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Multi POS High Current Plastic Shell Connector with Shield (REG1)

Features/Application

- REG1 series connectors provide stable high voltage power transmission among EV/HEV systems.
- Outer shell is molded in thermoplastics with excellent flame-retartant and high temperature resistant ability. This REG1 series has many options (straight and right angle), and comparing same sized metal connectors, it has lighter weight, small size and easy installation.
- Locking handle and secondary locking structure. This connector requires smaller operation space, especially for those application environment with limited space.
- Current rating range 125A-250A, contact specification Φ9.1mm, supporting cable from 25mm2 ~70mm2 (section) to meet various electrical performance. Multi anti-misplug key position avoiding mistakes when same series connectors are applied on same devices.

Technical Specification

Electrical Property

Current rating:

Contact	Cable Range	Current Rating	Cable type	Shielding Line Diameter	Non-Shielding Line Diameter
Φ9.1mm	25mm²	120A	Shield or Non-Shield is optional	ϕ 12.2 ± 0.3	ϕ 11.1 ± 0.3
	35mm²	180A	Shield or Non-Shield is optional	ϕ 14.5 ± 0.3	ϕ 12.2 ± 0.3
	50mm²	220A	Shield or Non-Shield is optional	ϕ 15.9 ± 0.3	ϕ 14.5 ± 0.3
	70mm²	250A	Shield or Non-Shield is optional	ϕ 18.5 ± 0.3	ϕ 15.9 ± 0.3

Voltage Rating: 1000V DC
Withstand Voltage: 5000V AC
Insulation Resistance: 5000mΩ/1000V DC
Shielding: optional
HIVL: YES (HVIL is normal,
Non-HVIL is optional)

Environmental Property

Working Temperature: −40℃~+125℃
Relative Humidity: 95%(40℃)
Salt spray:500h(NaCl 5%)
Sealing: IP68B in mated condition,plug and jack meet IPXXB separately
Flame Retardant Grade: UL94-V0

Mechanical Property

Mating Cycle: ⩾100 times
Vibration: 10~80Hz, amplitude 0.75
81~500Hz, 20g
500~2000Hz, 18g

Material

Shell: thermoplastic flame-retardant
Contact: copper alloy silver plated
Seal: rubber or elastomer

Version: V0 Date: 10/14/2025
File No.: SCN-P81-0

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Ordering Information

Plug

R EG1 – 2 W T P N H –50 – A –TW

- Extensive character
- Cable section 70、50、35、25
- H:HVIL (non–HVIL unmarked)
- Anti–misplug key positon: N、A、B、C
- P: Shielding
- T:Plug
- W: plug right angle straight unmarked
- power contact number: 2
- Serial
- Product Series

NOTE: Plug type is empty plug type without wiring. If you need to purchase wiring components, contact our company technical department before confirming the details of components so as to give the material number of wiring harness components.

Jack

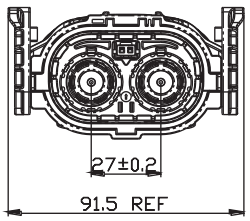
R EG1 – 2 Z P N T H 0.3 – (50) –A–TW

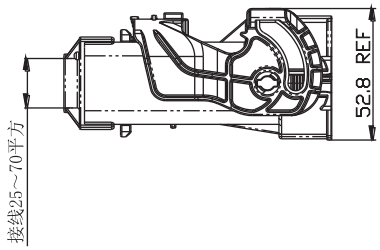
- A: fitting cable≥ 50 square
  B: fitting cable< 50 square
- Recommended cable square number: 25、35、50、70 unmarked in model
- (0.35mm2)HVIL lead length default value 0.12(unit m)
- H:HVIL (non–HVIL unmarked)
- Tail end form of pin:
  Milling flat on both sides of T radial thread hole:
  T1B radial thread hole single side milling flat (1 short 2 long)
- Anti–misplug key positon: N、A、B、C
- P: Shielding (non–shielding unmarked)
- Z：Jack
- power contact number: 2
- Serial
- Product Series

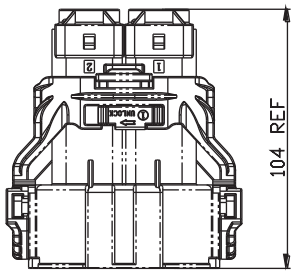
NOTE: Model (50) is not included in the model. In the tail end connection mode of the pin on the socket, T means that the pin on the socket of the connector is in the form of two–sided milling flat (Fig. 3). T1B means that the pin for position 1 is a short pin, while the 2 pin is a long pin, which is flattened on the side (Fig. 4).

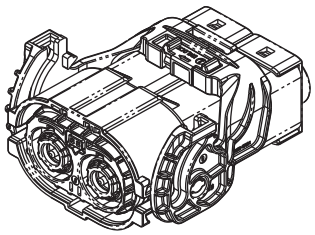
Size

2 POS Straight Plug









Version: V0 Date: 10/14/2025
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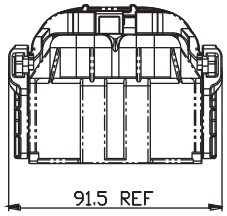
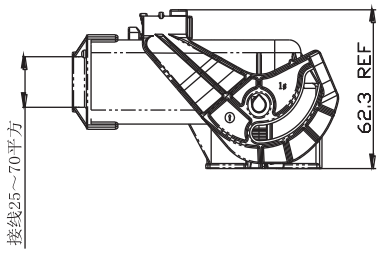
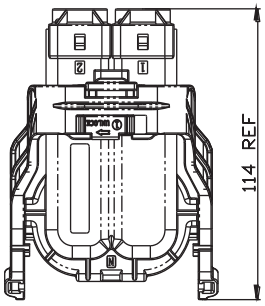
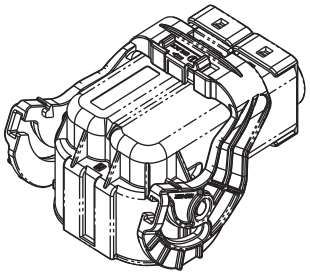
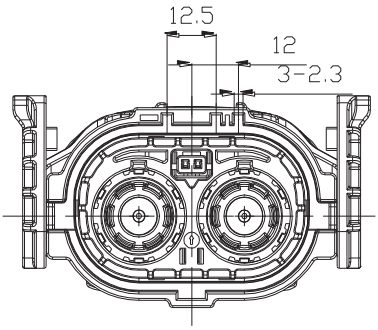




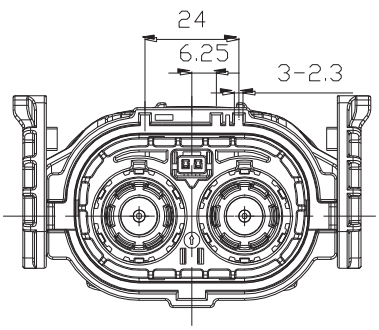




Instruction according to the key position of the plug.



CODE N



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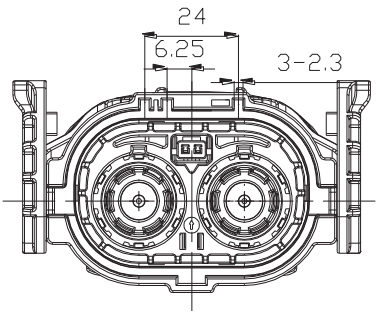

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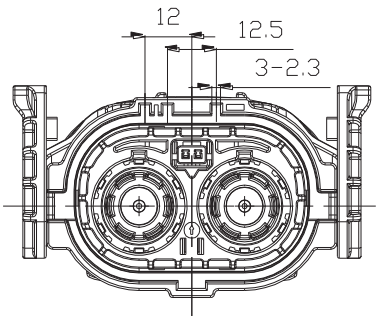

CODE C

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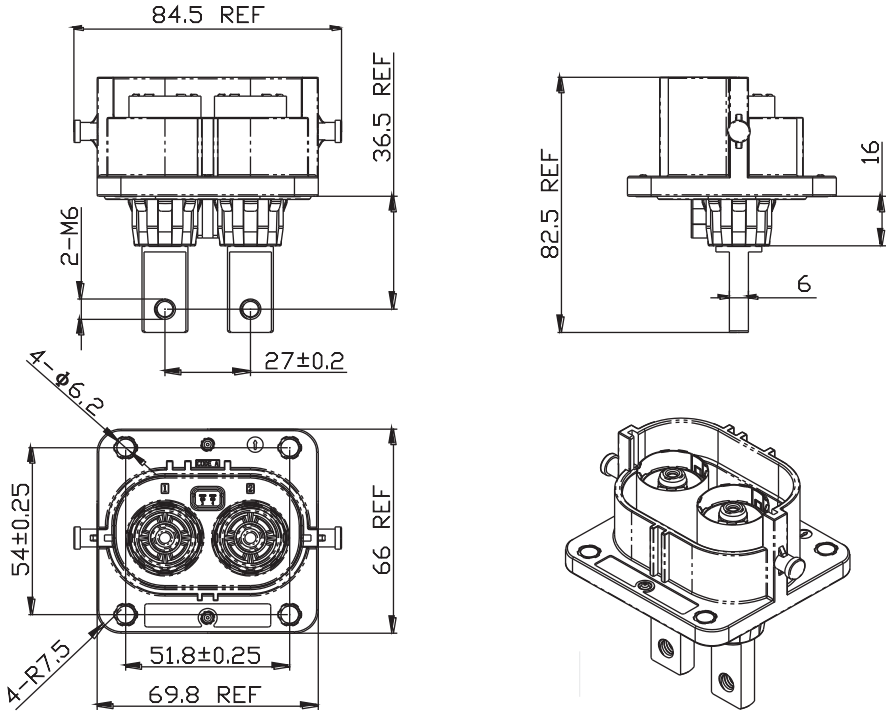
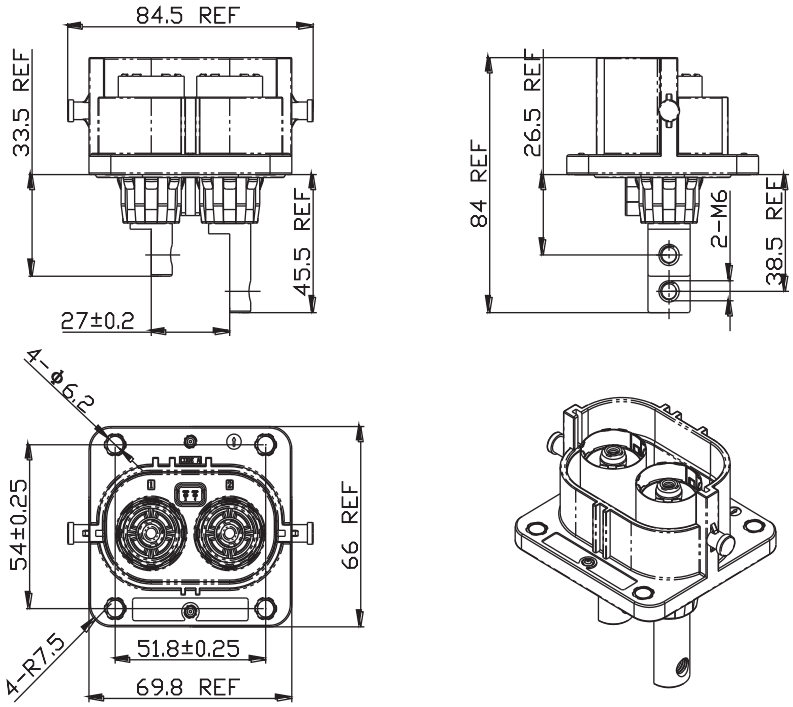
2 POS jack T



2 POS jack T1B



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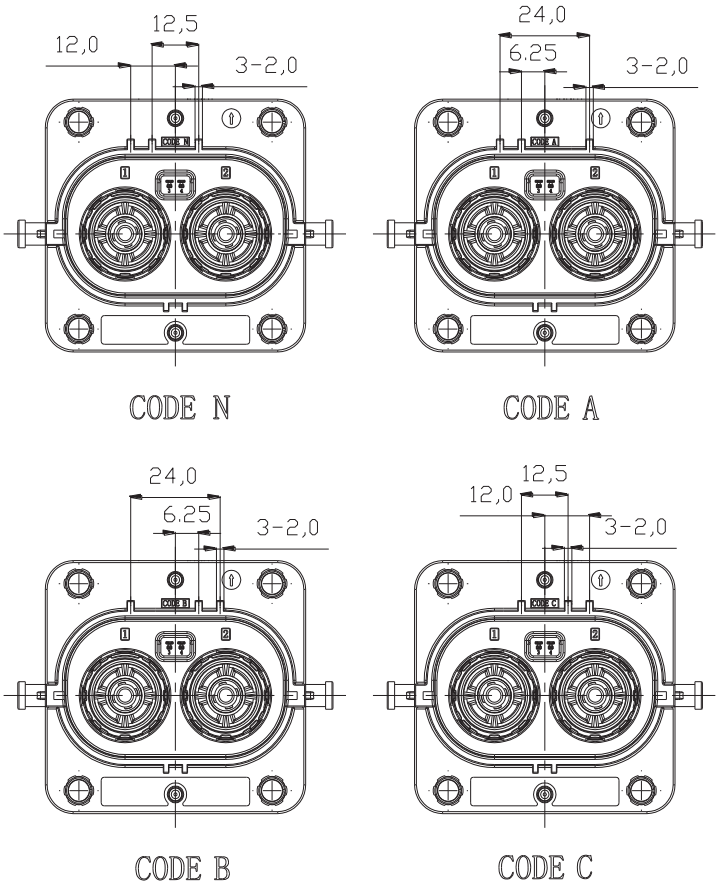
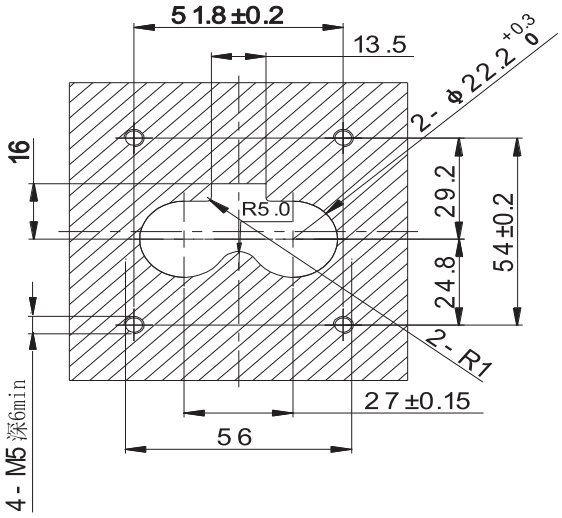
Instruction according to the key position of the socket.



Mounting hole dimension

2 POS Jack(mounting hole dimension when make mistake without panel)



NOTE
1. In order to ensure IP68 protective performance, the roughness of the panel should not be less than 1.6mm, flatness 0.4mm, and the recommended panel thickness should not be less than 3mm.
2. The hole of 4-M5 thread should be blind.

Version: V0 Date: 10/14/2025
File No.: SCN-P81-0