



RECTANGULAR CONNECTOR

SC-TYPE

TERMINAL
BLOCK

B CONNECTOR

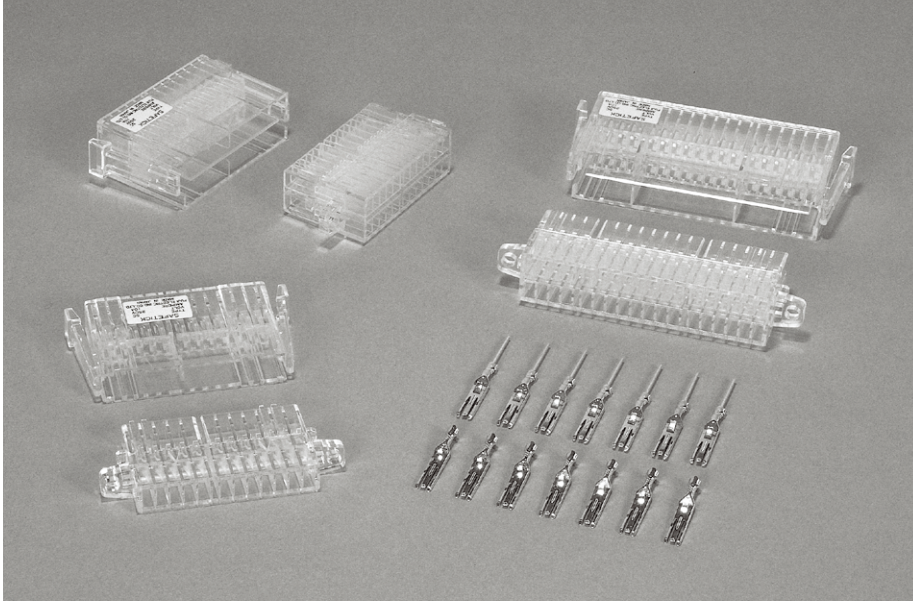
CONTROL
CENTER PARTS

D TEST TERMINAL

E PILOT LAMP &
INDICATOR

F SWITCH

G ELECTRONIC
DEVICES



FEATURES

■ High contact reliability and high conductive material

The contact is made of zinc-free copper alloy with high conductivity. It is also weatherproof and therefore free from season cracks. The surface is tin-plated with whiskerproof treatment.

The contact part is shaped like a three-prong fork so that contact pressure is mutually given to the opposite contact part.

High reliability can be achieved even if this connector is used for very frequent connection / disconnections or a low-voltage circuit.

■ Transparent housing

The housing is made of transparent polycarbonate resin, which allows easy checking of contact status.

■ Tight housing connection lock

12, 24, and 36 pole housings are available. The circuit can be freely designed by inserting necessary contacts.

■ Prevention of wrong insertion

The housing is provided with a filter that prevents wrong insertion. No insertion is possible in the opposite direction. Of different pole types cannot contact each other. For example, 12 pole type cannot connect to 24 and 36 pole type.

SPECIFICATIONS (RATINGS, PERFORMANCE)

Specification	Type	SC-PS12C	SC-PS24C	SC-PS36C
Rated insulation voltage (UI)		250V		
Rated current-carrying capacity (Ith)		10A (15A when a single pole is used)		
Applicable wire size		0.75mm ² to 2.0mm ²		
Withstand voltage		(Live part to assembly mounting panel) 2,500V AC / 1 min. / (Between live parts) 2,500V AC / 1 min.		
Lightning impulse		(Between live parts and mounting panel) ±7kV / 3 times for each pole (1.2 / 50μs) (Between live parts) ±4.5kV / 3 times for each pole (1.2 / 50μs)		
Short-time current		200A 2 sec.		
Contact resistance		Between poles 10mΩ max. (initial value)		
Shock resistance		50 G or more / each axial direction		
Operating temperature		-20 to 50°C		
Storing temperature		-40 to 85°C		
Relative humidity		85% max.		
Altitude		2,000 m max.		



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HOW TO ORDER

To place an order for a non-combination product, use the corresponding model on the next page.
An order for contacts alone (SC-C) is subject to units of bags (each containing 25 pieces).

SC-PS12C

Basic type Plug Socket

Contact

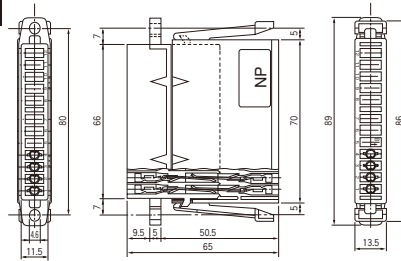
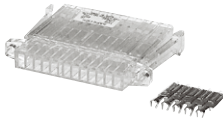
Code	Description
C	Standard contact
LC	Contact for wire wrapping

Pole No.

Code	Description
12	12 poles
24	24 poles
36	36 poles

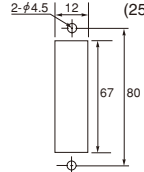
PLUG AND SOCKET DRAWING

SC-PS12C (12 poles)

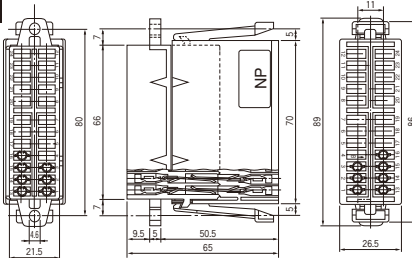
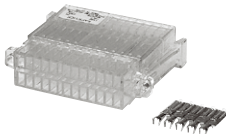


Combination product

- SC-P12 (Plug) 1 pc.
- SC-S12 (Socket) 1 pc.
- SC-C (Contact) 1 bag.

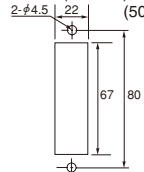


SC-PS24C (24 poles)

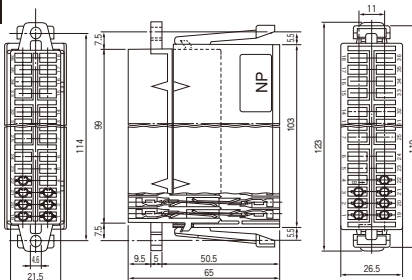


Combination product

- SC-P24 (Plug) 1 pc.
- SC-S24 (Socket) 1 pc.
- SC-C (Contact) 2 bags.

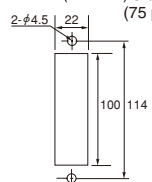


SC-PS36C (36 poles)














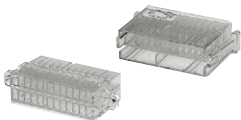



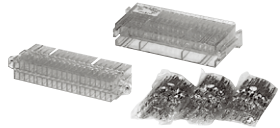


Combination product

- SC-P36 (Plug) 1 pc.
- SC-S36 (Socket) 1 pc.
- SC-C (Contact) 3 bags.



STANDARD PRODUCTS

	12 poles	24 poles	36 poles
Plug	SC-P12 	SC-P24 	SC-P36 
Socket	SC-S12 	SC-S24 	SC-S36 
Contact	SC-C(containing 25 pcs) x1 	SC-C(containing 25 pcs) x2 	SC-C(containing 25 pcs) x3 
Wire wrapping contact	SC-LC(containing 25 pcs) x1 	SC-LC(containing 25 pcs) x2 	SC-LC(containing 25 pcs) x3 
Set of plug and socket	SC-PS12 	SC-PS24 	SC-PS36 
Set of wire wrapping contact, plug, and socket	SC-PS12LC* 	SC-PS24LC* 	SC-PS36LC* 

* For contacts for wire wrapping on one side only, designate (P) or (S) at the end.

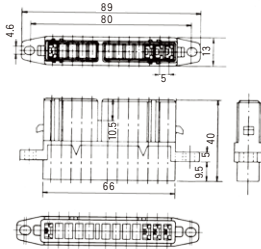


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SC-TYPE

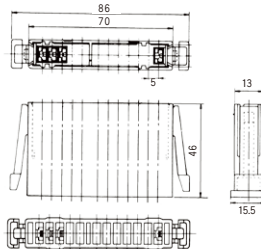
DRAWING

SC-P12 (12-pole plug)

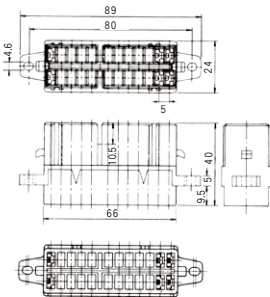


The mounting holes are shown on B3.

SC-S12 (12-pole socket)

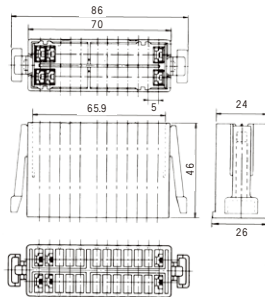


SC-P24 (24-pole plug)

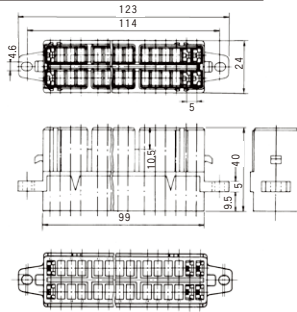


The mounting holes are shown on B3.

SC-S24 (24-pole socket)

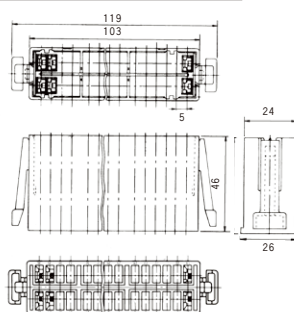


SC-P36 (36-pole plug)

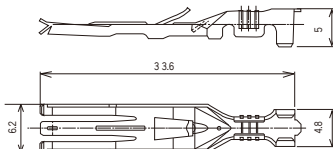


The mounting holes are shown on B3.

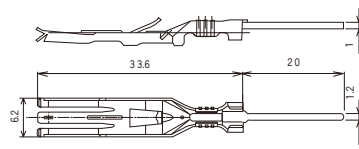
SC-S36 (36-pole socket)



SC-C (Standard contact)

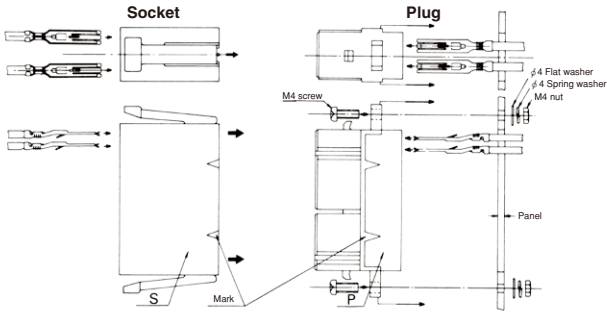


SC-LC (Contact for wire wrapping)



HANDLING

Mounting method

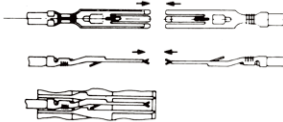


* No screws are provided.

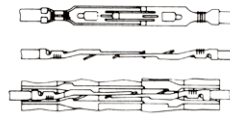
Structure of contact

The same contact can be used commonly for either the plug or the socket.
The 3-point contact maintains much higher contact stability than the former type for a long period of time.

Before contact part is inserted.



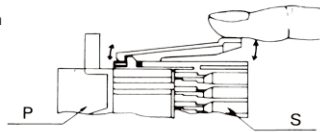
After contact part is inserted.



Disconnection locking mechanism

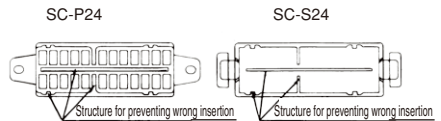
All models (S12, S24, S36) are provided with housing disconnection lock.

To unlock the connection, press the socket into the plug and then unlock the connection with your finger.



Structure for preventing wrong insertion

The connector is designed so as to prevent wrong insertion. An attempt to insert the connector in wrong direction does not cause any contact between different circuits.





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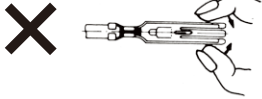
SC TYPE

PRECAUTIONS

■ Pay attention to the following points when handling a contact.

When handling a contact:

● Do not deform a contact.



● Insertion of a single contact causes deformation.



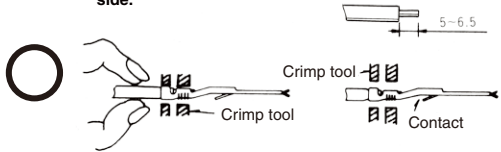
When crimping a contact:

● Removing a contact by holding the contact part causes deformation.



● Strip the wire to 5 to 6.5 mm in length.

● To remove a contact from the tool, hold the electric wire side.

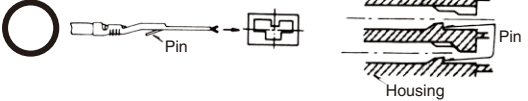


When inserting a contact into the housing:

● Do not insert an electric wire or the like from the contact side.



● Straightly insert a contact while properly positioning the pin.



● Do not reuse the contact that has been once inserted.

ACCESSORIES

Protective cover

This cover is used for protecting the housing. (Material: Nonrigid vinyl plastic; Color: Blue clear)
Attach the cover to the socket side. (The cover can not be attached after wiring.)

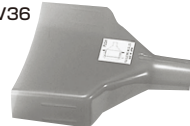
SC-CV12



SC-CV24



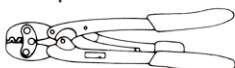
SC-CV36



Crimp tool

This tool is used to crimp the SC-C (contact).
Example: 720725-1 made by AMP

SC crimp tool



Removal tool

This tool is used to remove a contact from the housing.

SC remover

