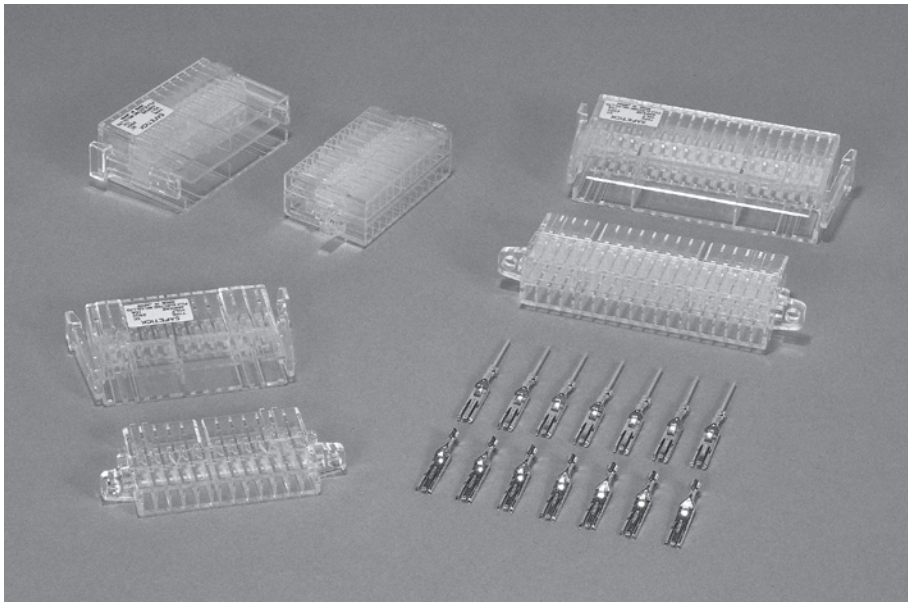




RECTANGULAR CONNECTOR

# SC-TYPE



A SWITCH

B PILOT LAMP & INDICATOR

C CONNECTING DEVICES

D ELECTRONIC DEVICES

## FEATURES

### ■ High contact reliability and high conductive contact

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.

### ■ High strength stopper structure

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 <sup>2</sup> to 2.0mm <sup>2</sup>		
Power-Frequency withstand voltage		(Live part to assembly mounting panel) 2,500V AC / 1 min. / (Between live parts) 2,500V AC / 1 min.		
Rated impulse withstand voltage		(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		500 m/s <sup>2</sup> / each axial direction		
Ambient operating temperature		-40 to 85°C		
Storing temperature		-55 to 85°C		
Relative humidity		85% or less		
Altitude		2,000 m or less		

\* For 15A, do not use adjacent contacts.



RECTANGULAR CONNECTOR

# SC-TYPE

## HOW TO ORDER

For other than combination products, please order by the model name on the next page. In the case of ordering by contact (SC-C), please order by units of bags (25 per bag).

## SC-PS12C

Basic type    Plug    Socket

### Contact

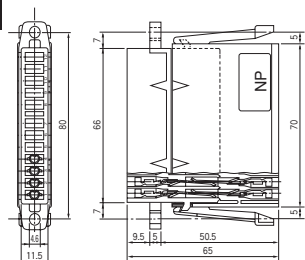
Code	Detail
C	Standard contact
LC	Contact for wire wrapping

### No. of poles

Code	Detail
12	12 poles
24	24 poles
36	36 poles

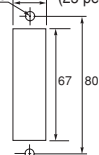
## PLUG AND SOCKET DRAWING

### SC-PS12C (12 poles)

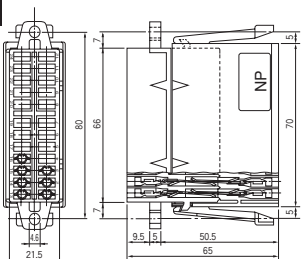
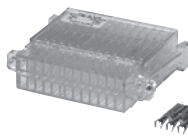


### Combination product

SC-P12 (Plug) 1 pc.  
SC-S12 (Socket) 1 pc.  
SC-C (Contact) 1 bag.  
2-#4.5 | 12 (25 per bags)

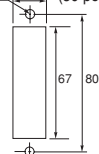


### SC-PS24C (24 poles)

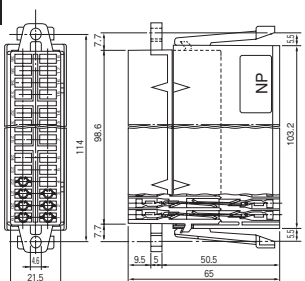


### Combination product

SC-P24 (Plug) 1 pc.  
SC-S24 (Socket) 1 pc.  
SC-C (Contact) 2 bags.  
2-#4.5 | 22 (50 per bags)

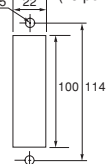


### SC-PS36C (36 poles)














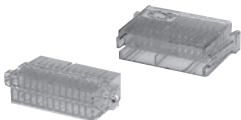


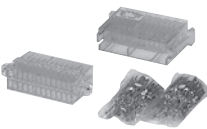
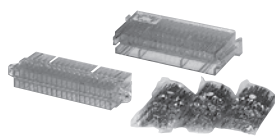


### Combination product

SC-P36 (Plug) 1 pc.  
SC-S36 (Socket) 1 pc.  
SC-C (Contact) 3 bags.  
2-#4.5 | 22 (75 per bags)



## STANDARD PRODUCTS

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

\* In case of wrapping contact for only one side, please write (P) or (S) at the end.

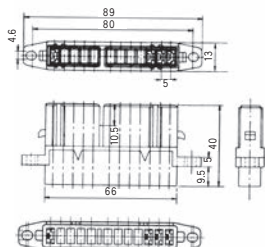


RECTANGULAR CONNECTOR

# SC-TYPE

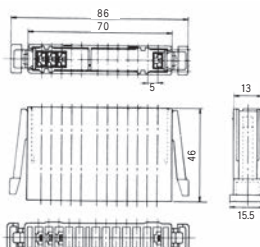
## DRAWING

### SC-P12 (12-pole plug)

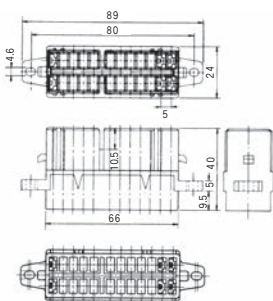


The mounting holes are shown on C193.

### SC-S12 (12-pole socket)

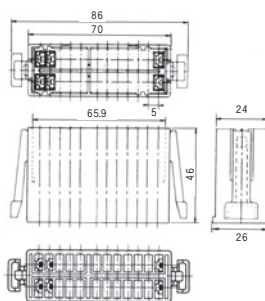


### SC-P24 (24-pole plug)

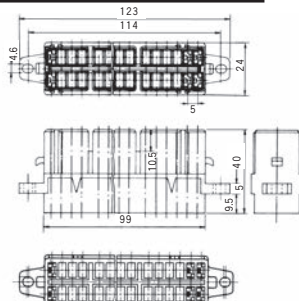


The mounting holes are shown on C193.

### SC-S24 (24-pole socket)

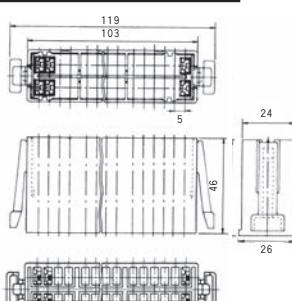


### SC-P36 (36-pole plug)

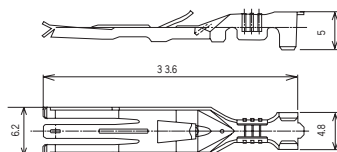


The mounting holes are shown on C193.

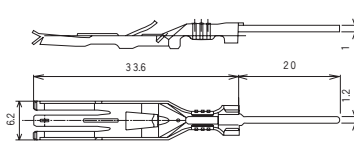
### SC-S36 (36-pole socket)



### SC-C (Standard contact)



### SC-LC (Contact for wire wrapping)



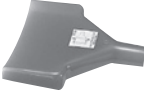
\* Please contact us for crimp tools.

## ACCESSORIES

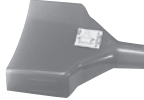
### Protection cover

This is a cover used to protect the housing. (Material: Nonrigid vinyl plastic, Color: Transparent blue)  
Please attach the cover to the socket side. (You cannot attach the cover to the connector after wiring.)

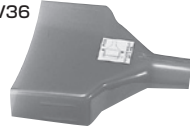
SC-CV12



SC-CV24



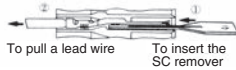
SC-CV36



### Removal tool

This is a tool used when pulling out the contact from the housing.

SC remover



### Crimp tool

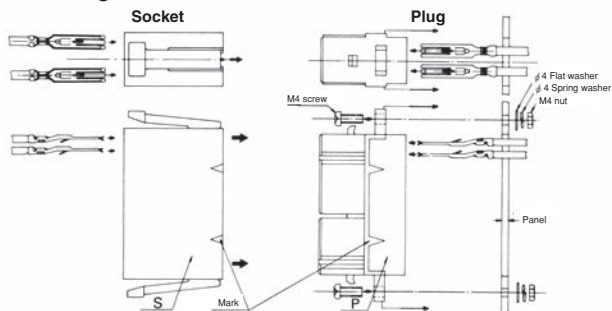
\* Please contact us for details.



# SC TYPE

## INSTRUCTION

### ■ Mounting method



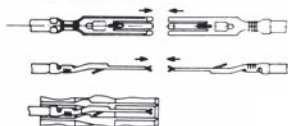
\* No screws are provided.

### ■ Structure of contact

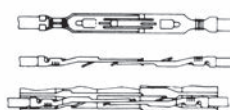
The same contact can be used commonly for either the plug or the socket.

The 3-point contact maintains much higher contact stability than the former type for a long period of time.

Before contact part is inserted.



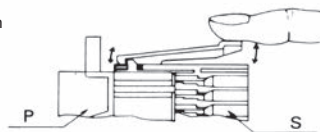
After contact part is inserted.



### ■ Mechanism of stopper

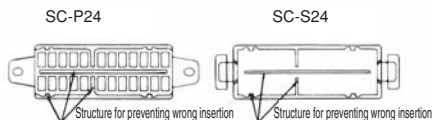
All models (S12, S24, S36) are provided with housing disconnection lock.

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



### ■ Structure of 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.



## PRECAUTIONS

■ Please pay attention to the following points when handling a contact.

When handling a contact:

● Do not deform a contact.

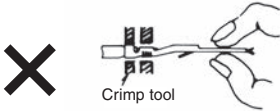


● Insertion of a single contact causes deformation.



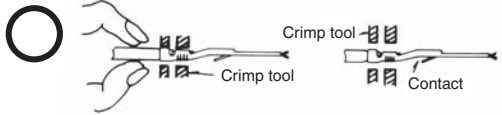
When crimping a contact:

● 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.

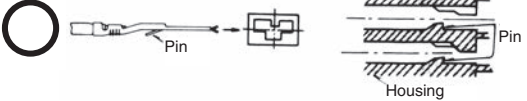


When inserting a contact into the housing:

● 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.