-10MΩ 5.Connecting:100Ω-10KΩ	1.Connecting 1.1 Malposition Test 1.2 Broken circrit Test 1.3 Shout circuit Test 2.Isolation Test
Insulation Resistance and Withstanding Voltage Tester	AC:0.05-5KV 0.1mA-30mA DC:0.05-6KV 0.01mA-15mA	Product volatage durable capacity
DC Power Supply	60V 1.5A	Direct current
IC Simulator	Simulating of single chip	Single chip
2.5 image measurer	Optics magnifying rate: 0.7-4.5X Image magnifying rate:41.6-266.4X Dpi:0.001mm	Inspection of precision component
Drop Test Machine	Max.volume of testinitem:80*80*80CM(L*M*H)	Test the anti-vibration and protection of packaging and prodt
Torque Tester	0.3kgf/cm-40kgf/cm	Twisting test

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NOMENCLATURE

11 001 1 1 A - 01
 ① ② ③ ④ ⑤ ⑥

① - ② ③ ④ ⑤ ⑥

1st DIGIT - Product Series

CODE	DESCRIPTION	CODE	DESCRIPTION
11	Mini Series	18	3PIN electric connector
12	M12 Series	19	4PIN electric connector
13	M15 Series	20	RJ45
14	Standard Series	23	XLR electric connector
15	Middle Series	24	Branch electric connector
16	Large Series	25	T type electric connector
17	Stamping Contact Series	26	D-SUB

① - ② - ③ ④ ⑤ ⑥

2rd DIGIT - Poles

CODE	DESCRIPTION	CODE	DESCRIPTION
001	1 Poles	309	3Poles + 9Poles
002	2 Poles	311	3Poles + 11Poles
003	3 Poles
004	4 Poles		
005	5 Poles		
006	6 Poles		
.....		

1 2 - 3 - 4 5 6
3rd DIGIT - Type

CODE	DESCRIPTION
1	Pin, Male Connector
2	Socket, Male Connector
3	Pin, Female Connector
4	Socket, Female Connector
5	Pin, Panel Mount
6	Socket, Panel Mount
7	Pin to Pin Cable
8	Pin to Socket Cable
9	Socket to Socket Cable

1 2 3 - 4 - 5 6
4th DIGIT - Assembly Method

CODE	DESCRIPTION
1	Installable 180°
2	Molded 180°
3	Installable 90°
4	Molded 90°
5	Panel Mount

1 2 3 4 - 5 - 6
5th DIGIT - Locking Type

CODE	DESCRIPTION
A	Screw Type
B	Lock Bayonet Type
C	Push Lock Type

Illustrate 1500411A-01
Middle Series 4Poles Pin, Male Connector Installable 180° Screw Type

15 Middle Series **004** 4Poles **1** Pin, Male Connector **1** Installable 180° **A** Screw Type **- 01** Connector Sequence Code



Mini Series



M12/M15 Series



Standard Series



Middle Series



CAC3 Series

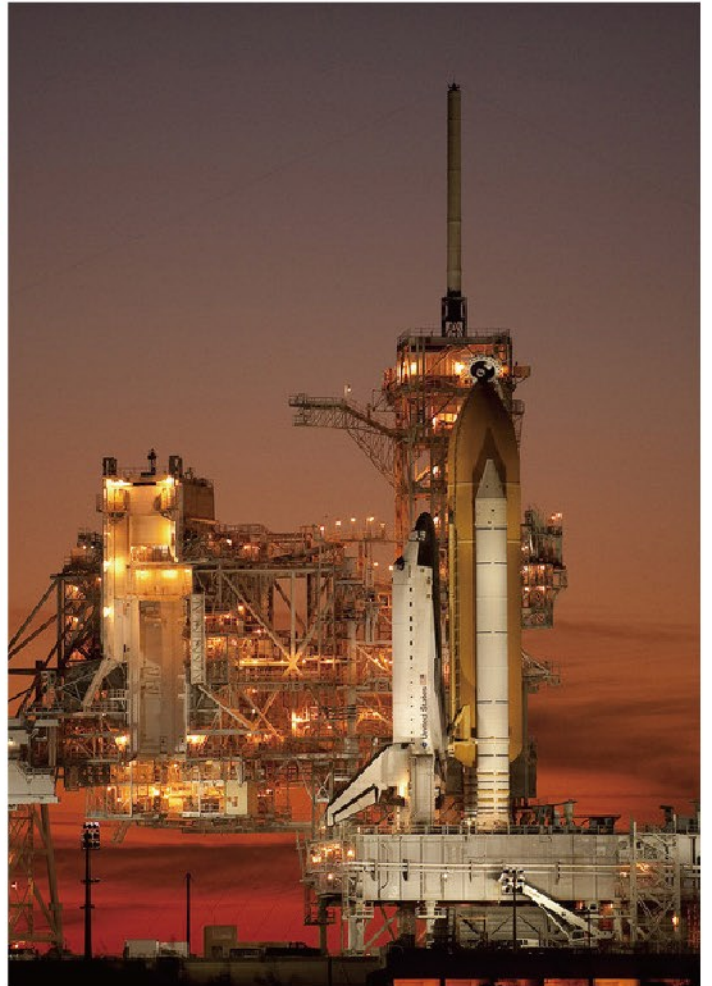


Large Series



APPLICATION SCENE

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Contents

01. Mini Series

P015-P029

02. M15 Series

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03. Standard Series

P039-P057

04. Middle Series

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05. Large Series

P076-P087

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- 7. Mini Series , Rear Panel Mount & Male PinP24
- 8. Mini Series , Male Connector & Female PinP25-P27
- 9. Mini Series , Female Connector & Male PinP28-P29



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1 Strip and prepare Cable



2 Thread Seals Nut, O-Ring, Clamp Ring and Gasket onto the cable.



3 Solder wire



4 Assemble Gasket into Clamp ring: Gasket Direction (Flat Surface to Housing)



5 Assemble Clamp Ring to Housing



6 Put O-Ring to the Clamp Ring.



7 Assemble Seals Nut and Clamp Ring.



MINI SERIES

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● Mini Series , Front Panel Mount & Female Pin

Description

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Figure

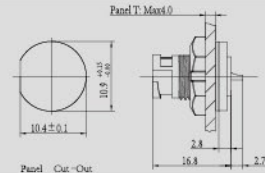
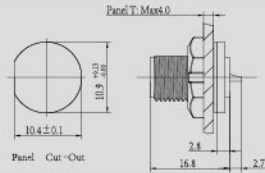
Front Panel Mount
Screw Type, Solder



Front Panel Mount
Lock Bayonet Type, Solder



Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number
2	1100265A-01	2	1100265B-01
3	1100365A-01	3	1100365B-01
4	1100465A-01	4	1100465B-01

Figure

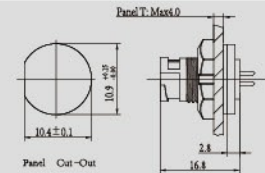
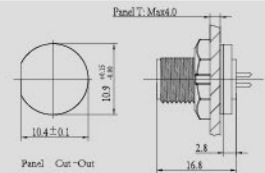
Front Panel Mount
Screw Type, PCB



Front Panel Mount
Lock Bayonet Type, PCB



Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number
2	1100265A-02	2	1100265B-02
3	1100365A-02	3	1100365B-02
4	1100465A-02	4	1100465B-02

Specifications

Number of Contacts	2	3	4
Wire Gauge	0.519mm ² (20AWG)		
Panel Thickness	Max. 4.0mm		
Environmental Protection	IP67/IP68		
Mechanical Life	500 mating cycles		
Operating Temperature	-45°C - 105°C		
Voltage Rating	50V		
Rated Current(40°C)	5A		

● Mini Series , Rear Panel Mount & Female Pin

Description

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Figure

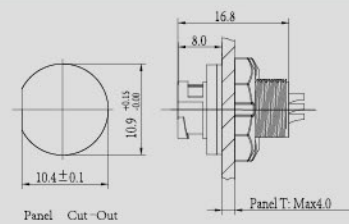
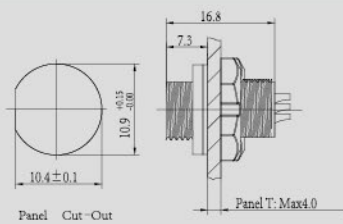
Rear Panel Mount
Screw Type, Solder



Rear Panel Mount
Lock Bayonet Type, Solder



Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number
2	1100265A-03	2	1100265B-03
3	1100365A-03	3	1100365B-03
4	1100465A-03	4	1100465B-03

Specifications

	2	3	4
Number of Contacts	2	3	4
Wire Gauge	0.519mm ² (20AWG)		
Panel Thickness	Max. 4.0mm		
Environmental Protection	IP67/IP68		
Mechanical Life	500 mating cycles		
Operating Temperature	-45°C - 105°C		
Voltage Rating	50V		
Rated Current(40°C)	5A		

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● Mini Series Male Connector & Male Pin

Description

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Figure

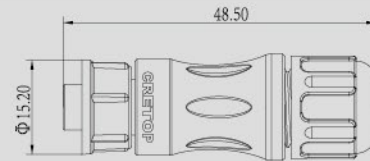
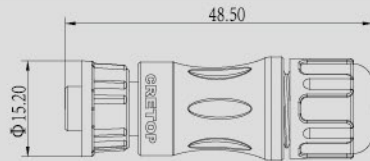
Field Installable 180°
Screw Type, Solder



Field Installable 180°
Lock Bayonet Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	3.5-6.8	1100211A-01	2	3.5-6.8	1100211B-01
3	3.5-6.8	1100311A-01	3	3.5-6.8	1100311B-01
4	3.5-6.8	1100411A-01	4	3.5-6.8	1100411B-01

Figure

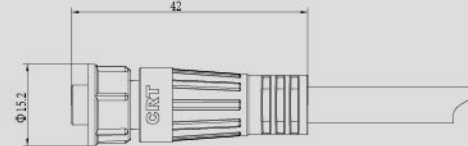
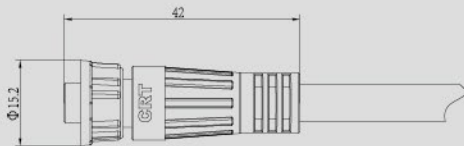
Molded, 180°
Screw Type, Solder



Molded, 180°
Lock Bayonet Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	max7.2	1100212A-01	2	max7.2	1100212B-01
3	max7.2	1100312A-01	3	max7.2	1100312B-01
4	max7.2	1100412A-01	4	max7.2	1100412B-01

Specifications

Number of Contacts	2	3	4
Wire Gauge	0.519mm ² (20AWG)		
Panel Thickness	3.5mm - 6.8mm		
Environmental Protection	IP67		
Mechanical Life	500 mating cycles		
Operating Temperature	-45°C - 80°C		
Voltage Rating	50V		
Rated Current(40°C)	5A		

● Mini Series , Male Connector & Male Pin

Description

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Figure

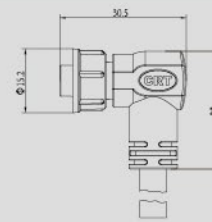
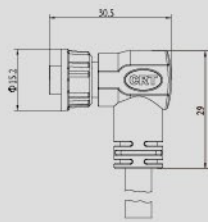
Molded, 90°
Screw Type, Solder



Molded, 90°
Lock Bayonet Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	max7.2	1100214A-01	2	max7.2	1100214B-01
3	max7.2	1100314A-01	3	max7.2	1100314B-01
4	max7.2	1100414A-01	4	max7.2	1100414B-01

Specifications

	2	3	4
Number of Contacts	2	3	4
Wire Gauge	0.519mm ² (20AWG)		
Panel Thickness	Max. 7.2mm		
Environmental Protection	IP67		
Mechanical Life	500 mating cycles		
Operating Temperature	-45°C - 80°C		
Voltage Rating	50V		
Rated Current(40°C)	5A		

MINI SERIES



● Mini Series , Female Connector & Female Pin

Description



Figure

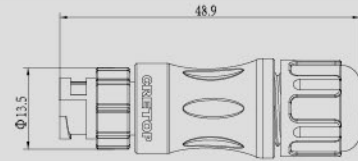
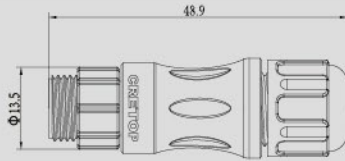
Field Installable 180°
Screw Type, Solder



Field Installable 180°
Lock Bayonet Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	3.5-6.8	1100241A-01	2	3.5-6.8	1100241B-01
3	3.5-6.8	1100341A-01	3	3.5-6.8	1100341B-01
4	3.5-6.8	1100441A-01	4	3.5-6.8	1100441B-01

Figure

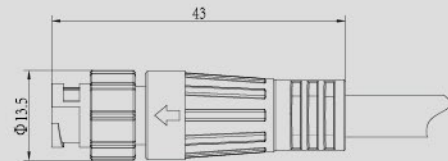
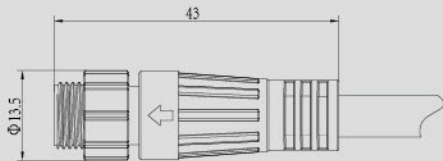
Molded, 180°
Screw Type, Solder



Molded, 180°
Lock Bayonet Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	Max. 7.2mm	1100242A-01	2	Max. 7.2mm	1100242B-01
3	Max. 7.2mm	1100342A-01	3	Max. 7.2mm	1100342B-01
4	Max. 7.2mm	1100442A-01	4	Max. 7.2mm	1100442B-01

Specifications

Number of Contacts	2	3	4
Wire Gauge	0.519mm ² (20AWG)		
Panel Thickness	Max. 7.2mm		
Environmental Protection	IP67		
Mechanical Life	500 mating cycles		
Operating Temperature	-45°C - 80°C		
Voltage Rating	50V		
Rated Current(40°C)	5A		

● Mini Series , Front Panel Mount & Male Pin

Description

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Figure

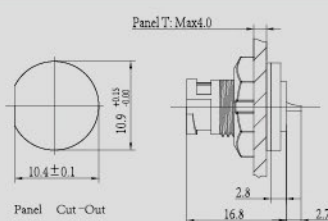
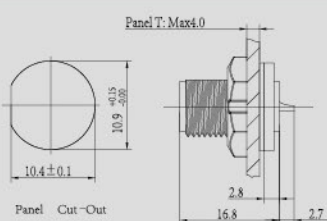
Front Panel Mount
Screw Type, Solder



Front Panel Mount
Lock Bayonet Type, Solder



Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number
2	1100255A-01	2	1100255B-01
3	1100355A-01	3	1100355B-01
4 (5A)	1100455A-01	4 (5A)	1100455B-01
4 (2A)	1100455A-02	4 (2A)	1100455B-02
5	1100555A-01	5	1100555B-01
6	1100655A-01	6	1100655B-01
2+4	1120455A-01	2+4	1120455B-01
7	1100755A-01	7	1100755B-01
8	1100855A-01	8	1100855B-01

Specifications

Number of Contacts	2	3	4	4	5	6	2+4	7	8
Wire Gauge	0.519mm ² (20AWG)				0.34mm ² (22AWG)				
Panel Thickness	Max. 4.0mm								
Environmental Protection	IP67/IP68								
Mechanical Life	500 mating cycles								
Operating Temperature	-45°C - 105°C								
Voltage Rating	110V	110V	110V	110V	50V	50V	50V	50V	50V
Rated Current(40°C)	5A	5A	5A	2A	2A	2A	5+2A	2A	2A

MINI SERIES

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● Mini Series , Front Panel Mount & Male Pin

Description

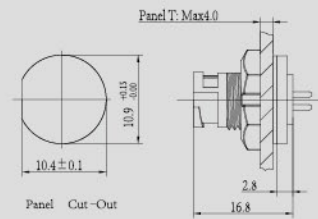
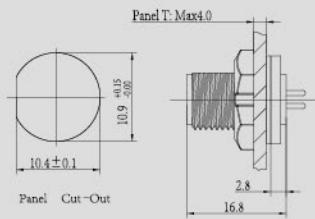
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Figure

 Front Panel Mount
Screw Type, PCB

 Front Panel Mount
Lock Bayonet Type, PCB


Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number
2	1100255A-02	2	1100255B-02
3	1100355A-02	3	1100355B-02
4 (5A)	1100455A-06	4 (5A)	1100455B-06
4 (2A)	1100455A-05	4 (2A)	1100455B-05
5	1100555A-02	5	1100555B-02
6	1100655A-02	6	1100655B-02
2+4	1120455A-02	2+4	1120455B-02
7	1100755A-02	7	1100755B-02
8	1100855A-02	8	1100855B-02

Specifications

Number of Contacts	2	3	4	4	5	6	2+4	7	8
Wire Gauge	0.519mm ² (20AWG)				0.34mm ² (22AWG)				
Panel Thickness	Max. 4.0mm								
Environmental Protection	IP67/IP68								
Mechanical Life	500 mating cycles								
Operating Temperature	-45°C - 105°C								
Voltage Rating	110V	110V	110V	110V	50V	50V	50V	50V	50V
Rated Current(40°C)	5A	5A	5A	2A	2A	2A	5+2A	2A	2A

● Mini Series , Rear Panel Mount & Male Pin

Description

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Figure

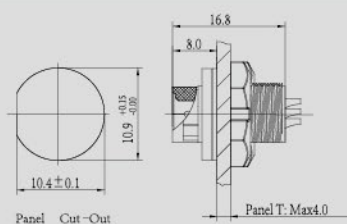
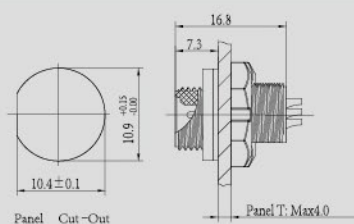
Rear Panel Mount
Screw Type, Solde



Rear Panel Mount
Lock Bayonet Type, Solder



Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number
2	1100255A-03	2	1100255B-03
3	1100355A-03	3	1100355B-03
4 (5A)	1100455A-03	4 (5A)	1100455B-03
4 (2A)	1100455A-04	4 (2A)	1100455B-04
5	1100555A-03	5	1100555B-03
6	1100655A-03	6	1100655B-03
2+4	1120455A-03	2+4	1120455B-03
7	1100755A-03	7	1100755B-03
8	1100855A-03	8	1100855B-03

Specifications

Number of Contacts	2	3	4	4	5	6	2+4	7	8
Wire Gauge	0.519mm ² (20AWG)				0.34mm ² (22AWG)				
Panel Thickness	Max. 4.0mm								
Environmental Protection	IP67/IP68								
Mechanical Life	500 mating cycles								
Operating Temperature	-45°C - 105°C								
Voltage Rating	110V	110V	110V	110V	50V	50V	50V	50V	50V
Rated Current(40°C)	5A	5A	5A	2A	2A	2A	5+2A	2A	2A

MINI SERIES

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● Mini Series , Male Connector & Female Pin

Description

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Figure

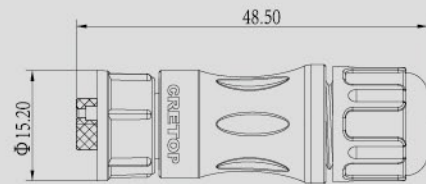
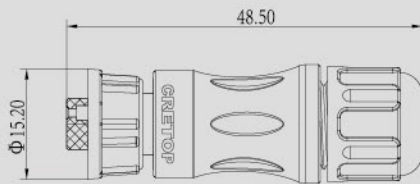
Field Installable, 180°
Screw Type, Solder



Field Installable, 180°
Lock Bayonet Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	3.5-6.8	1100221A-01	2	3.5-6.8	1100221B-01
3	3.5-6.8	1100321A-01	3	3.5-6.8	1100321B-01
4 (5A)	3.5-6.8	1100421A-01	4 (5A)	3.5-6.8	1100421B-01
4 (2A)	3.5-6.8	1100421A-02	4 (2A)	3.5-6.8	1100421B-02
5	3.5-6.8	1100521A-01	5	3.5-6.8	1100521B-01
6	3.5-6.8	1100621A-01	6	3.5-6.8	1100621B-01
2+4	3.5-6.8	1120421A-01	2+4	3.5-6.8	1120421B-01
7	3.5-6.8	1100721A-01	7	3.5-6.8	1100721B-01
8	3.5-6.8	1100821A-01	8	3.5-6.8	1100821B-01

Specifications

Number of Contacts	2	3	4	4	5	6	2+4	7	8
Wire Gauge	0.519mm ² (20AWG)				0.34mm ² (22AWG)				
Panel Thickness	3.5mm - 6.8mm								
Environmental Protection	IP67/IP68								
Mechanical Life	500 mating cycles								
Operating Temperature	-45°C - 105°C								
Voltage Rating	110V	110V	110V	110V	50V	50V	50V	50V	50V
Rated Current(40°C)	5A	5A	5A	2A	2A	2A	5+2A	2A	2A

● Mini Series , Male Connector & Female Pin

Description

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Figure

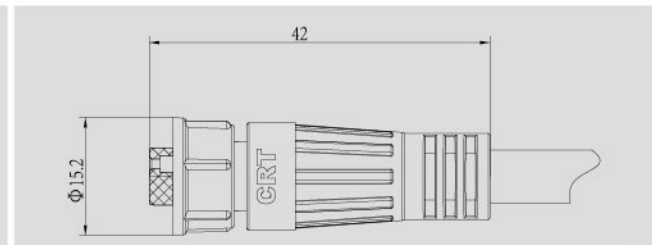
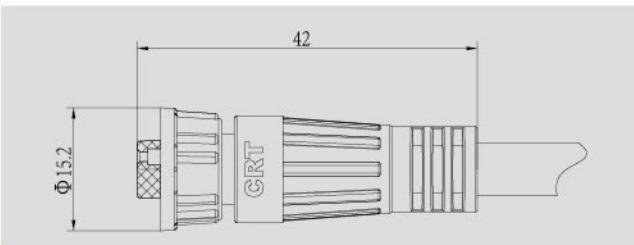
Molded, 180°
Screw Type, Solder



Molded, 180°
Lock Bayonet Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	max7.2	1100222A-01	2	max7.2	1100222B-01
3	max7.2	1100322A-01	3	max7.2	1100322B-01
4 (5A)	max7.2	1100422A-01	4 (5A)	max7.2	1100422B-01
4 (2A)	max7.2	1100422A-02	4 (2A)	max7.2	1100422B-02
5	max7.2	1100522A-01	5	max7.2	1100522B-01
6	max7.2	1100622A-01	6	max7.2	1100622B-01
2+4	max7.2	1120422A-01	2+4	max7.2	1120422B-01
7	max7.2	1100722A-01	7	max7.2	1100722B-01
8	max7.2	1100822A-01	8	max7.2	1100822B-01

Specifications

Number of Contacts	2	3	4	4	5	6	2+4	7	8
Wire Gauge	0.519mm ² (20AWG)				0.34mm ² (22AWG)				
Panel Thickness	Max. 7.2mm								
Environmental Protection	IP67								
Mechanical Life	500 mating cycles								
Operating Temperature	-45°C - 80°C								
Voltage Rating	110V	110V	110V	110V	50V	50V	50V	50V	50V
Rated Current(40°C)	5A	5A	5A	2A	2A	2A	5+2A	2A	2A

MINI SERIES



● Mini Series , Male Connector & Female Pin

Description



Figure

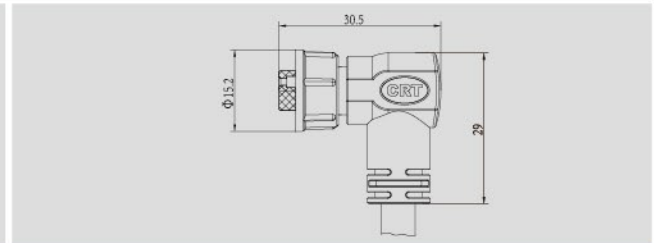
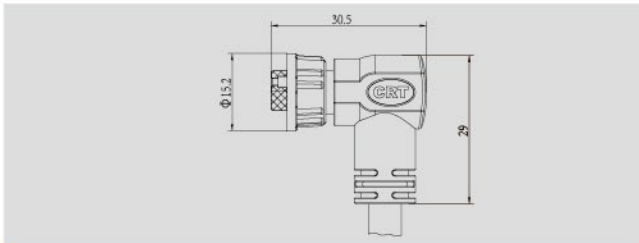
Molded, 90°
Screw Type, Solder



Molded, 90°
Lock Bayonet Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	max7.2	1100224A-01	2	max7.2	1100224B-01
3	max7.2	1100324A-01	3	max7.2	1100324B-01
4 (5A)	max7.2	1100424A-01	4 (5A)	max7.2	1100424B-01
4 (2A)	max7.2	1100424A-02	4 (2A)	max7.2	1100424B-02
5	max7.2	1100524A-01	5	max7.2	1100524B-01
6	max7.2	1100624A-01	6	max7.2	1100624B-01
2+4	max7.2	1120424A-01	2+4	max7.2	1120424B-01
7	max7.2	1100724A-01	7	max7.2	1100724B-01
8	max7.2	1100824A-01	8	max7.2	1100824B-01

Specifications

Number of Contacts	2	3	4	4	5	6	2+4	7	8
Wire Gauge	0.519mm ² (20AWG)				0.34mm ² (22AWG)				
Panel Thickness	Max. 7.2mm								
Environmental Protection	IP67								
Mechanical Life	500 mating cycles								
Operating Temperature	-45°C - 80°C								
Voltage Rating	110V	110V	110V	110V	50V	50V	50V	50V	50V
Rated Current(40°C)	5A	5A	5A	2A	2A	2A	5+2A	2A	2A

● Mini Series , Female Connector & Male Pin

Description

CRETOP®

Figure

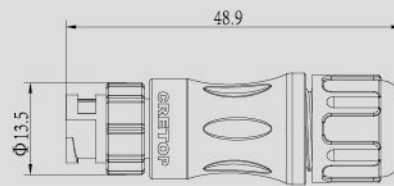
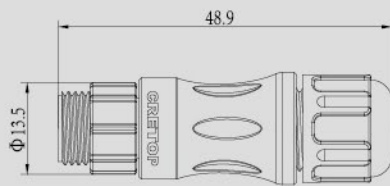
Field Installable, 180° Screw Type, Solder



Field Installable, 180° Lock Bayonet Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	3.5-6.8	1100231A-01	2	3.5-6.8	1100231B-01
3	3.5-6.8	1100331A-01	3	3.5-6.8	1100331B-01
4 (5A)	3.5-6.8	1100431A-01	4 (5A)	3.5-6.8	1100431B-01
4 (2A)	3.5-6.8	1100431A-02	4 (2A)	3.5-6.8	1100431B-02
5	3.5-6.8	1100531A-01	5	3.5-6.8	1100531B-01
6	3.5-6.8	1100631A-01	6	3.5-6.8	1100631B-01
2+4	3.5-6.8	1120431A-01	2+4	3.5-6.8	1120431B-01
7	3.5-6.8	1100731A-01	7	3.5-6.8	1100731B-01
8	3.5-6.8	1100831A-01	8	3.5-6.8	1100831B-01

Specifications

Number of Contacts	2	3	4	4	5	6	2+4	7	8
Wire Gauge	0.519mm ² (20AWG)				0.34mm ² (22AWG)				
Panel Thickness	3.5mm - 6.8mm								
Environmental Protection	IP67/IP68								
Mechanical Life	500 mating cycles								
Operating Temperature	-45°C - 105°C								
Voltage Rating	110V	110V	110V	110V	50V	50V	50V	50V	50V
Rated Current(40°C)	5A	5A	5A	2A	2A	2A	5+2A	2A	2A

MINI SERIES

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● Mini Series , Female Connector & Male Pin

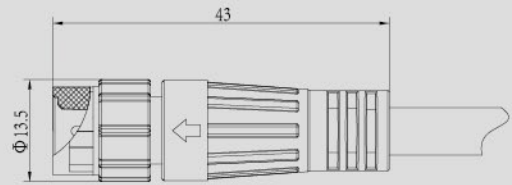
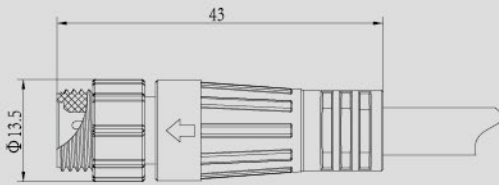
Description

CRETOP®

Figure



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	Max. 7.2	1100232A-01	2	Max. 7.2	1100232B-01
3	Max. 7.2	1100332A-01	3	Max. 7.2	1100332B-01
4 (5A)	Max. 7.2	1100432A-01	4 (5A)	Max. 7.2	1100432B-01
4 (2A)	Max. 7.2	1100432A-02	4 (2A)	Max. 7.2	1100432B-02
5	Max. 7.2	1100532A-01	5	Max. 7.2	1100532B-01
6	Max. 7.2	1100632A-01	6	Max. 7.2	1100632B-01
2+4	Max. 7.2	1120432A-01	2+4	Max. 7.2	1120432B-01
7	Max. 7.2	1100732A-01	7	Max. 7.2	1100732B-01
8	Max. 7.2	1100832A-01	8	Max. 7.2	1100832B-01

Specifications

Number of Contacts	2	3	4	4	5	6	2+4	7	8
Wire Gauge	0.519mm ² (20AWG)				0.34mm ² (22AWG)				
Panel Thickness	Max. 7.2mm								
Environmental Protection	IP67								
Mechanical Life	500 mating cycles								
Operating Temperature	-45°C - 80°C								
Voltage Rating	110V	110V	110V	110V	50V	50V	50V	50V	50V
Rated Current(40°C)	5A	5A	5A	2A	2A	2A	5+2A	2A	2A

M12/M15 Series

1.M12 Series.....	P31-P32
2.M15 Series.....	P33-P38



M15 SERIES

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M15 Distributor Series

Description

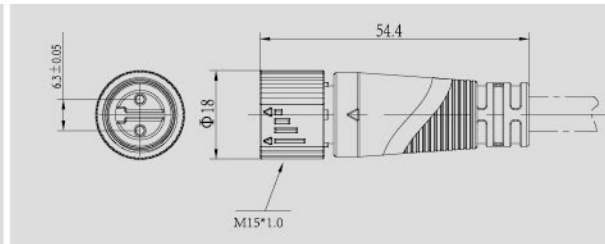
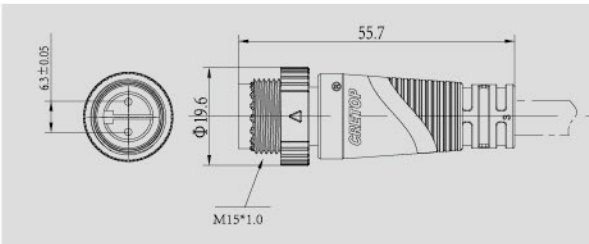
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Figure

 Molded With Cable 180°
Screw Type Male Connector

 Molded With Cable 180°
Screw Type Female Connector


Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number
2	1300212A-01	2	1300242A-01
3	1300312A-01	3	1300342A-01

Specifications

Number of Contacts	2	3
Wire Gauge	1.0mm ² /18AWG	
Cable Range	3.5mm - 8.0mm	
Environmental Protection	IP68	
Mechanical Life	> 500 mating cycles	
Operating Temperature	-45°C - 105°C	
Voltage Rating	500V	
Rated Current(40°C)	10A	
Contact	Brass, Ni Plated	
Material Of Housing	PA	

M15 Series

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● M15 Distributor Series

Description

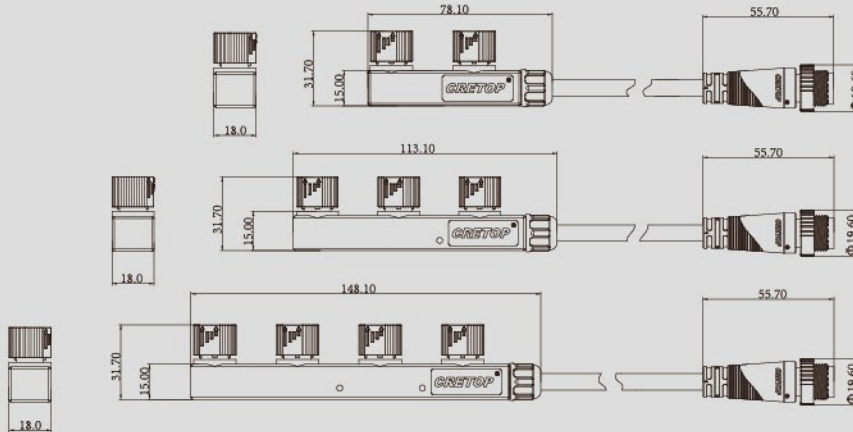
CRETOP®

Figure

Screw Lock



Drawing



Part-No.

Contacts	Ways	Connection Type	Part-Number	Contacts	Ways	Connection Type	Part-Number
2	2	Series	1310211A-01	2	2	Parallel	1310211A-02
	3		1310311A-01		3		1310311A-02
	4		1310411A-01		4		1310411A-02
	5		1310511A-01		5		1310511A-02
	6		1310611A-01		6		1310611A-02
	7		1310711A-01		7		1310711A-02

Specifications

Number of Contacts	2
Wire Gauge	1.0mm ² /18AWG
Cable Range	3.5mm - 8.0mm
Environmental Protection	IP68
Mechanical Life	> 500 mating cycles
Operating Temperature	-45°C - 105°C
Voltage Rating	500V
Rated Current(40°C)	10A
Contact	Brass, Ni Plated
Material Of Housing	PA

M15 Series

Description

CRETOP®

Figure

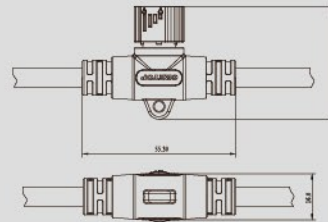
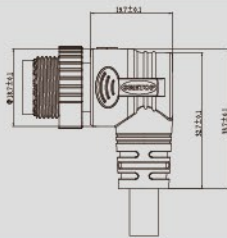
Molded with Cable, 90° Screw Type, Male Connector



Molded with Cable, Screw Type T Adaptor



Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number
2	1300214A-01	2	1300277A-01
3	1300314A-01	3	1300377A-01

Specifications

Number of Contacts	2	3
Wire Gauge	0.823mm ² (18AWG)	
Environmental Protection	IP68	
Mechanical Life	500 mating cycles	
Operating Temperature	-45°C - 105°C	
Voltage Rating	500V	
Rated Current(40°C)	10A	

1. Standard Series , Assembly Instruction	P40
2. Standard Series , Panel Mount & Female Pin.....	P41-P43
3. Standard Series , Male Connector & Male Pin.....	P44-P46
4. Standard Series , Female Connector & Female Pin.....	P47-P48
5. Standard Series , Panel Mount & Male Pin	P49-P51
6. Standard Series , Male Connector & Female Pin	P52-P54
7. Standard Series , Female Connector & Male Pin	P55-P56
8. Standard Series , Distributor.....	P57



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1 Strip and prepare Cable.



2 Thread Seals Nut, Seals Ring, Clamp Ring and Gasket onto the cable.



3 Solder wire



4 Assemble Gasket into Clamp ring:
Gasket Direction
(Flat Surface to Housing)



5 Assemble Clamp Ring to Housing



6 Put Seals Ring to the end of Clamp Ring.




7 Assemble Seals Nut and Clamp Ring.



STANDARD SERIES

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● Standard Series , Panel Mount & Female Pin

Description		Figure		CRETOP®			
Panel Front Mount Screw Type, Solder		Panel Front Mount Lock Bayonet Type, Solder		Panel Front Mount Push Lock Type, Solder			
Drawing							
							
Part-No.							
Contacts	Part-Number	Contacts	Part-Number	Contacts	Part-Number		
2	1400265A-01 	2	1400265B-01 	2	1400265C-01 		
3	1400365A-01 	3	1400365B-01 	3	1400365C-01 		
4	1400465A-01 	4	1400465B-01 	4	1400465C-01 		
5	1400565A-01 	5	1400565B-01 	5	1400565C-01 		
6	1400665A-01 	6	1400665B-01 	6	1400665C-01 		
2+4	1420465A-01	2+4	1420465B-01	2+4	1420465C-01		
2+6	1420665A-01	2+6	1420665B-01	2+6	1420665C-01		
Specifications							
Number of Contacts	2	3	4	5	6	2+4	2+6
Wire Gauge	0.823mm ² (18AWG)			0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C 0.34mm ² (22AWG)*4C	0.519mm ² (20AWG)*2C 0.34mm ² (22AWG)*6C
Panel Thickness	Max. 4.0mm			Max. 4.0mm		Max. 3.5mm	
Environmental Protection	IP68			IP67		IP67	
Mechanical Life	500 mating cycles						
Operating Temperature	-45°C - 105°C						
Voltage Rating	300V	300V	125V	60V	60V	60V	30V
Rated Current(40°C)	10A	10A	10A	5A	5A	10+2A	5+2A

● Standard Series , Panel Mount & Female Pin

Description

CRETOP®

Figure

Panel Front Mount
Screw Type, PCB



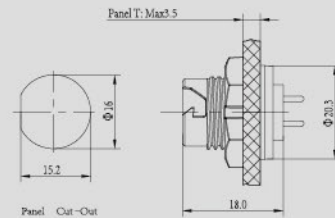
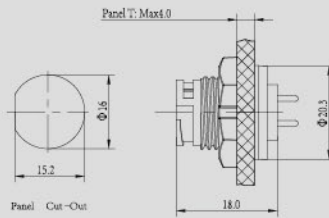
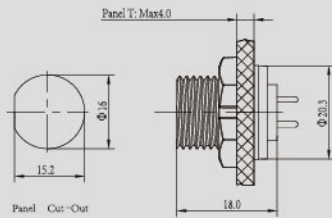
Panel Front Mount
Lock Bayonet Type, PCB



Panel Front Mount
Push Lock Type, PCB



Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number	Contacts	Part-Number
2	1400265A-02	2	1400265B-02	2	1400265C-02
3	1400365A-02	3	1400365B-02	3	1400365C-02
4	1400465A-02	4	1400465B-02	4	1400465C-02
5	1400565A-02	5	1400565B-02	5	1400565C-02
6	1400665A-02	6	1400665B-02	6	1400665C-02
2+4	1420465A-02	2+4	1420465B-02	2+4	1420465C-02
2+6	1420665A-02	2+6	1420665B-02	2+6	1420665C-02

Specifications

Number of Contacts	2	3	4	5	6	2+4	2+6
Wire Gauge	0.823mm ² (18AWG)			0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C 0.34mm ² (22AWG)*4C	0.519mm ² (20AWG)*2C 0.34mm ² (22AWG)*6C
Panel Thickness	Max. 4.0mm			Max. 4.0mm		Max. 3.5mm	
Environmental Protection	IP68			IP67		IP67	
Mechanical Life	500 mating cycles						
Operating Temperature	-45°C - 105°C						
Voltage Rating	300V	300V	125V	60V	60V	60V	30V
Rated Current(40°C)	10A	10A	10A	5A	5A	10+2A	5+2A

STANDARD SERIES

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● Standard Series , Panel Mount & Female Pin

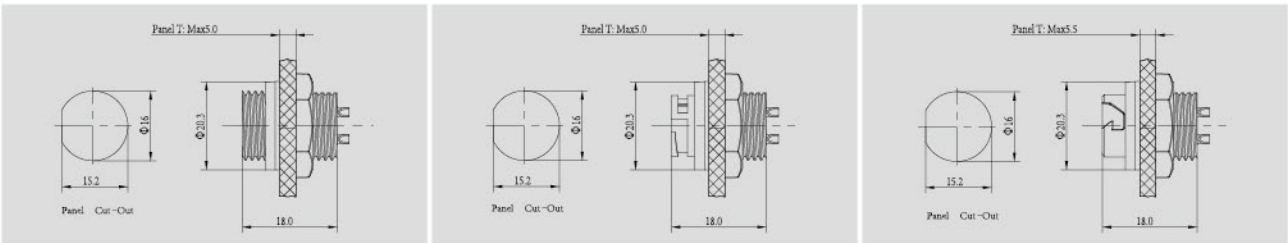
Description

CRETOP®

Figure

Panel Rear Mount
Screw Type, SolderPanel Rear Mount
Lock Bayonet Type, SolderPanel Rear Mount
Push Lock Type, Solder

Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number	Contacts	Part-Number
2	1400265A-03	2	1400265B-03	2	1400265C-03
3	1400365A-03	3	1400365B-03	3	1400365C-03
4	1400465A-03	4	1400465B-03	4	1400465C-03
5	1400565A-03	5	1400565B-03	5	1400565C-03
6	1400665A-03	6	1400665B-03	6	1400665C-03
2+4	1420465A-03	2+4	1420465B-03	2+4	1420465C-03
2+6	1420665A-03	2+6	1420665B-03	2+6	1420665C-03

Specifications

Number of Contacts	2	3	4	5	6	2+4	2+6
Wire Gauge	0.823mm ² (18AWG)			0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C 0.34mm ² (22AWG)*4C	0.519mm ² (20AWG)*2C 0.34mm ² (22AWG)*6C
Panel Thickness	Max. 5.0mm			Max. 5.0mm		Max. 5.5mm	
Environmental Protection	IP68			IP67		IP67	
Mechanical Life	500 mating cycles						
Operating Temperature	-45°C - 105°C						
Voltage Rating	300V	300V	125V	60V	60V	60V	30V
Rated Current(40°C)	10A	10A	10A	5A	5A	10+2A	5+2A

● Standard Series , Male Connector & Male Pin

Description

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Figure

Field Installable, 180° Screw Type, Solder



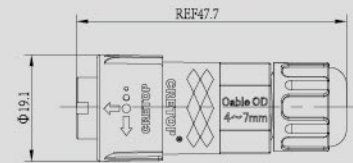
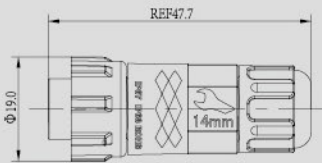
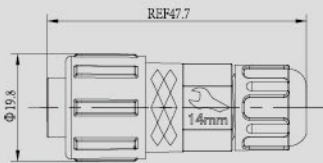
Field Installable, 180° Lock Bayonet Type, Solder



Field Installable, 180° Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	3.5-6.8	1400211A-01 _C	2	3.5-6.8	1400211B-01 _C	2	3.5-6.8	1400211C-01 _C
3	3.5-6.8	1400311A-01 _C	3	3.5-6.8	1400311B-01 _C	3	3.5-6.8	1400311C-01 _C
4	3.5-6.8	1400411A-01 _C	4	3.5-6.8	1400411B-01 _C	4	3.5-6.8	1400411C-01 _C
5	3.5-6.8	1400511A-01 _C	5	3.5-6.8	1400511B-01 _C	5	3.5-6.8	1400511C-01 _C
6	3.5-6.8	1400611A-01 _C	6	3.5-6.8	1400611B-01 _C	6	3.5-6.8	1400611C-01 _C
2+4	3.5-6.8	1420411A-01	2+4	3.5-6.8	1420411B-01	2+4	3.5-6.8	1420411C-01
2+6	3.5-6.8	1420611A-01	2+6	3.5-6.8	1420611B-01	2+6	3.5-6.8	1420611C-01

Specifications

Number of Contacts	2	3	4	5	6	2+4	2+6
Wire Gauge	0.823mm ² (18AWG)			0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C 0.34mm ² (22AWG)*4C	0.519mm ² (20AWG)*2C 0.34mm ² (22AWG)*6C
Panel Thickness	3.5mm - 6.8mm						
Environmental Protection	IP68			IP67			IP67
Mechanical Life	500 mating cycles						
Operating Temperature	-45°C - 105°C						
Voltage Rating	300V	300V	125V	60V	60V	60V	30V
Rated Current(40°C)	10A	10A	10A	5A	5A	10+2A	5+2A

STANDARD SERIES

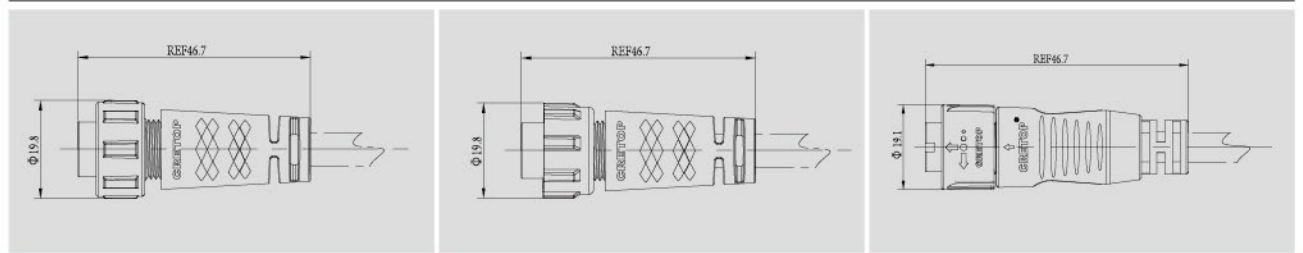
● Standard Series , Male Connector & Male Pin

Description CRETOP®

Figure



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	Max. 9.0mm	1400212A-01	2	Max. 9.0mm	1400212B-01	2	Max. 9.0mm	1400212C-01
3	Max. 9.0mm	1400312A-01	3	Max. 9.0mm	1400312B-01	3	Max. 9.0mm	1400312C-01
4	Max. 9.0mm	1400412A-01	4	Max. 9.0mm	1400412B-01	4	Max. 9.0mm	1400412C-01
5	Max. 9.0mm	1400512A-01	5	Max. 9.0mm	1400512B-01	5	Max. 9.0mm	1400512C-01
6	Max. 9.0mm	1400612A-01	6	Max. 9.0mm	1400612B-01	6	Max. 9.0mm	1400612C-01
2+4	Max. 9.0mm	1420412A-01	2+4	Max. 9.0mm	1420412B-01	2+4	Max. 9.0mm	1420412C-01
2+6	Max. 9.0mm	1420612A-01	2+6	Max. 9.0mm	1420612B-01	2+6	Max. 9.0mm	1420612C-01

Specifications

Number of Contacts	2	3	4	5	6	2+4	2+6
Wire Gauge	0.823mm ² (18AWG)			0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C 0.34mm ² (22AWG)*4C	0.519mm ² (20AWG)*2C 0.34mm ² (22AWG)*6C
Panel Thickness	Max. 9.0mm						
Environmental Protection	IP68			IP67		IP67	
Mechanical Life	500 mating cycles						
Operating Temperature	-40°C - 80°C						
Voltage Rating	300V	300V	125V	60V	60V	60V	30V
Rated Current(40°C)	10A	10A	10A	5A	5A	10+2A	5+2A

● Standard Series , Male Connector & Male Pin

Description CRETOP®

Figure

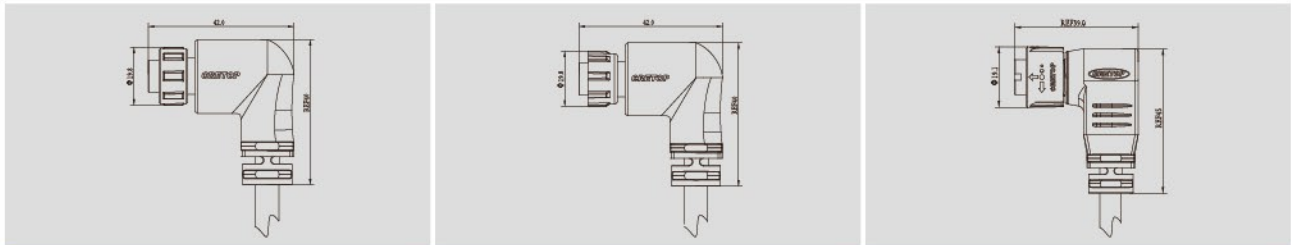


Molded With Cable, 90° Screw Type, Solder

Molded With Cable, 90° Lock Bayonet Type, Solder

Molded With Cable, 90° Push Lock Type, Solder

Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	Max. 9.0mm	1400214A-01	2	Max. 9.0mm	1400214B-01	2	Max. 9.0mm	1400214C-01
3	Max. 9.0mm	1400314A-01	3	Max. 9.0mm	1400314B-01	3	Max. 9.0mm	1400314C-01
4	Max. 9.0mm	1400414A-01	4	Max. 9.0mm	1400414B-01	4	Max. 9.0mm	1400414C-01
5	Max. 9.0mm	1400514A-01	5	Max. 9.0mm	1400514B-01	5	Max. 9.0mm	1400514C-01
6	Max. 9.0mm	1400614A-01	6	Max. 9.0mm	1400614B-01	6	Max. 9.0mm	1400614C-01
2+4	Max. 9.0mm	1420414A-01	2+4	Max. 9.0mm	1420414B-01	2+4	Max. 9.0mm	1420414C-01
2+6	Max. 9.0mm	1420614A-01	2+6	Max. 9.0mm	1420614B-01	2+6	Max. 9.0mm	1420614C-01

Specifications

Number of Contacts	2	3	4	5	6	2+4	2+6
Wire Gauge	0.823mm ² (18AWG)			0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C 0.34mm ² (22AWG)*4C	0.519mm ² (20AWG)*2C 0.34mm ² (22AWG)*6C
Panel Thickness	Max. 9.0mm						
Environmental Protection	IP68			IP67			IP67
Mechanical Life	500 mating cycles						
Operating Temperature	-40°C - 80°C						
Voltage Rating	300V	300V	125V	60V	60V	60V	30V
Rated Current(40°C)	10A	10A	10A	5A	5A	10+2A	5+2A

STANDARD SERIES



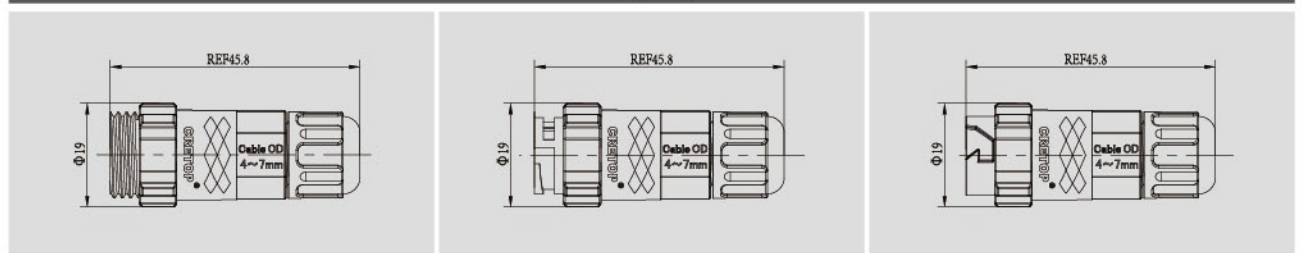
● Standard Series , Female Connector & Female Pin

Description CRETOP®

Figure



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	3.5-6.8	1400241A-01	2	3.5-6.8	1400241B-01	2	3.5-6.8	1400241C-01
3	3.5-6.8	1400341A-01	3	3.5-6.8	1400341B-01	3	3.5-6.8	1400341C-01
4	3.5-6.8	1400441A-01	4	3.5-6.8	1400441B-01	4	3.5-6.8	1400441C-01
5	3.5-6.8	1400541A-01	5	3.5-6.8	1400541B-01	5	3.5-6.8	1400541C-01
6	3.5-6.8	1400641A-01	6	3.5-6.8	1400641B-01	6	3.5-6.8	1400641C-01
2+4	3.5-6.8	1420441A-01	2+4	3.5-6.8	1420441B-01	2+4	3.5-6.8	1420441C-01
2+6	3.5-6.8	1420641A-01	2+6	3.5-6.8	1420641B-01	2+6	3.5-6.8	1420641C-01

Specifications

Number of Contacts	2	3	4	5	6	2+4	2+6
Wire Gauge	0.823mm ² (18AWG)			0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C 0.34mm ² (22AWG)*4C	0.519mm ² (20AWG)*2C 0.34mm ² (22AWG)*6C
Panel Thickness	3.5mm - 6.8mm						
Environmental Protection	IP68			IP67			IP67
Mechanical Life	500 mating cycles						
Operating Temperature	-45°C - 105°C						
Voltage Rating	300V	300V	125V	60V	60V	60V	30V
Rated Current(40°C)	10A	10A	10A	5A	5A	10+2A	5+2A

● Standard Series , Female Connector & Female Pin

Description

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Figure

Molded With Cable, 180° Screw Type, Solder



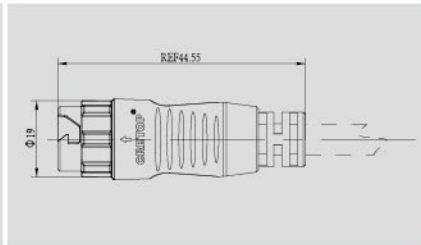
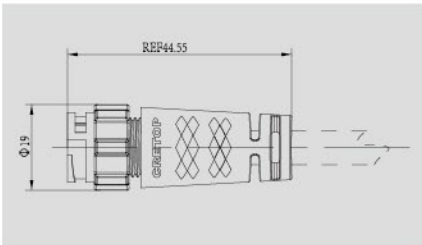
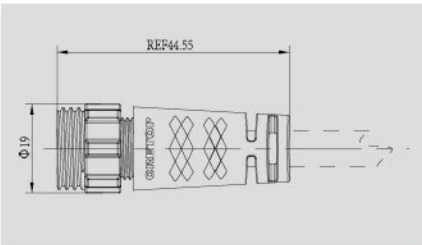
Molded With Cable, 180° Lock Bayonet Type, Solder



Molded With Cable, 180° Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	Max. 9.0mm	1400242A-01	2	Max. 9.0mm	1400242B-01	2	Max. 9.0mm	1400242C-01
3	Max. 9.0mm	1400342A-01	3	Max. 9.0mm	1400342B-01	3	Max. 9.0mm	1400342C-01
4	Max. 9.0mm	1400442A-01	4	Max. 9.0mm	1400442B-01	4	Max. 9.0mm	1400442C-01
5	Max. 9.0mm	1400542A-01	5	Max. 9.0mm	1400542B-01	5	Max. 9.0mm	1400542C-01
6	Max. 9.0mm	1400642A-01	6	Max. 9.0mm	1400642B-01	6	Max. 9.0mm	1400642C-01
2+4	Max. 9.0mm	1420442A-01	2+4	Max. 9.0mm	1420442B-01	2+4	Max. 9.0mm	1420442C-01
2+6	Max. 9.0mm	1420642A-01	2+6	Max. 9.0mm	1420642B-01	2+6	Max. 9.0mm	1420642C-01

Specifications

Number of Contacts	2	3	4	5	6	2+4	2+6
Wire Gauge	0.823mm ² (18AWG)			0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C 0.34mm ² (22AWG)*4C	0.519mm ² (20AWG)*2C 0.34mm ² (22AWG)*6C
Panel Thickness	Max. 9.0mm						
Environmental Protection	IP68			IP67		IP67	
Mechanical Life	500 mating cycles						
Operating Temperature	-40°C - 80°C						
Voltage Rating	300V	300V	125V	60V	60V	60V	30V
Rated Current(40°C)	10A	10A	10A	5A	5A	10+2A	5+2A

STANDARD SERIES

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● Standard Series , Panel Mount & Male Pin

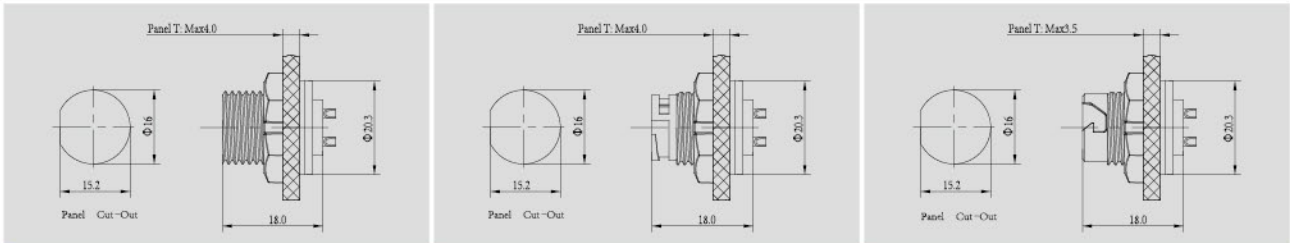
Description

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Figure

Panel Front Mount
Screw Type, SolderPanel Front Mount
Lock Bayonet Type, SolderPanel Front Mount
Push Lock Type, Solder

Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number	Contacts	Part-Number
2	1400255A-01	2	1400255B-01	2	1400255C-01
3	1400355A-01	3	1400355B-01	3	1400355C-01
4	1400455A-01	4	1400455B-01	4	1400455C-01
5	1400555A-01	5	1400555B-01	5	1400555C-01
6	1400655A-01	6	1400655B-01	6	1400655C-01
7	1400755A-01	7	1400755B-01	7	1400755C-01
2+4	1420455A-01	2+4	1420455B-01	2+4	1420455C-01
3+4	1430455A-01	3+4	1430455B-01	3+4	1430455C-01
8	1400855A-01	8	1400855B-01	8	1400855C-01
10	1401055A-01	10	1401055B-01	10	1401055C-01
12	1401255A-01	12	1401255B-01	12	1401255C-01

Specifications

Number of Contacts	2	3	4	5	6	2+4	3+4	7	8	10	12	
Wire Gauge	0.823mm ² (18AWG)			0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C/3C 0.519mm ² (20AWG)*4C		0.519mm ² (20AWG)		0.34mm ² (22AWG)		
Panel Thickness	Max. 4.0mm				Max. 4.0mm				Max. 3.5mm			
Environmental Protection	IP68				IP67				IP67			
Mechanical Life	500 mating cycles											
Operating Temperature	-45°C - 105°C											
Voltage Rating	300V	300V	125V	60V	60V	60V	60V	60V	60V	30V	30V	
Rated Current(40°C)	10A	10A	10A	5A	5A	10+5A	10+2A	5A	5A	2A	2A	

● Standard Series , Panel Mount & Male Pin

Description

CRETOP®

Figure

Panel Front Mount
Screw Type, PCB



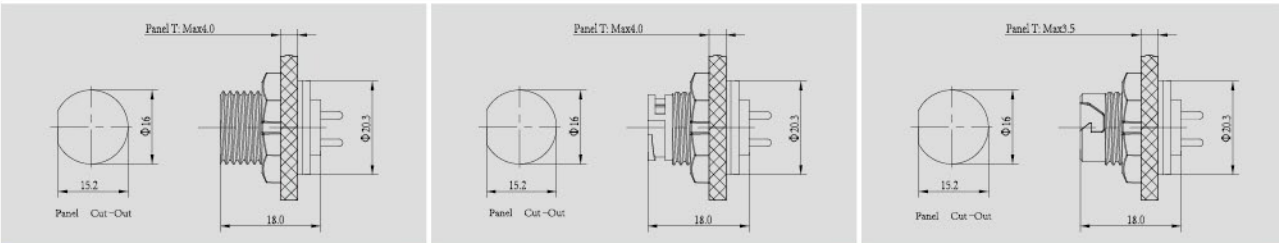
Panel Front Mount
Lock Bayonet Type, PCB



Panel Front Mount
Push Lock Type, PCB



Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number	Contacts	Part-Number
2	1400255A-02	2	1400255B-02	2	1400255C-02
3	1400355A-02	3	1400355B-02	3	1400355C-02
4	1400455A-02	4	1400455B-02	4	1400455C-02
5	1400555A-02	5	1400555B-02	5	1400555C-02
6	1400655A-02	6	1400655B-02	6	1400655C-02
7	1400755A-02	7	1400755B-02	7	1400755C-02
2+4	1420455A-02	2+4	1420455B-02	2+4	1420455C-02
3+4	1430455A-02	3+4	1430455B-02	3+4	1430455C-02
8	1400855A-02	8	1400855B-02	8	1400855C-02
10	1401055A-02	10	1401055B-02	10	1401055C-02
12	1401255A-02	12	1401255B-02	12	1401255C-02

Specifications

Number of Contacts	2	3	4	5	6	2+4	3+4	7	8	10	12
Wire Gauge	0.823mm ² (18AWG)			0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C/3C 0.519mm ² (20AWG)*4C		0.519mm ² (20AWG)		0.34mm ² (22AWG)	
Panel Thickness	Max. 4.0mm					Max. 4.0mm			Max. 3.5mm		
Environmental Protection	IP68					IP67			IP67		
Mechanical Life	500 mating cycles										
Operating Temperature	-45°C - 105°C										
Voltage Rating	300V	300V	125V	60V	60V	60V	60V	60V	60V	30V	30V
Rated Current(40°C)	10A	10A	10A	5A	5A	10+5A	10+2A	5A	5A	2A	2A

STANDARD SERIES

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● Standard Series , Panel Mount & Male Pin

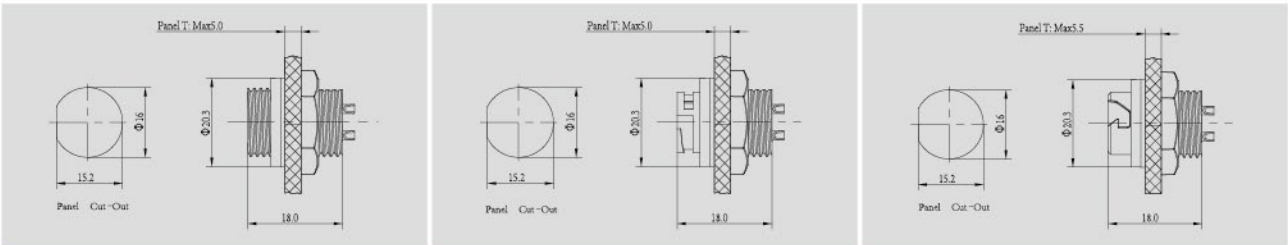
Description

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Figure

Panel Rear Mount
Screw Type, SolderPanel Rear Mount
Lock Bayonet Type, SolderPanel Rear Mount
Push Lock Type, Solder

Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number	Contacts	Part-Number
2	1400255A-03	2	1400255B-03	2	1400255C-03
3	1400355A-03	3	1400355B-03	3	1400355C-03
4	1400455A-03	4	1400455B-03	4	1400455C-03
5	1400555A-03	5	1400555B-03	5	1400555C-03
6	1400655A-03	6	1400655B-03	6	1400655C-03
7	1400755A-03	7	1400755B-03	7	1400755C-03
2+4	1420455A-03	2+4	1420455B-03	2+4	1420455C-03
3+4	1430455A-03	3+4	1430455B-03	3+4	1430455C-03
8	1400855A-03	8	1400855B-03	8	1400855C-03
10	1401055A-03	10	1401055B-03	10	1401055C-03
12	1401255A-03	12	1401255B-03	12	1401255C-03

Specifications

Number of Contacts	2	3	4	5	6	2+4	3+4	7	8	10	12
Wire Gauge	0.823mm ² (18AWG)			0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C/3C 0.519mm ² (20AWG)*4C		0.519mm ² (20AWG)		0.34mm ² (22AWG)	
Panel Thickness	Max. 5.0mm					Max. 5.0mm			Max. 5.5mm		
Environmental Protection	IP68					IP67			IP67		
Mechanical Life	500 mating cycles										
Operating Temperature	-45°C - 105°C										
Voltage Rating	300V	300V	125V	60V	60V	60V	60V	60V	60V	30V	30V
Rated Current(40°C)	10A	10A	10A	5A	5A	10+5A	10+2A	5A	5A	2A	2A

● Standard Series , Male Connector & Female Pin

Description

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Figure

Field Installable, 180° Screw Type, Solder



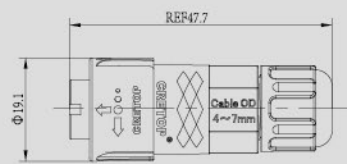
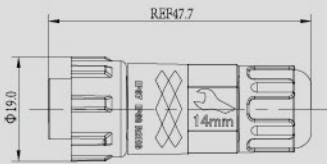
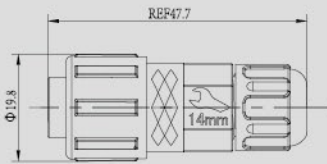
Field Installable, 180° Lock Bayonet Type, Solder



Field Installable, 180° Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	3.5-6.8	1400221A-01	2	3.5-6.8	1400221B-01	2	3.5-6.8	1400221C-01
3	3.5-6.8	1400321A-01	3	3.5-6.8	1400321B-01	3	3.5-6.8	1400321C-01
4	3.5-6.8	1400421A-01	4	3.5-6.8	1400421B-01	4	3.5-6.8	1400421C-01
5	3.5-6.8	1400521A-01	5	3.5-6.8	1400521B-01	5	3.5-6.8	1400521C-01
6	3.5-6.8	1400621A-01	6	3.5-6.8	1400621B-01	6	3.5-6.8	1400621C-01
7	3.5-6.8	1400721A-01	7	3.5-6.8	1400721B-01	7	3.5-6.8	1400721C-01
2+4	3.5-6.8	1420421A-01	2+4	3.5-6.8	1420421B-01	2+4	3.5-6.8	1420421C-01
3+4	3.5-6.8	1430421A-01	3+4	3.5-6.8	1430421B-01	3+4	3.5-6.8	1430421C-01
8	3.5-6.8	1400821A-01	8	3.5-6.8	1400821B-01	8	3.5-6.8	1400821C-01
10	3.5-6.8	1401021A-01	10	3.5-6.8	1401021B-01	10	3.5-6.8	1401021C-01
12	3.5-6.8	1401221A-01	12	3.5-6.8	1401221B-01	12	3.5-6.8	1401221C-01

Specifications

Number of Contacts	2	3	4	5	6	2+4	3+4	7	8	10	12	
Wire Gauge	0.823mm ² (18AWG)		0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C/3C 0.519mm ² (20AWG)*4C		0.519mm ² (20AWG)		0.34mm ² (22AWG)			
Panel Thickness	3.5mm - 6.8mm											
Environmental Protection	IP68				IP67				IP67			
Mechanical Life	500 mating cycles											
Operating Temperature	-45°C - 105°C											
Voltage Rating	300V	300V	125V	60V	60V	60V	60V	60V	60V	30V	30V	
Rated Current(40°C)	10A	10A	10A	5A	5A	10+5A	10+2A	5A	5A	2A	2A	

STANDARD SERIES

● Standard Series , Male Connector & Female Pin

Description

Figure

Molded With Cable, 180°
Screw Type, Solder



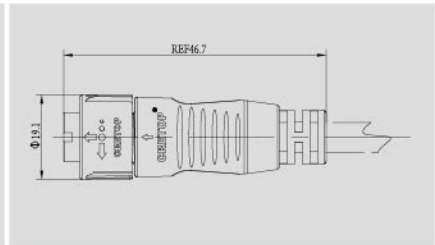
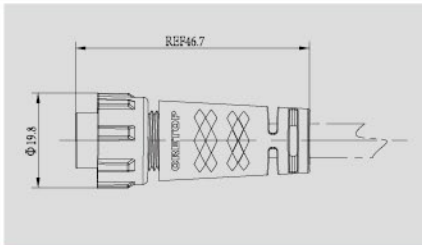
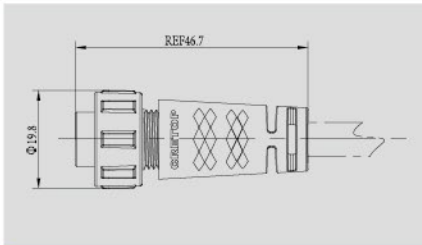
Molded With Cable, 180°
Lock Bayonet Type, Solder



Molded With Cable, 180°
Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	Max. 9.0mm	1400222A-01	2	Max. 9.0mm	1400222B-01	2	Max. 9.0mm	1400222C-01
3	Max. 9.0mm	1400322A-01	3	Max. 9.0mm	1400322B-01	3	Max. 9.0mm	1400322C-01
4	Max. 9.0mm	1400422A-01	4	Max. 9.0mm	1400422B-01	4	Max. 9.0mm	1400422C-01
5	Max. 9.0mm	1400522A-01	5	Max. 9.0mm	1400522B-01	5	Max. 9.0mm	1400522C-01
6	Max. 9.0mm	1400622A-01	6	Max. 9.0mm	1400622B-01	6	Max. 9.0mm	1400622C-01
7	Max. 9.0mm	1400722A-01	7	Max. 9.0mm	1400722B-01	7	Max. 9.0mm	1400722C-01
2+4	Max. 9.0mm	1420422A-01	2+4	Max. 9.0mm	1420422B-01	2+4	Max. 9.0mm	1420422C-01
3+4	Max. 9.0mm	1430422A-01	3+4	Max. 9.0mm	1430422B-01	3+4	Max. 9.0mm	1430422C-01
8	Max. 9.0mm	1400822A-01	8	Max. 9.0mm	1400822B-01	8	Max. 9.0mm	1400822C-01
10	Max. 9.0mm	1401022A-01	10	Max. 9.0mm	1401022B-01	10	Max. 9.0mm	1401022C-01
12	Max. 9.0mm	1401222A-01	12	Max. 9.0mm	1401222B-01	12	Max. 9.0mm	1401222C-01

Specifications

Number of Contacts	2	3	4	5	6	2+4	3+4	7	8	10	12	
Wire Gauge	0.823mm ² (18AWG)			0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C/3C 0.519mm ² (20AWG)*4C		0.519mm ² (20AWG)		0.34mm ² (22AWG)		
Panel Thickness	Max. 9.0mm											
Environmental Protection	IP68				IP67				IP67			
Mechanical Life	500 mating cycles											
Operating Temperature	-45°C - 80°C											
Voltage Rating	300V	300V	125V	60V	60V	60V	60V	60V	60V	30V	30V	
Rated Current(40°C)	10A	10A	10A	5A	5A	10+5A	10+2A	5A	5A	2A	2A	

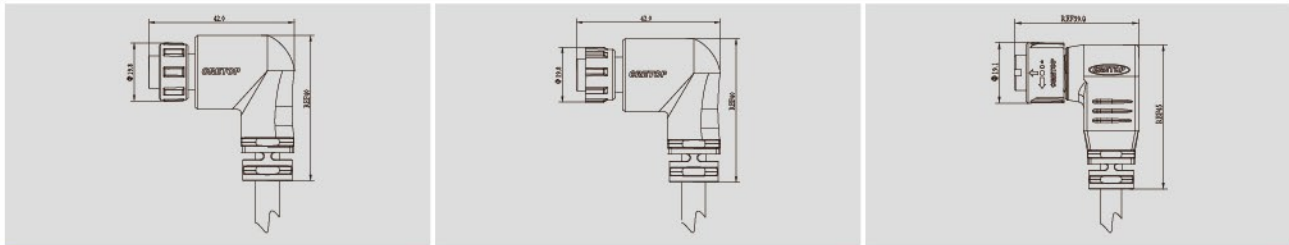
● Standard Series , Male Connector & Female Pin

Description CRETOP®

Figure



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	Max. 9.0mm	1400224A-01	2	Max. 9.0mm	1400224B-01	2	Max. 9.0mm	1400224C-01
3	Max. 9.0mm	1400324A-01	3	Max. 9.0mm	1400324B-01	3	Max. 9.0mm	1400324C-01
4	Max. 9.0mm	1400424A-01	4	Max. 9.0mm	1400424B-01	4	Max. 9.0mm	1400424C-01
5	Max. 9.0mm	1400524A-01	5	Max. 9.0mm	1400524B-01	5	Max. 9.0mm	1400524C-01
6	Max. 9.0mm	1400624A-01	6	Max. 9.0mm	1400624B-01	6	Max. 9.0mm	1400624C-01
7	Max. 9.0mm	1400724A-01	7	Max. 9.0mm	1400724B-01	7	Max. 9.0mm	1400724C-01
2+4	Max. 9.0mm	1420424A-01	2+4	Max. 9.0mm	1420424B-01	2+4	Max. 9.0mm	1420424C-01
3+4	Max. 9.0mm	1430424A-01	3+4	Max. 9.0mm	1430424B-01	3+4	Max. 9.0mm	1430424C-01
8	Max. 9.0mm	1400824A-01	8	Max. 9.0mm	1400824B-01	8	Max. 9.0mm	1400824C-01
10	Max. 9.0mm	1401024A-01	10	Max. 9.0mm	1401024B-01	10	Max. 9.0mm	1401024C-01
12	Max. 9.0mm	1401224A-01	12	Max. 9.0mm	1401224B-01	12	Max. 9.0mm	1401224C-01

Specifications

Number of Contacts	2	3	4	5	6	2+4	3+4	7	8	10	12	
Wire Gauge	0.823mm ² (18AWG)			0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C/3C 0.519mm ² (20AWG)*4C		0.519mm ² (20AWG)		0.34mm ² (22AWG)		
Panel Thickness	Max. 9.0mm											
Environmental Protection	IP68				IP67				IP67			
Mechanical Life	500 mating cycles											
Operating Temperature	-45°C - 80°C											
Voltage Rating	300V	300V	125V	60V	60V	60V	60V	60V	60V	30V	30V	
Rated Current(40°C)	10A	10A	10A	5A	5A	10+5A	10+2A	5A	5A	2A	2A	

STANDARD SERIES

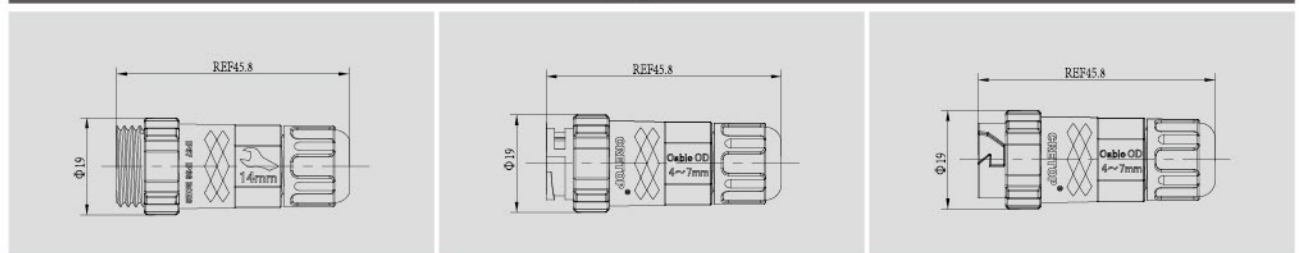
● Standard Series , Female Connector & Male Pin

Description CRETOP®

Figure



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	3.5-6.8	1400231A-01	2	3.5-6.8	1400231B-01	2	3.5-6.8	1400231C-01
3	3.5-6.8	1400331A-01	3	3.5-6.8	1400331B-01	3	3.5-6.8	1400331C-01
4	3.5-6.8	1400431A-01	4	3.5-6.8	1400431B-01	4	3.5-6.8	1400431C-01
5	3.5-6.8	1400531A-01	5	3.5-6.8	1400531B-01	5	3.5-6.8	1400531C-01
6	3.5-6.8	1400631A-01	6	3.5-6.8	1400631B-01	6	3.5-6.8	1400631C-01
7	3.5-6.8	1400731A-01	7	3.5-6.8	1400731B-01	7	3.5-6.8	1400731C-01
2+4	3.5-6.8	1420431A-01	2+4	3.5-6.8	1420431B-01	2+4	3.5-6.8	1420431C-01
3+4	3.5-6.8	1430431A-01	3+4	3.5-6.8	1430431B-01	3+4	3.5-6.8	1430431C-01
8	3.5-6.8	1400831A-01	8	3.5-6.8	1400831B-01	8	3.5-6.8	1400831C-01
10	3.5-6.8	1401031A-01	10	3.5-6.8	1401031B-01	10	3.5-6.8	1401031C-01
12	3.5-6.8	1401231A-01	12	3.5-6.8	1401231B-01	12	3.5-6.8	1401231C-01

Specifications

Number of Contacts	2	3	4	5	6	2+4	3+4	7	8	10	12	
Wire Gauge	0.823mm ² (18AWG)			0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C/3C 0.519mm ² (20AWG)*4C		0.519mm ² (20AWG)		0.34mm ² (22AWG)		
Panel Thickness	3.5mm - 6.8mm											
Environmental Protection	IP68				IP67				IP67			
Mechanical Life	500 mating cycles											
Operating Temperature	-45°C - 105°C											
Voltage Rating	300V	300V	125V	60V	60V	60V	60V	60V	60V	30V	30V	
Rated Current(40°C)	10A	10A	10A	5A	5A	10+5A	10+2A	5A	5A	2A	2A	

● Standard Series , Female Connector & Male Pin

Description

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Figure

Molded With Cable, 180° Screw Type, Solder



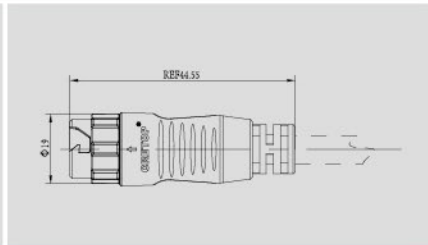
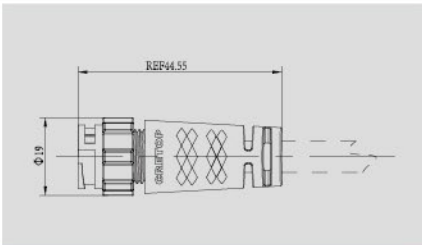
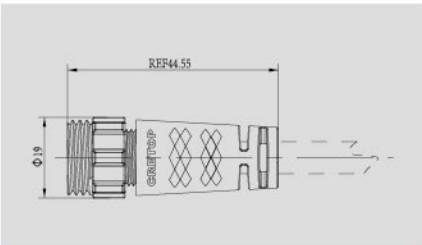
Molded With Cable, 180° Lock Bayonet Type, Solder



Molded With Cable, 180° Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	Max. 9.0mm	1400232A-01	2	Max. 9.0mm	1400232B-01	2	Max. 9.0mm	1400232C-01
3	Max. 9.0mm	1400332A-01	3	Max. 9.0mm	1400332B-01	3	Max. 9.0mm	1400332C-01
4	Max. 9.0mm	1400432A-01	4	Max. 9.0mm	1400432B-01	4	Max. 9.0mm	1400432C-01
5	Max. 9.0mm	1400532A-01	5	Max. 9.0mm	1400532B-01	5	Max. 9.0mm	1400532C-01
6	Max. 9.0mm	1400632A-01	6	Max. 9.0mm	1400632B-01	6	Max. 9.0mm	1400632C-01
7	Max. 9.0mm	1400732A-01	7	Max. 9.0mm	1400732B-01	7	Max. 9.0mm	1400732C-01
2+4	Max. 9.0mm	1420432A-01	2+4	Max. 9.0mm	1420432B-01	2+4	Max. 9.0mm	1420432C-01
3+4	Max. 9.0mm	1430432A-01	3+4	Max. 9.0mm	1430432B-01	3+4	Max. 9.0mm	1430432C-01
8	Max. 9.0mm	1400832A-01	8	Max. 9.0mm	1400832B-01	8	Max. 9.0mm	1400832C-01
10	Max. 9.0mm	1401032A-01	10	Max. 9.0mm	1401032B-01	10	Max. 9.0mm	1401032C-01
12	Max. 9.0mm	1401232A-01	12	Max. 9.0mm	1401232B-01	12	Max. 9.0mm	1401232C-01

Specifications

Number of Contacts	2	3	4	5	6	2+4	3+4	7	8	10	12	
Wire Gauge	0.823mm ² (18AWG)		0.519mm ² (20AWG)		0.823mm ² (18AWG)*2C/3C 0.519mm ² (20AWG)*4C		0.519mm ² (20AWG)		0.34mm ² (22AWG)			
Panel Thickness	Max. 9.0mm											
Environmental Protection	IP68				IP67				IP67			
Mechanical Life	500 mating cycles											
Operating Temperature	-45°C - 80°C											
Voltage Rating	300V	300V	125V	60V	60V	60V	60V	60V	60V	30V	30V	
Rated Current(40°C)	10A	10A	10A	5A	5A	10+5A	10+2A	5A	5A	2A	2A	

Middle Series

1.Middle Series , Assembly Instruction	P59
2.Middle Series , Front Panel Mount & Female Pin.....	P60-P61
3.Middle Series , Rear Panel Mount & Female Pin.....	P62
4.Middle Series , Male Connector & Male Pin.....	P63-P65
5.Middle Series , Female Connector & Female Pin.....	P66-P67
6.Middle Series , Front Panel Mount & Male Pin	P68-P69
7.Middle Series , Rear Panel Mount & Male Pin.....	P70
8.Middle Series , Male Connector & Female Pin.....	P71-P73
9.Middle Series , Female Connector & Male Pin.....	P74-P75





Assembly/Wiring Instructions


Middle Series


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- 1 Strip and prepare Cable.



- 2 Thread Seals Nut, Seals Ring, Clamp Ring and Gasket onto the cable.



- 3 Solder wire


- 4 Assemble Gasket into Clamp ring:
Gasket Direction
(Flat Surface to Housing)


- 5 Assemble Clamp Ring to Housing


- 6 Put Seals Ring to the end of Clamp Ring.


- 7 Assemble Seals Nut and Clamp Ring.



● Middle Series , Front Panel Mount & Female Pin

Description

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Figure

Front Panel Mount
Screw Type, Solder



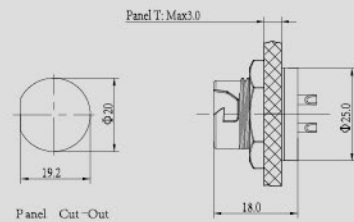
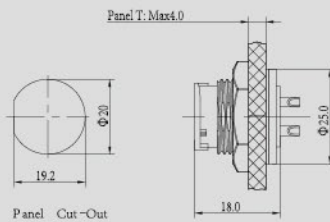
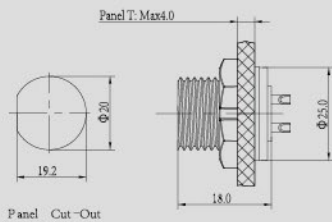
Front Panel Mount
Lock Bayonet Type, Solder



Front Panel Mount
Push Lock Type, Solder



Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number	Contacts	Part-Number
2	1500265A-01	2	1500265B-01	2	1500265C-01
3	1500365A-01	3	1500365B-01	3	1500365C-01
4	1500465A-01	4	1500465B-01	4	1500465C-01
5	1500565A-01	5	1500565B-01	5	1500565C-01
6	1500665A-01	6	1500665B-01	6	1500665C-01
7	1500765A-01	7	1500765B-01	7	1500765C-01
8	1500865A-01	8	1500865B-01	8	1500865C-01
3+5	1530565A-01	3+5	1530565B-01	3+5	1530565C-01
9	1500965A-01	9	1500965B-01	9	1500965C-01
10	1501065A-01	10	1501065B-01	10	1501065C-01
12	1501265A-01	12	1501265B-01	12	1501265C-01
14	1501465A-01	14	1501465B-01	14	1501465C-01
18	1501865A-01	18	1501865B-01	18	1501865C-01

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG	0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG		0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	Max. 4.0mm					Max. 4.0mm				Max. 3.0mm			
Environmental Protection	IP68					IP67				IP67			
Mechanical Life	500 mating cycles												
Operating Temperature	-45°C - 105°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	2A	2A	2A

MIDDLE SERIES

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● Middle Series , Front Panel Mount & Female Pin

Description

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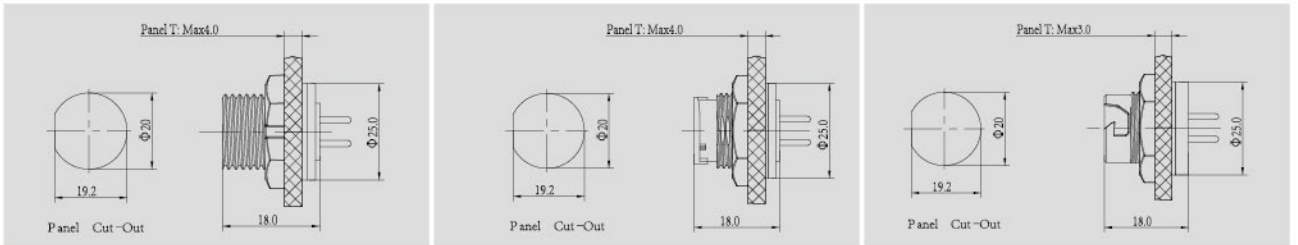
Figure

 Front Panel Mount
Screw Type, PCB

 Front Panel Mount
Lock Bayonet Type, PCB

 Front Panel Mount
Push Lock Type, PCB


Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number	Contacts	Part-Number
2	1500265A-02	2	1500265B-02	2	1500265C-02
3	1500365A-02	3	1500365B-02	3	1500365C-02
4	1500465A-02	4	1500465B-02	4	1500465C-02
5	1500565A-02	5	1500565B-02	5	1500565C-02
6	1500665A-02	6	1500665B-02	6	1500665C-02
7	1500765A-02	7	1500765B-02	7	1500765C-02
8	1500865A-02	8	1500865B-02	8	1500865C-02
3+5	1530565A-02	3+5	1530565B-02	3+5	1530565C-02
9	1500965A-02	9	1500965B-02	9	1500965C-02
10	1501065A-02	10	1501065B-02	10	1501065C-02
12	1501265A-02	12	1501265B-02	12	1501265C-02
14	1501465A-02	14	1501465B-02	14	1501465C-02
18	1501865A-02	18	1501865B-02	18	1501865C-02

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG		0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG	0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	Max. 4.0mm					Max. 4.0mm				Max. 3.0mm			
Environmental Protection	IP68					IP67				IP67			
Mechanical Life	500 mating cycles												
Operating Temperature	-45°C - 105°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	2A	2A	2A

● Middle Series , Rear Panel Mount & Female Pin

Description

CRETOP®

Figure

Rear Panel Mount
Screw Type, Solder



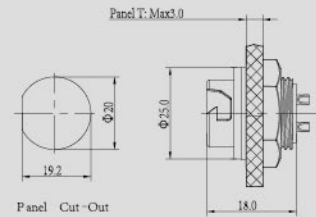
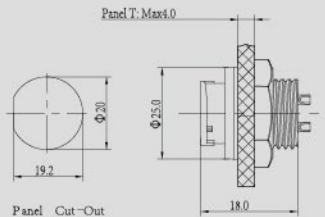
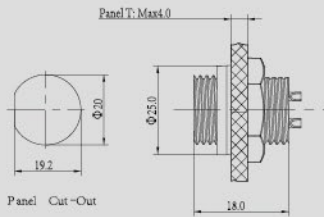
Rear Panel Mount
Lock Bayonet Type, Solder



Rear Panel Mount
Push Lock Type, Solder



Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number	Contacts	Part-Number
2	1500265A-03	2	1500265B-03	2	1500265C-03
3	1500365A-03	3	1500365B-03	3	1500365C-03
4	1500465A-03	4	1500465B-03	4	1500465C-03
5	1500565A-03	5	1500565B-03	5	1500565C-03
6	1500665A-03	6	1500665B-03	6	1500665C-03
7	1500765A-03	7	1500765B-03	7	1500765C-03
8	1500865A-03	8	1500865B-03	8	1500865C-03
3+5	1530565A-03	3+5	1530565B-03	3+5	1530565C-03
9	1500965A-03	9	1500965B-03	9	1500965C-03
10	1501065A-03	10	1501065B-03	10	1501065C-03
12	1501265A-03	12	1501265B-03	12	1501265C-03
14	1501465A-03	14	1501465B-03	14	1501465C-03
18	1501865A-03	18	1501865B-03	18	1501865C-03

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG	0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG		0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	Max. 4.0mm					Max. 4.0mm				Max. 3.0mm			
Environmental Protection	IP68					IP67				IP67			
Mechanical Life	500 mating cycles												
Operating Temperature	-45°C - 105°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	2A	2A	2A

MIDDLE SERIES



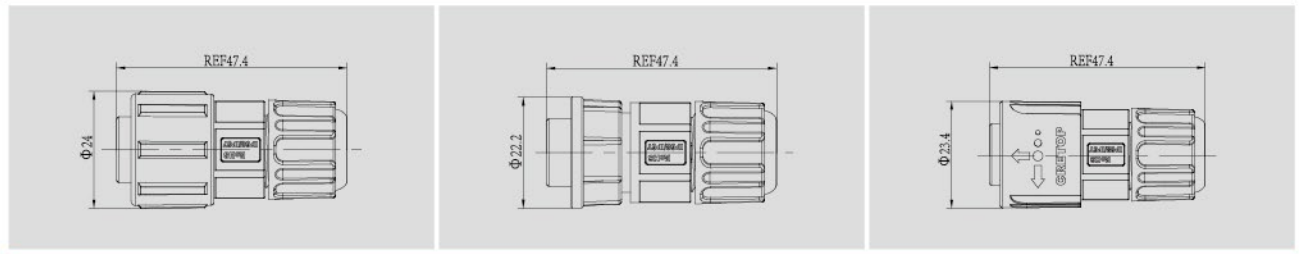
● Middle Series , Male Connector & Male Pin

Description CRETOP®

Figure



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	3.5 - 6.5	1500211A-01 .9A	2	3.5 - 6.5	1500211B-01 .9A	2	3.5 - 6.5	1500211C-01 .9A
	6.5 - 9.5	1500211A-02 .9A		6.5 - 9.5	1500211B-02 .9A		6.5 - 9.5	1500211C-02 .9A
3	3.5 - 6.5	1500311A-01 .9A	3	3.5 - 6.5	1500311B-01 .9A	3	3.5 - 6.5	1500311C-01 .9A
	6.5 - 9.5	1500311A-02 .9A		6.5 - 9.5	1500311B-02 .9A		6.5 - 9.5	1500311C-02 .9A
4	3.5 - 6.5	1500411A-01 .9A	4	3.5 - 6.5	1500411B-01 .9A	4	3.5 - 6.5	1500411C-01 .9A
	6.5 - 9.5	1500411A-02 .9A		6.5 - 9.5	1500411B-02 .9A		6.5 - 9.5	1500411C-02 .9A
5	3.5 - 6.5	1500511A-01 .9A	5	3.5 - 6.5	1500511B-01 .9A	5	3.5 - 6.5	1500511C-01 .9A
	6.5 - 9.5	1500511A-02 .9A		6.5 - 9.5	1500511B-02 .9A		6.5 - 9.5	1500511C-02 .9A
6	3.5 - 6.5	1500611A-01 .9A	6	3.5 - 6.5	1500611B-01 .9A	6	3.5 - 6.5	1500611C-01 .9A
	6.5 - 9.5	1500611A-02 .9A		6.5 - 9.5	1500611B-02 .9A		6.5 - 9.5	1500611C-02 .9A
7	3.5 - 6.5	1500711A-01 .9A	7	3.5 - 6.5	1500711B-01 .9A	7	3.5 - 6.5	1500711C-01 .9A
	6.5 - 9.5	1500711A-02 .9A		6.5 - 9.5	1500711B-02 .9A		6.5 - 9.5	1500711C-02 .9A
8	3.5 - 6.5	1500811A-01 .9A	8	3.5 - 6.5	1500811B-01 .9A	8	3.5 - 6.5	1500811C-01 .9A
	6.5 - 9.5	1500811A-02 .9A		6.5 - 9.5	1500811B-02 .9A		6.5 - 9.5	1500811C-02 .9A
3+5	3.5 - 6.5	1530511A-01 .9A	3+5	3.5 - 6.5	1530511B-01 .9A	3+5	3.5 - 6.5	1530511C-01 .9A
	6.5 - 9.5	1530511A-02 .9A		6.5 - 9.5	1530511B-02 .9A		6.5 - 9.5	1530511C-02 .9A
9	3.5 - 6.5	1500911A-01 .9A	9	3.5 - 6.5	1500911B-01 .9A	9	3.5 - 6.5	1500911C-01 .9A
	6.5 - 9.5	1500911A-02 .9A		6.5 - 9.5	1500911B-02 .9A		6.5 - 9.5	1500911C-02 .9A
10	3.5 - 6.5	1501011A-01 .9A	10	3.5 - 6.5	1501011B-01 .9A	10	3.5 - 6.5	1501011C-01 .9A
	6.5 - 9.5	1501011A-02 .9A		6.5 - 9.5	1501011B-02 .9A		6.5 - 9.5	1501011C-02 .9A
12	3.5 - 6.5	1501211A-01 .9A	12	3.5 - 6.5	1501211B-01 .9A	12	3.5 - 6.5	1501211C-01 .9A
	6.5 - 9.5	1501211A-02 .9A		6.5 - 9.5	1501211B-02 .9A		6.5 - 9.5	1501211C-02 .9A
14	3.5 - 6.5	1501411A-01 .9A	14	3.5 - 6.5	1501411B-01 .9A	14	3.5 - 6.5	1501411C-01 .9A
	6.5 - 9.5	1501411A-02 .9A		6.5 - 9.5	1501411B-02 .9A		6.5 - 9.5	1501411C-02 .9A
18	3.5 - 6.5	1501811A-01 .9A	18	3.5 - 6.5	1501811B-01 .9A	18	3.5 - 6.5	1501811C-01 .9A
	6.5 - 9.5	1501811A-02 .9A		6.5 - 9.5	1501811B-02 .9A		6.5 - 9.5	1501811C-02 .9A

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG		0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG	0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	3.5mm - 6.5mm, 6.5mm - 9.5mm												
Environmental Protection	IP68				IP67				IP67				
Mechanical Life	500 mating cycles												
Operating Temperature	-45°C - 105°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	2A	2A	2A

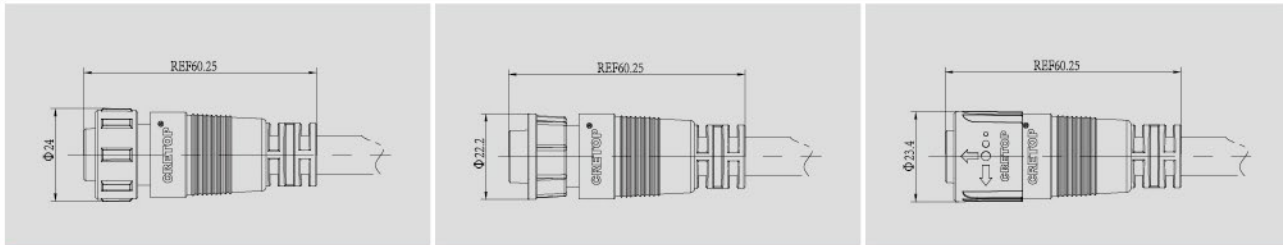
● Middle Series , Male Connector & Male Pin

Description CRETOP®

Figure



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	Max. 10.8	1500212A-01	2	Max. 10.8	1500212B-01	2	Max. 10.8	1500212C-01
3	Max. 10.8	1500312A-01	3	Max. 10.8	1500312B-01	3	Max. 10.8	1500312C-01
4	Max. 10.8	1500412A-01	4	Max. 10.8	1500412B-01	4	Max. 10.8	1500412C-01
5	Max. 10.8	1500512A-01	5	Max. 10.8	1500512B-01	5	Max. 10.8	1500512C-01
6	Max. 10.8	1500612A-01	6	Max. 10.8	1500612B-01	6	Max. 10.8	1500612C-01
7	Max. 10.8	1500712A-01	7	Max. 10.8	1500712B-01	7	Max. 10.8	1500712C-01
8	Max. 10.8	1500812A-01	8	Max. 10.8	1500812B-01	8	Max. 10.8	1500812C-01
3+5	Max. 10.8	1530512A-01	3+5	Max. 10.8	1530512B-01	3+5	Max. 10.8	1530512C-01
9	Max. 10.8	1500912A-01	9	Max. 10.8	1500912B-01	9	Max. 10.8	1500912C-01
10	Max. 10.8	1501012A-01	10	Max. 10.8	1501012B-01	10	Max. 10.8	1501012C-01
12	Max. 10.8	1501212A-01	12	Max. 10.8	1501212B-01	12	Max. 10.8	1501212C-01
14	Max. 10.8	1501412A-01	14	Max. 10.8	1501412B-01	14	Max. 10.8	1501412C-01
18	Max. 10.8	1501812A-01	18	Max. 10.8	1501812B-01	18	Max. 10.8	1501812C-01

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG		0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG	0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	Max. 10.8mm												
Environmental Protection	IP67												
Mechanical Life	500 mating cycles												
Operating Temperature	-40°C - 80°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	2A	2A	2A

MIDDLE SERIES



● Middle Series , Male Connector & Male Pin

Description CRETOP®

Description	Figure
Molded, 90° Screw Type, Solder	
Molded, 90° Lock Bayonet Type, Solder	
Molded, 90° Push Lock Type Solder	

Drawing

Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	Max. 10.8	1500214A-01	2	Max. 10.8	1500214B-01	2	Max. 10.8	1500214C-01
3	Max. 10.8	1500314A-01	3	Max. 10.8	1500314B-01	3	Max. 10.8	1500314C-01
4	Max. 10.8	1500414A-01	4	Max. 10.8	1500414B-01	4	Max. 10.8	1500414C-01
5	Max. 10.8	1500514A-01	5	Max. 10.8	1500514B-01	5	Max. 10.8	1500514C-01
6	Max. 10.8	1500614A-01	6	Max. 10.8	1500614B-01	6	Max. 10.8	1500614C-01
7	Max. 10.8	1500714A-01	7	Max. 10.8	1500714B-01	7	Max. 10.8	1500714C-01
8	Max. 10.8	1500814A-01	8	Max. 10.8	1500814B-01	8	Max. 10.8	1500814C-01
3+5	Max. 10.8	1530514A-01	3+5	Max. 10.8	1530514B-01	3+5	Max. 10.8	1530514C-01
9	Max. 10.8	1500914A-01	9	Max. 10.8	1500914B-01	9	Max. 10.8	1500914C-01
10	Max. 10.8	1501014A-01	10	Max. 10.8	1501014B-01	10	Max. 10.8	1501014C-01
12	Max. 10.8	1501214A-01	12	Max. 10.8	1501214B-01	12	Max. 10.8	1501214C-01
14	Max. 10.8	1501414A-01	14	Max. 10.8	1501414B-01	14	Max. 10.8	1501414C-01
18	Max. 10.8	1501814A-01	18	Max. 10.8	1501814B-01	18	Max. 10.8	1501814C-01

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG		0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG	0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	Max. 10.8mm												
Environmental Protection	IP67												
Mechanical Life	500 mating cycles												
Operating Temperature	-40°C - 80°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	2A	2A	2A

● Middle Series , Female Connector & Female Pin

Description

CRETOP®

Figure

Field Installable, 180°
Screw Type, Solder



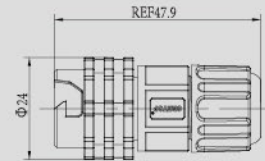
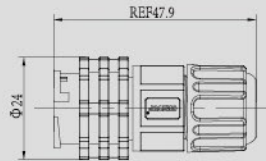
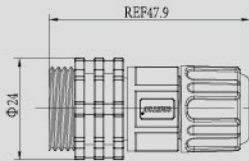
Field Installable, 180°
Lock Bayonet Type, Solder



Field Installable, 180°
Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	3.5 - 6.5	1500241A-01	2	3.5 - 6.5	1500241B-01	2	3.5 - 6.5	1500241C-01
	6.5 - 9.5	1500241A-02		6.5 - 9.5	1500241B-02		6.5 - 9.5	1500241C-02
3	3.5 - 6.5	1500341A-01	3	3.5 - 6.5	1500341B-01	3	3.5 - 6.5	1500341C-01
	6.5 - 9.5	1500341A-02		6.5 - 9.5	1500341B-02		6.5 - 9.5	1500341C-02
4	3.5 - 6.5	1500441A-01	4	3.5 - 6.5	1500441B-01	4	3.5 - 6.5	1500441C-01
	6.5 - 9.5	1500441A-02		6.5 - 9.5	1500441B-02		6.5 - 9.5	1500441C-02
5	3.5 - 6.5	1500541A-01	5	3.5 - 6.5	1500541B-01	5	3.5 - 6.5	1500541C-01
	6.5 - 9.5	1500541A-02		6.5 - 9.5	1500541B-02		6.5 - 9.5	1500541C-02
6	3.5 - 6.5	1500641A-01	6	3.5 - 6.5	1500641B-01	6	3.5 - 6.5	1500641C-01
	6.5 - 9.5	1500641A-02		6.5 - 9.5	1500641B-02		6.5 - 9.5	1500641C-02
7	3.5 - 6.5	1500741A-01	7	3.5 - 6.5	1500741B-01	7	3.5 - 6.5	1500741C-01
	6.5 - 9.5	1500741A-02		6.5 - 9.5	1500741B-02		6.5 - 9.5	1500741C-02
8	3.5 - 6.5	1500841A-01	8	3.5 - 6.5	1500841B-01	8	3.5 - 6.5	1500841C-01
	6.5 - 9.5	1500841A-02		6.5 - 9.5	1500841B-02		6.5 - 9.5	1500841C-02
3+5	3.5 - 6.5	1530541A-01	3+5	3.5 - 6.5	1530541B-01	3+5	3.5 - 6.5	1530541C-01
	6.5 - 9.5	1530541A-02		6.5 - 9.5	1530541B-02		6.5 - 9.5	1530541C-02
9	3.5 - 6.5	1500941A-01	9	3.5 - 6.5	1500941B-01	9	3.5 - 6.5	1500941C-01
	6.5 - 9.5	1500941A-02		6.5 - 9.5	1500941B-02		6.5 - 9.5	1500941C-02
10	3.5 - 6.5	1501041A-01	10	3.5 - 6.5	1501041B-01	10	3.5 - 6.5	1501041C-01
	6.5 - 9.5	1501041A-02		6.5 - 9.5	1501041B-02		6.5 - 9.5	1501041C-02
12	3.5 - 6.5	1501241A-01	12	3.5 - 6.5	1501241B-01	12	3.5 - 6.5	1501241C-01
	6.5 - 9.5	1501241A-02		6.5 - 9.5	1501241B-02		6.5 - 9.5	1501241C-02
14	3.5 - 6.5	1501441A-01	14	3.5 - 6.5	1501441B-01	14	3.5 - 6.5	1501441C-01
	6.5 - 9.5	1501441A-02		6.5 - 9.5	1501441B-02		6.5 - 9.5	1501441C-02
18	3.5 - 6.5	1501841A-01	18	3.5 - 6.5	1501841B-01	18	3.5 - 6.5	1501841C-01
	6.5 - 9.5	1501841A-02		6.5 - 9.5	1501841B-02		6.5 - 9.5	1501841C-02

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG		0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG	0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	3.5mm - 6.5mm, 6.5mm - 9.5mm												
Environmental Protection	IP68					IP67					IP67		
Mechanical Life	500 mating cycles												
Operating Temperature	-45°C - 105°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	2A	2A	2A

MIDDLE SERIES

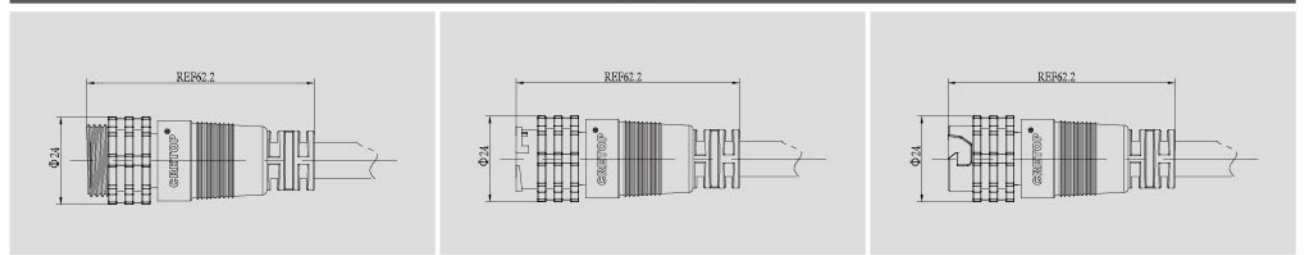
● Middle Series , Female Connector & Female Pin

Description CRETOP®

Figure



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	Max. 10.8	1500242A-01	2	Max. 10.8	1500242B-01	2	Max. 10.8	1500242C-01
3	Max. 10.8	1500342A-01	3	Max. 10.8	1500342B-01	3	Max. 10.8	1500342C-01
4	Max. 10.8	1500442A-01	4	Max. 10.8	1500442B-01	4	Max. 10.8	1500442C-01
5	Max. 10.8	1500542A-01	5	Max. 10.8	1500542B-01	5	Max. 10.8	1500542C-01
6	Max. 10.8	1500642A-01	6	Max. 10.8	1500642B-01	6	Max. 10.8	1500642C-01
7	Max. 10.8	1500742A-01	7	Max. 10.8	1500742B-01	7	Max. 10.8	1500742C-01
8	Max. 10.8	1500842A-01	8	Max. 10.8	1500842B-01	8	Max. 10.8	1500842C-01
3+5	Max. 10.8	1530542A-01	3+5	Max. 10.8	1530542B-01	3+5	Max. 10.8	1530542C-01
9	Max. 10.8	1500942A-01	9	Max. 10.8	1500942B-01	9	Max. 10.8	1500942C-01
10	Max. 10.8	1501042A-01	10	Max. 10.8	1501042B-01	10	Max. 10.8	1501042C-01
12	Max. 10.8	1501242A-01	12	Max. 10.8	1501242B-01	12	Max. 10.8	1501242C-01
14	Max. 10.8	1501442A-01	14	Max. 10.8	1501442B-01	14	Max. 10.8	1501442C-01
18	Max. 10.8	1501842A-01	18	Max. 10.8	1501842B-01	18	Max. 10.8	1501842C-01

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG		0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG	0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	Max. 10.8mm												
Environmental Protection	IP67												
Mechanical Life	500 mating cycles												
Operating Temperature	-40°C - 80°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	2A	2A	2A

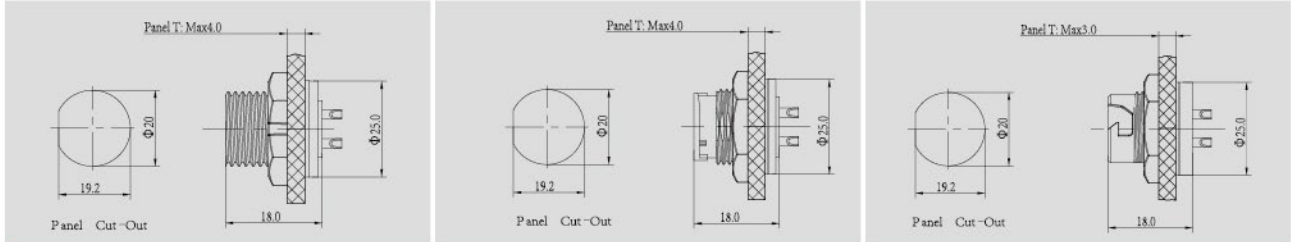
● Middle Series , Front Panel Mount & Male Pin

Description CRETOP®

Figure



Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number	Contacts	Part-Number
2	1500255A-01	2	1500255B-01	2	1500255C-01
3	1500355A-01	3	1500355B-01	3	1500355C-01
4	1500455A-01	4	1500455B-01	4	1500455C-01
5	1500555A-01	5	1500555B-01	5	1500555C-01
6	1500655A-01	6	1500655B-01	6	1500655C-01
7	1500755A-01	7	1500755B-01	7	1500755C-01
8	1500855A-01	8	1500855B-01	8	1500855C-01
3+5	1530555A-01	3+5	1530555B-01	3+5	1530555C-01
9	1500955A-01	9	1500955B-01	9	1500955C-01
10	1501055A-01	10	1501055B-01	10	1501055C-01
12	1501255A-01	12	1501255B-01	12	1501255C-01
14	1501455A-01	14	1501455B-01	14	1501455C-01
18	1501855A-01	18	1501855B-01	18	1501855C-01

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG	0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG		0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	Max. 4.0mm					Max. 4.0mm				Max. 3.0mm			
Environmental Protection	IP68					IP67				IP67			
Mechanical Life	500 mating cycles												
Operating Temperature	-45°C - 105°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	5A	5A	2A

MIDDLE SERIES

CRETOP®

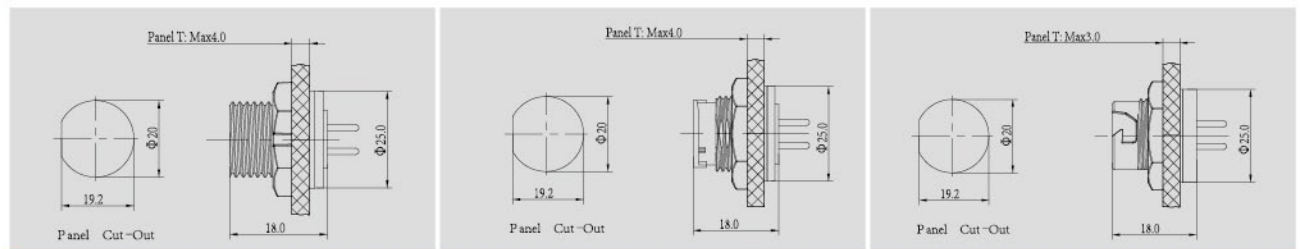
● Middle Series , Front Panel Mount & Male Pin

Description CRETOP®

Figure



Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number	Contacts	Part-Number
2	1500255A-02	2	1500255B-02	2	1500255C-02
3	1500355A-02	3	1500355B-02	3	1500355C-02
4	1500455A-02	4	1500455B-02	4	1500455C-02
5	1500555A-02	5	1500555B-02	5	1500555C-02
6	1500655A-02	6	1500655B-02	6	1500655C-02
7	1500755A-02	7	1500755B-02	7	1500755C-02
8	1500855A-02	8	1500855B-02	8	1500855C-02
3+5	1530555A-02	3+5	1530555B-02	3+5	1530555C-02
9	1500955A-02	9	1500955B-02	9	1500955C-02
10	1501055A-02	10	1501055B-02	10	1501055C-02
12	1501255A-02	12	1501255B-02	12	1501255C-02
14	1501455A-02	14	1501455B-02	14	1501455C-02
18	1501855A-02	18	1501855B-02	18	1501855C-02

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG		0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG	0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	Max. 4.0mm					Max. 4.0mm				Max. 3.0mm			
Environmental Protection	IP68					IP67				IP67			
Mechanical Life	500 mating cycles												
Operating Temperature	-45°C - 105°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	5A	5A	2A

● Middle Series , Rear Panel Mount & Male Pin

Description

CRETOP®

Figure

Rear Panel Mount
Screw Type, Solder



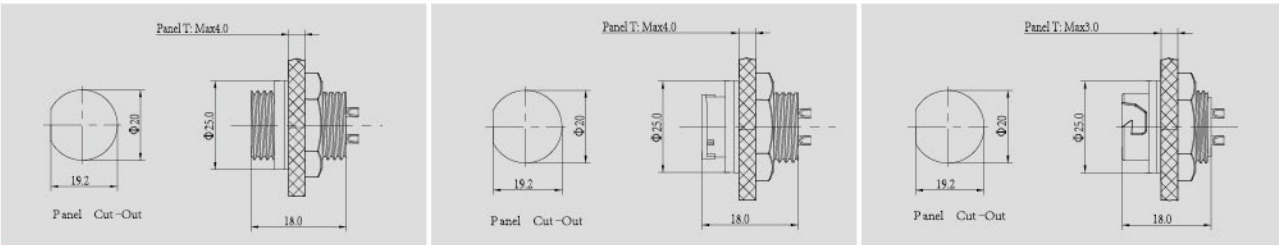
Rear Panel Mount
Lock Bayonet Type, Solder



Rear Panel Mount
Push Lock Type, Solder



Drawing



Part-No.

Contacts	Part-Number	Contacts	Part-Number	Contacts	Part-Number
2	1500255A-03	2	1500255B-03	2	1500255C-03
3	1500355A-03	3	1500355B-03	3	1500355C-03
4	1500455A-03	4	1500455B-03	4	1500455C-03
5	1500555A-03	5	1500555B-03	5	1500555C-03
6	1500655A-03	6	1500655B-03	6	1500655C-03
7	1500755A-03	7	1500755B-03	7	1500755C-03
8	1500855A-03	8	1500855B-03	8	1500855C-03
3+5	1530555A-03	3+5	1530555B-03	3+5	1530555C-03
9	1500955A-03	9	1500955B-03	9	1500955C-03
10	1501055A-03	10	1501055B-03	10	1501055C-03
12	1501255A-03	12	1501255B-03	12	1501255C-03
14	1501455A-03	14	1501455B-03	14	1501455C-03
18	1501855A-03	18	1501855B-03	18	1501855C-03

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG		0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG	0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	Max. 4.0mm					Max. 4.0mm				Max. 3.0mm			
Environmental Protection	IP68					IP67				IP67			
Mechanical Life	500 mating cycles												
Operating Temperature	-45°C - 105°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	5A	5A	2A

MIDDLE SERIES

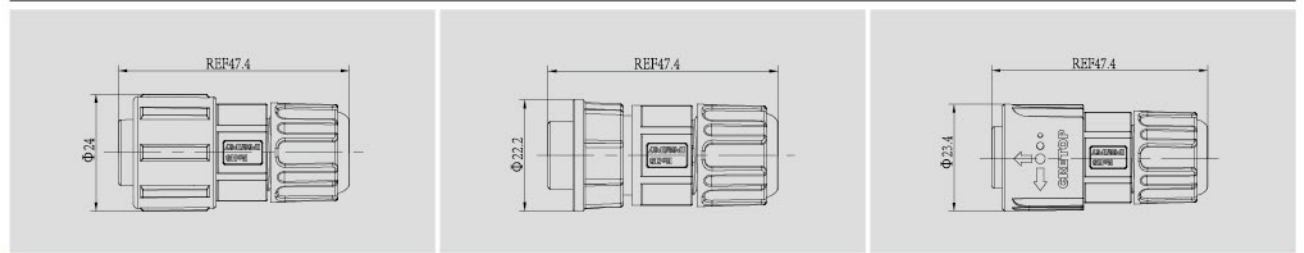
● Middle Series , Male Connector & Female Pin

Description CRETOP®

Figure



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	3.5 - 6.5	1500221A-01	2	3.5 - 6.5	1500221B-01	2	3.5 - 6.5	1500221C-01
	6.5 - 9.5	1500221A-02		6.5 - 9.5	1500221B-02		6.5 - 9.5	1500221C-02
3	3.5 - 6.5	1500321A-01	3	3.5 - 6.5	1500321B-01	3	3.5 - 6.5	1500321C-01
	6.5 - 9.5	1500321A-02		6.5 - 9.5	1500321B-02		6.5 - 9.5	1500321C-02
4	3.5 - 6.5	1500421A-01	4	3.5 - 6.5	1500421B-01	4	3.5 - 6.5	1500421C-01
	6.5 - 9.5	1500421A-02		6.5 - 9.5	1500421B-02		6.5 - 9.5	1500421C-02
5	3.5 - 6.5	1500521A-01	5	3.5 - 6.5	1500521B-01	5	3.5 - 6.5	1500521C-01
	6.5 - 9.5	1500521A-02		6.5 - 9.5	1500521B-02		6.5 - 9.5	1500521C-02
6	3.5 - 6.5	1500621A-01	6	3.5 - 6.5	1500621B-01	6	3.5 - 6.5	1500621C-01
	6.5 - 9.5	1500621A-02		6.5 - 9.5	1500621B-02		6.5 - 9.5	1500621C-02
7	3.5 - 6.5	1500721A-01	7	3.5 - 6.5	1500721B-01	7	3.5 - 6.5	1500721C-01
	6.5 - 9.5	1500721A-02		6.5 - 9.5	1500721B-02		6.5 - 9.5	1500721C-02
8	3.5 - 6.5	1500821A-01	8	3.5 - 6.5	1500821B-01	8	3.5 - 6.5	1500821C-01
	6.5 - 9.5	1500821A-02		6.5 - 9.5	1500821B-02		6.5 - 9.5	1500821C-02
3+5	3.5 - 6.5	1530521A-01	3+5	3.5 - 6.5	1530521B-01	3+5	3.5 - 6.5	1530521C-01
	6.5 - 9.5	1530521A-02		6.5 - 9.5	1530521B-02		6.5 - 9.5	1530521C-02
9	3.5 - 6.5	1500921A-01	9	3.5 - 6.5	1500921B-01	9	3.5 - 6.5	1500921C-01
	6.5 - 9.5	1500921A-02		6.5 - 9.5	1500921B-02		6.5 - 9.5	1500921C-02
10	3.5 - 6.5	1501021A-01	10	3.5 - 6.5	1501021B-01	10	3.5 - 6.5	1501021C-01
	6.5 - 9.5	1501021A-02		6.5 - 9.5	1501021B-02		6.5 - 9.5	1501021C-02
12	3.5 - 6.5	1501221A-01	12	3.5 - 6.5	1501221B-01	12	3.5 - 6.5	1501221C-01
	6.5 - 9.5	1501221A-02		6.5 - 9.5	1501221B-02		6.5 - 9.5	1501221C-02
14	3.5 - 6.5	1501421A-01	14	3.5 - 6.5	1501421B-01	14	3.5 - 6.5	1501421C-01
	6.5 - 9.5	1501421A-02		6.5 - 9.5	1501421B-02		6.5 - 9.5	1501421C-02
18	3.5 - 6.5	1501821A-01	18	3.5 - 6.5	1501821B-01	18	3.5 - 6.5	1501821C-01
	6.5 - 9.5	1501821A-02		6.5 - 9.5	1501821B-02		6.5 - 9.5	1501821C-02

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG		0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG	0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	3.5mm - 6.5mm, 6.5mm - 9.5mm												
Environmental Protection	IP68					IP67					IP67		
Mechanical Life	500 mating cycles												
Operating Temperature	-45°C - 105°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	5A	5A	2A

● Middle Series , Male Connector & Female Pin

Description

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Figure

Molded, 180°
Screw Type, Solder



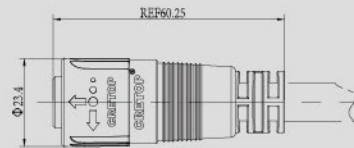
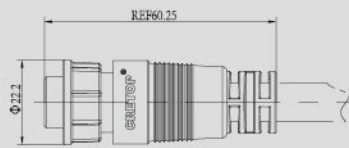
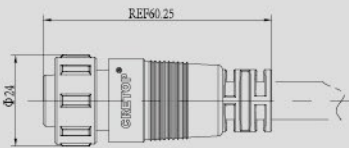
Molded, 180°
Lock Bayonet Type, Solder



Molded, 180°
Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	Max. 10.8	1500222A-01	2	Max. 10.8	1500222B-01	2	Max. 10.8	1500222C-01
3	Max. 10.8	1500322A-01	3	Max. 10.8	1500322B-01	3	Max. 10.8	1500322C-01
4	Max. 10.8	1500422A-01	4	Max. 10.8	1500422B-01	4	Max. 10.8	1500422C-01
5	Max. 10.8	1500522A-01	5	Max. 10.8	1500522B-01	5	Max. 10.8	1500522C-01
6	Max. 10.8	1500622A-01	6	Max. 10.8	1500622B-01	6	Max. 10.8	1500622C-01
7	Max. 10.8	1500722A-01	7	Max. 10.8	1500722B-01	7	Max. 10.8	1500722C-01
8	Max. 10.8	1500822A-01	8	Max. 10.8	1500822B-01	8	Max. 10.8	1500822C-01
3+5	Max. 10.8	1530522A-01	3+5	Max. 10.8	1530522B-01	3+5	Max. 10.8	1530522C-01
9	Max. 10.8	1500922A-01	9	Max. 10.8	1500922B-01	9	Max. 10.8	1500922C-01
10	Max. 10.8	1501022A-01	10	Max. 10.8	1501022B-01	10	Max. 10.8	1501022C-01
12	Max. 10.8	1501222A-01	12	Max. 10.8	1501222B-01	12	Max. 10.8	1501222C-01
14	Max. 10.8	1501422A-01	14	Max. 10.8	1501422B-01	14	Max. 10.8	1501422C-01
18	Max. 10.8	1501822A-01	18	Max. 10.8	1501822B-01	18	Max. 10.8	1501822C-01

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG		0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG	0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	Max. 10.8mm												
Environmental Protection	IP67												
Mechanical Life	500 mating cycles												
Operating Temperature	-40°C - 80°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	5A	5A	2A

MIDDLE SERIES

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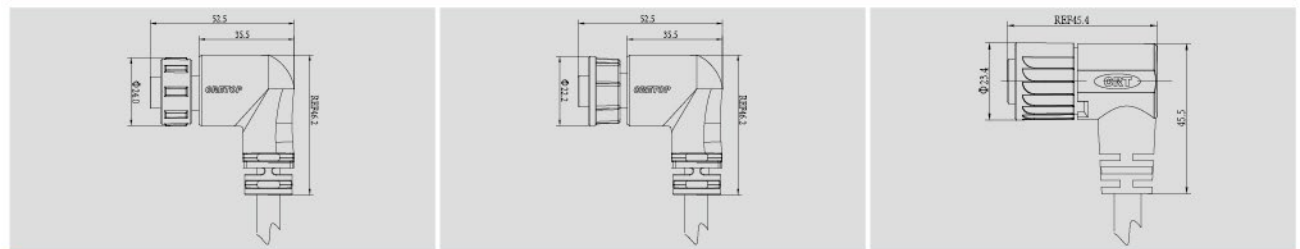
● Middle Series , Male Connector & Female Pin

Description CRETOP®

Figure



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	Max. 10.8	1500224A-01	2	Max. 10.8	1500224B-01	2	Max. 10.8	1500224C-01
3	Max. 10.8	1500324A-01	3	Max. 10.8	1500324B-01	3	Max. 10.8	1500324C-01
4	Max. 10.8	1500424A-01	4	Max. 10.8	1500424B-01	4	Max. 10.8	1500424C-01
5	Max. 10.8	1500524A-01	5	Max. 10.8	1500524B-01	5	Max. 10.8	1500524C-01
6	Max. 10.8	1500624A-01	6	Max. 10.8	1500624B-01	6	Max. 10.8	1500624C-01
7	Max. 10.8	1500724A-01	7	Max. 10.8	1500724B-01	7	Max. 10.8	1500724C-01
8	Max. 10.8	1500824A-01	8	Max. 10.8	1500824B-01	8	Max. 10.8	1500824C-01
3+5	Max. 10.8	1530524A-01	3+5	Max. 10.8	1530524B-01	3+5	Max. 10.8	1530524C-01
9	Max. 10.8	1500924A-01	9	Max. 10.8	1500924B-01	9	Max. 10.8	1500924C-01
10	Max. 10.8	1501024A-01	10	Max. 10.8	1501024B-01	10	Max. 10.8	1501024C-01
12	Max. 10.8	1501224A-01	12	Max. 10.8	1501224B-01	12	Max. 10.8	1501224C-01
14	Max. 10.8	1501424A-01	14	Max. 10.8	1501424B-01	14	Max. 10.8	1501424C-01
18	Max. 10.8	1501824A-01	18	Max. 10.8	1501824B-01	18	Max. 10.8	1501824C-01

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG	1.0mm ² /17AWG	0.75mm ² 18AWG	0.34mm ² /22AWG	0.34mm ² /22AWG	1.0mm ² +0.25mm ² /18AWG+24AWG	0.34mm ² /22AWG	0.25mm ² /24AWG					
Panel Thickness	Max. 10.8mm												
Environmental Protection	IP67												
Mechanical Life	500 mating cycles												
Operating Temperature	-45°C - 105°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	5A	5A	2A

● Middle Series , Female Connector & Male Pin

Description

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Figure

Field Installable, 180°
Screw Type, Solder



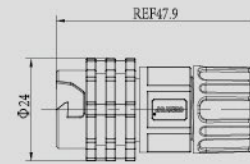
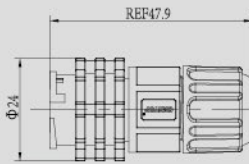
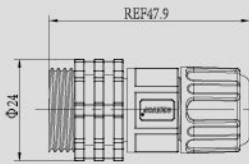
Field Installable, 180°
Lock Bayonet Type, Solder



Field Installable, 180°
Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	3.5 - 6.5	1500231A-01 .95..	2	3.5 - 6.5	1500231B-01 .95..	2	3.5 - 6.5	1500231C-01 .95..
	6.5 - 9.5	1500231A-02 .95..		6.5 - 9.5	1500231B-02 .95..		6.5 - 9.5	1500231C-02 .95..
3	3.5 - 6.5	1500331A-01 .95..	3	3.5 - 6.5	1500331B-01 .95..	3	3.5 - 6.5	1500331C-01 .95..
	6.5 - 9.5	1500331A-02 .95..		6.5 - 9.5	1500331B-02 .95..		6.5 - 9.5	1500331C-02 .95..
4	3.5 - 6.5	1500431A-01	4	3.5 - 6.5	1500431B-01	4	3.5 - 6.5	1500431C-01
	6.5 - 9.5	1500431A-02		6.5 - 9.5	1500431B-02		6.5 - 9.5	1500431C-02
5	3.5 - 6.5	1500531A-01 .95..	5	3.5 - 6.5	1500531B-01 .95..	5	3.5 - 6.5	1500531C-01 .95..
	6.5 - 9.5	1500531A-02 .95..		6.5 - 9.5	1500531B-02 .95..		6.5 - 9.5	1500531C-02 .95..
6	3.5 - 6.5	1500631A-01 .95..	6	3.5 - 6.5	1500631B-01 .95..	6	3.5 - 6.5	1500631C-01 .95..
	6.5 - 9.5	1500631A-02 .95..		6.5 - 9.5	1500631B-02 .95..		6.5 - 9.5	1500631C-02 .95..
7	3.5 - 6.5	1500731A-01 .95..	7	3.5 - 6.5	1500731B-01 .95..	7	3.5 - 6.5	1500731C-01 .95..
	6.5 - 9.5	1500731A-02 .95..		6.5 - 9.5	1500731B-02 .95..		6.5 - 9.5	1500731C-02 .95..
8	3.5 - 6.5	1500831A-01 .95..	8	3.5 - 6.5	1500831B-01 .95..	8	3.5 - 6.5	1500831C-01 .95..
	6.5 - 9.5	1500831A-02 .95..		6.5 - 9.5	1500831B-02 .95..		6.5 - 9.5	1500831C-02 .95..
3+5	3.5 - 6.5	1530531A-01	3+5	3.5 - 6.5	1530531B-01	3+5	3.5 - 6.5	1530531C-01
	6.5 - 9.5	1530531A-02		6.5 - 9.5	1530531B-02		6.5 - 9.5	1530531C-02
9	3.5 - 6.5	1500931A-01 .95..	9	3.5 - 6.5	1500931B-01 .95..	9	3.5 - 6.5	1500931C-01 .95..
	6.5 - 9.5	1500931A-02 .95..		6.5 - 9.5	1500931B-02 .95..		6.5 - 9.5	1500931C-02 .95..
10	3.5 - 6.5	1501031A-01 .95..	10	3.5 - 6.5	1501031B-01 .95..	10	3.5 - 6.5	1501031C-01 .95..
	6.5 - 9.5	1501031A-02 .95..		6.5 - 9.5	1501031B-02 .95..		6.5 - 9.5	1501031C-02 .95..
12	3.5 - 6.5	1501231A-01	12	3.5 - 6.5	1501231B-01	12	3.5 - 6.5	1501231C-01
	6.5 - 9.5	1501231A-02		6.5 - 9.5	1501231B-02		6.5 - 9.5	1501231C-02
14	3.5 - 6.5	1501431A-01	14	3.5 - 6.5	1501431B-01	14	3.5 - 6.5	1501431C-01
	6.5 - 9.5	1501431A-02		6.5 - 9.5	1501431B-02		6.5 - 9.5	1501431C-02
18	3.5 - 6.5	1501831A-01	18	3.5 - 6.5	1501831B-01	18	3.5 - 6.5	1501831C-01
	6.5 - 9.5	1501831A-02		6.5 - 9.5	1501831B-02		6.5 - 9.5	1501831C-02

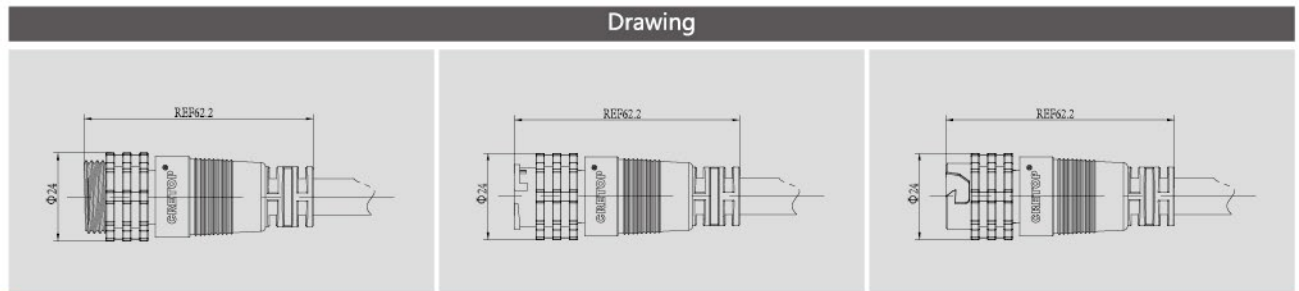
Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG		0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG	0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	3.5mm - 6.5mm, 6.5mm - 9.5mm												
Environmental Protection	IP68					IP67				IP67			
Mechanical Life	500 mating cycles												
Operating Temperature	-45°C - 105°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	5A	5A	2A

MIDDLE SERIES

● Middle Series , Female Connector & Male Pin

Description CRETOP®



Part-No.

Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number	Contacts	Cable Range(mm)	Part-Number
2	Max. 10.8	1500232A-01	2	Max. 10.8	1500232B-01	2	Max. 10.8	1500232C-01
3	Max. 10.8	1500332A-01	3	Max. 10.8	1500332B-01	3	Max. 10.8	1500332C-01
4	Max. 10.8	1500432A-01	4	Max. 10.8	1500432B-01	4	Max. 10.8	1500432C-01
5	Max. 10.8	1500532A-01	5	Max. 10.8	1500532B-01	5	Max. 10.8	1500532C-01
6	Max. 10.8	1500632A-01	6	Max. 10.8	1500632B-01	6	Max. 10.8	1500632C-01
7	Max. 10.8	1500732A-01	7	Max. 10.8	1500732B-01	7	Max. 10.8	1500732C-01
8	Max. 10.8	1500832A-01	8	Max. 10.8	1500832B-01	8	Max. 10.8	1500832C-01
3+5	Max. 10.8	1530532A-01	3+5	Max. 10.8	1530532B-01	3+5	Max. 10.8	1530532C-01
9	Max. 10.8	1500932A-01	9	Max. 10.8	1500932B-01	9	Max. 10.8	1500932C-01
10	Max. 10.8	1501032A-01	10	Max. 10.8	1501032B-01	10	Max. 10.8	1501032C-01
12	Max. 10.8	1501232A-01	12	Max. 10.8	1501232B-01	12	Max. 10.8	1501232C-01
14	Max. 10.8	1501432A-01	14	Max. 10.8	1501432B-01	14	Max. 10.8	1501432C-01
18	Max. 10.8	1501832A-01	18	Max. 10.8	1501832B-01	18	Max. 10.8	1501832C-01

Specifications

Number of Contacts	2	3	4	5	6	7	8	3+5	9	10	12	14	18
Wire Gauge	2.5mm ² /14AWG		1.0mm ² /17AWG	0.75mm ² /18AWG		0.34mm ² /22AWG		1.0mm ² +0.25mm ² /18AWG+24AWG	0.34mm ² /22AWG	0.25mm ² /24AWG			
Panel Thickness	Max. 10.8mm												
Environmental Protection	IP67												
Mechanical Life	500 mating cycles												
Operating Temperature	-40°C - 80°C												
Voltage Rating	300V	300V	300V	125V	125V	60V	60V	125+30V	60V	30V	30V	30V	30V
Rated Current(40°C)	20A	20A	15A	10A	10A	5A	5A	15+2A	5A	5A	5A	5A	2A

Large Series

1.Large Series , Assembly Instruction	P77
2.Large Series , Panel Mount & Female Pin.....	P78
3.Large Series , Male Connector & Male Pin.....	P79-P80
4.Large Series , Female Connector & Female Pin.....	P81-P82
5.Large Series , Panel Mount & Male Pin	P83
6.Large Series , Male Connector & Female Pin.....	P84-P85
7.Large Series , Female Connector & Male Pin.....	P86-P87



Assembly/Wiring Instructions

LARGE Series

CRETOP®

- 1 Strip and prepare Cable



- 2 Thread Seals Nut, Seals Ring, Clamp Ring and O-Ring onto the cable.



- 3 Solder wire.



- 4 Assemble O-Ring into Clamp ring.



- 5 Assemble Clamp Ring to Housing



- 6 Put Seals Ring to the Clamp Ring.



- 7 Assemble Seals Nut and Clamp Ring.



● Large Series , Panel Mount & Female Pin

Description

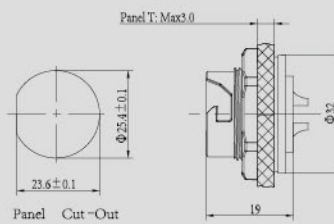
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Figure

Front Panel Mount
Push Lock Type, Solder



Drawing



Part-No.

Contacts	Part-Number	
2	1600265C-01	
3(20A)	1600365C-01	
3(50A)	1600365C-02	
9	1600965C-01	
18	1601865C-01	
3+9	1630965C-01	
3+11	1631165C-01	
2+13	1621365C-01	

Specifications

Number of Contacts	2	3	3	9	18	3+9	3+11	2+13
Wire Gauge	4.0mm ² /12AWG		8.4mm ² /8AWG	0.75mm ² /18AWG	0.3mm ² /22AWG	2.5mm ² +0.2mm ² /12AWG+24AWG		
Panel Thickness	Max. 5.0mm			Max. 5.0mm		Max. 3.0mm		
Environmental Protection	IP67/IP68							
Mechanical Life	500 mating cycles							
Operating Temperature	-45°C - 105°C							
Voltage Rating	300V	300V	300V	125V	125V	300V	300V	300V
Rated Current(40°C)	20A	20A	50A	5A	5A	20A+5A	20A+5A	20A+5A

LARGE SERIES

CRETOP®

● Large Series , Male Connector & Male Pin

Description

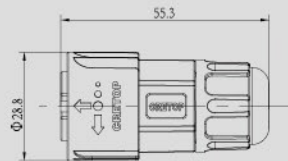
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Figure

Field Installable, 180°
Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	
2	4.5-6.5	1600211C-01	AW
	6.5-10.5	1600211C-02	AW
3(20A)	4.5-6.5	1600311C-01	AW
	6.5-10.5	1600311C-02	AW
3(50A)	4.5-6.5	1600311C-03	
	6.5-10.5	1600311C-04	
9	4.5-6.5	1600911C-01	AW
	6.5-10.5	1600911C-02	AW
18	4.5-6.5	1601811C-01	AW
	6.5-10.5	1601811C-02	AW
3+9	4.5-6.5	1630911C-01	AW
	6.5-10.5	1630911C-02	AW
3+11	4.5-6.5	1631111C-01	AW
	6.5-10.5	1631111C-02	AW
2+13	4.5-6.5	1621311C-01	
	6.5-10.5	1621311C-02	

Specifications

Number of Contacts	2	3	3	9	18	3+9	3+11	2+13
Wire Gauge	4.0mm ² /12AWG		8.4mm ² /8AWG	0.75mm ² /18AWG	0.3mm ² /22AWG	2.5mm ² +0.2mm ² /12AWG+24AWG		
Panel Thickness	4.5mm - 6.5mm, 6.5mm - 10.5mm							
Environmental Protection	IP67/IP68							
Mechanical Life	500 mating cycles							
Operating Temperature	-45°C - 105°C							
Voltage Rating	300V	300V	300V	125V	125V	300V	300V	300V
Rated Current(40°C)	20A	20A	50A	5A	5A	20A+5A	20A+5A	20A+5A

● Large Series , Male Connector & Male Pin

Description

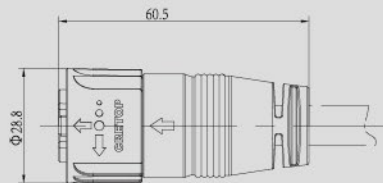
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Figure

Molded With Cable, 180° Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	
2	Max. 13.0	1600212C-01	
3(20A)	Max. 13.0	1600312C-01	
3(50A)	Max. 13.0	1600312C-02	
9	Max. 13.0	1600912C-01	
18	Max. 13.0	1601812C-01	
3+9	Max. 13.0	1630912C-01	
3+11	Max. 13.0	1631112C-01	
2+13	Max. 13.0	1621312C-01	

Specifications

Number of Contacts	2	3	3	9	18	3+9	3+11	2+13
Wire Gauge	4.0mm ² /12AWG		8.4mm ² /8AWG	0.75mm ² /18AWG	0.3mm ² /22AWG	2.5mm ² +0.2mm ² /12AWG+24AWG		
Panel Thickness	4.5mm - 13.0mm							
Environmental Protection	IP67/IP68							
Mechanical Life	500 mating cycles							
Operating Temperature	-40°C - 80°C							
Voltage Rating	300V	300V	300V	125V	125V	300V	300V	300V
Rated Current(40°C)	20A	20A	50A	5A	5A	20A+5A	20A+5A	20A+5A

LARGE SERIES

CRETOP®

● Large Series , Female Connector & Female Pin

Description

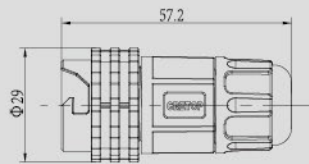
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Figure

Field Installable, 180°
Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	
2	4.5-6.5	1600241C-01	.9V..
	6.5-10.5	1600241C-02	.9V..
3(20A)	4.5-6.5	1600341C-01	.9V..
	6.5-10.5	1600341C-02	.9V..
3(50A)	4.5-6.5	1600341C-03	.9V..
	6.5-10.5	1600341C-04	.9V..
9	4.5-6.5	1600941C-01	.9V..
	6.5-10.5	1600941C-02	.9V..
18	4.5-6.5	1601841C-01	.9V..
	6.5-10.5	1601841C-02	.9V..
3+9	4.5-6.5	1630941C-01	.9V..
	6.5-10.5	1630941C-02	.9V..
3+11	4.5-6.5	1631141C-01	.9V..
	6.5-10.5	1631141C-02	.9V..
2+13	4.5-6.5	1621341C-01	.9V..
	6.5-10.5	1621341C-02	.9V..

Specifications

Number of Contacts	2	3	3	9	18	3+9	3+11	2+13
Wire Gauge	4.0mm ² /12AWG		8.4mm ² /8AWG	0.75mm ² /18AWG	0.3mm ² /22AWG	2.5mm ² +0.2mm ² /12AWG+24AWG		
Panel Thickness	4.5mm - 6.5mm, 6.5mm - 10.5mm							
Environmental Protection	IP67/IP68							
Mechanical Life	500 mating cycles							
Operating Temperature	-45°C - 105°C							
Voltage Rating	300V	300V	300V	125V	125V	300V	300V	300V
Rated Current(40°C)	20A	20A	50A	5A	5A	20A+5A	20A+5A	20A+5A

● Large Series , Female Connector & Female Pin

Description

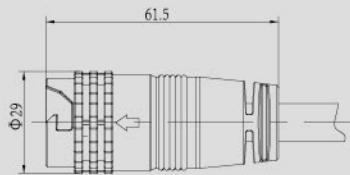
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Figure

Molded With Cable, 180° Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	
2	Max. 13.0	1600242C-01	
3(20A)	Max. 13.0	1600342C-01	
3(50A)	Max. 13.0	1600342C-02	
9	Max. 13.0	1600942C-01	
18	Max. 13.0	1601842C-01	
3+9	Max. 13.0	1630942C-01	
3+11	Max. 13.0	1631142C-01	
2+13	Max. 13.0	1621342C-01	

Specifications

Number of Contacts	2	3	3	9	18	3+9	3+11	2+13
Wire Gauge	4.0mm ² /12AWG		8.4mm ² /8AWG	0.75mm ² /18AWG	0.3mm ² /22AWG	2.5mm ² +0.2mm ² /12AWG+24AWG		
Panel Thickness	4.5mm - 13.0mm							
Environmental Protection	IP67/IP68							
Mechanical Life	500 mating cycles							
Operating Temperature	-45°C - 80°C							
Voltage Rating	300V	300V	300V	125V	125V	300V	300V	300V
Rated Current(40°C)	20A	20A	50A	5A	5A	20A+5A	20A+5A	20A+5A

LARGE SERIES

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● Large Series , Panel Mount & Male Pin

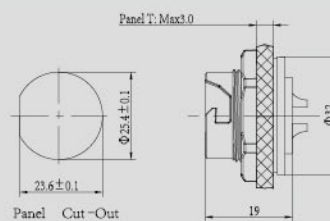
Description

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Figure

 Front Panel Mount
Push Lock Type, Solder


Drawing



Part-No.

Contacts	Part-Number	
2	1600255C-01	
3(20A)	1600355C-01	
3(50A)	1600355C-02	
9	1600955C-01	
18	1601855C-01	
3+9	1630955C-01	
3+11	1631155C-01	
24	1602455C-01	

Specifications

Number of Contacts	2	3	3	9	18	24	3+9	3+11
Wire Gauge	4.0mm ² /12AWG		8.4mm ² /8AWG	0.75mm ² /18AWG	0.3mm ² /22AWG		2.5mm ² +0.2mm ² /12AWG+24AWG	
Panel Thickness	Max. 5.0mm			Max. 5.0mm		Max. 3.0mm		
Environmental Protection	IP67/IP68							
Mechanical Life	500 mating cycles							
Operating Temperature	-45°C - 105°C							
Voltage Rating	300V	300V	300V	125V	125V	300V	300V	
Rated Current(40°C)	20A	20A	50A	5A	5A	20A+5A	20A+5A	

● Large Series , Male Connector & Female Pin

Description

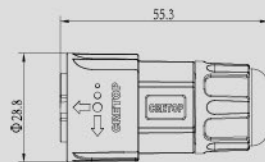
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Figure

Field Installable, 180° Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number
2	4.5-6.5	1600221C-01
	6.5-10.5	1600221C-02
3(20A)	4.5-6.5	1600321C-01
	6.5-10.5	1600321C-02
3(50A)	4.5-6.5	1600321C-03
	6.5-10.5	1600321C-04
9	4.5-6.5	1600921C-01
	6.5-10.5	1600921C-02
18	4.5-6.5	1601821C-01
	6.5-10.5	1601821C-02
3+9	4.5-6.5	1630921C-01
	6.5-10.5	1630921C-02
3+11	4.5-6.5	1631121C-01
	6.5-10.5	1631121C-02
24	6.5-10.5	1602421C-01

Specifications

Number of Contacts	2	3	3	9	18	24	3+9	3+11
Wire Gauge	4.0mm ² /12AWG		8.4mm ² /8AWG	0.75mm ² /18AWG	0.3mm ² /22AWG		2.5mm ² +0.2mm ² /12AWG+24AWG	
Panel Thickness	4.5mm - 6.5mm, 6.5mm - 10.5mm							
Environmental Protection	IP67/IP68							
Mechanical Life	500 mating cycles							
Operating Temperature	-45°C - 105°C							
Voltage Rating	300V	300V	300V	125V	125V	125V	300V	300V
Rated Current(40°C)	20A	20A	50A	5A	5A	5A	20A+5A	20A+5A

LARGE SERIES

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● Large Series , Male Connector & Female Pin

Description

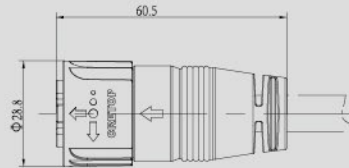
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Figure

Molded With Cable, 180°
Push Lock Type, Solder



Drawing



Part-No.

Contacts	Part-Number	
2	1600222C-01	
3(20A)	1600322C-01	
3(50A)	1600322C-02	
9	1600922C-01	
18	1601822C-01	
3+9	1630922C-01	
3+11	1631122C-01	
24	1602422C-01	

Specifications

Number of Contacts	2	3	3	9	18	24	3+9	3+11
Wire Gauge	4.0mm ² /12AWG		8.4mm ² /8AWG	0.75mm ² /18AWG	0.3mm ² /22AWG		2.5mm ² +0.2mm ² /12AWG+24AWG	
Panel Thickness	4.5mm - 13.0mm							
Environmental Protection	IP67/IP68							
Mechanical Life	500 mating cycles							
Operating Temperature	-40°C - 80°C							
Voltage Rating	300V	300V	300V	125V	125V	125V	300V	300V
Rated Current(40°C)	20A	20A	50A	5A	5A	5A	20A+5A	20A+5A

● Large Series , Female Connector & Male Pin

Description

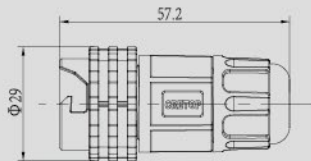
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Figure

Field Installable, 180° Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number
2	4.5-6.5	1600231C-01
	6.5-10.5	1600231C-02
3(20A)	4.5-6.5	1600331C-01
	6.5-10.5	1600331C-02
3(50A)	4.5-6.5	1600331C-03
	6.5-10.5	1600331C-04
9	4.5-6.5	1600931C-01
	6.5-10.5	1600931C-02
18	4.5-6.5	1601831C-01
	6.5-10.5	1601831C-02
3+9	4.5-6.5	1630931C-01
	6.5-10.5	1630931C-02
3+11	4.5-6.5	1631131C-01
	6.5-10.5	1631131C-02
24	6.5-10.5	1602431C-01

Specifications

Number of Contacts	2	3	3	9	18	24	3+9	3+11
Wire Gauge	4.0mm ² /12AWG		8.4mm ² /8AWG	0.75mm ² /18AWG	0.3mm ² /22AWG		2.5mm ² +0.2mm ² /12AWG+24AWG	
Panel Thickness	4.5mm - 6.5mm, 6.5mm - 10.5mm							
Environmental Protection	IP67/IP68							
Mechanical Life	500 mating cycles							
Operating Temperature	-45°C - 105°C							
Voltage Rating	300V	300V	300V	125V	125V	125V	300V	300V
Rated Current(40°C)	20A	20A	50A	5A	5A	5A	20A+5A	20A+5A

LARGE SERIES

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● Large Series , Female Connector & Male Pin

Description

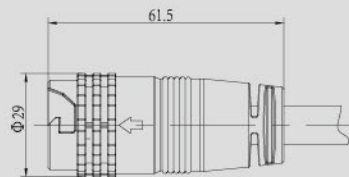
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Figure

Molded With Cable, 180°
Push Lock Type, Solder



Drawing



Part-No.

Contacts	Cable Range(mm)	Part-Number	
2	Max. 13.0	1600232C-01	
3(20A)	Max. 13.0	1600332C-01	
3(50A)	Max. 13.0	1600332C-02	
9	Max. 13.0	1600932C-01	
18	Max. 13.0	1601832C-01	
3+9	Max. 13.0	1630932C-01	
3+11	Max. 13.0	1631132C-01	
24	Max. 13.0	1602432C-01	

Specifications

Number of Contacts	2	3	3	9	18	24	3+9	3+11
Wire Gauge	4.0mm ² /12AWG		8.4mm ² /8AWG	0.75mm ² /18AWG	0.3mm ² /22AWG		2.5mm ² +0.2mm ² /12AWG+24AWG	
Panel Thickness	4.5mm - 13.0mm							
Environmental Protection	IP67/IP68							
Mechanical Life	500 mating cycles							
Operating Temperature	-40°C - 80°C							
Voltage Rating	300V	300V	300V	125V	125V	125V	300V	300V
Rated Current(40°C)	20A	20A	50A	5A	5A	5A	20A+5A	20A+5A

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