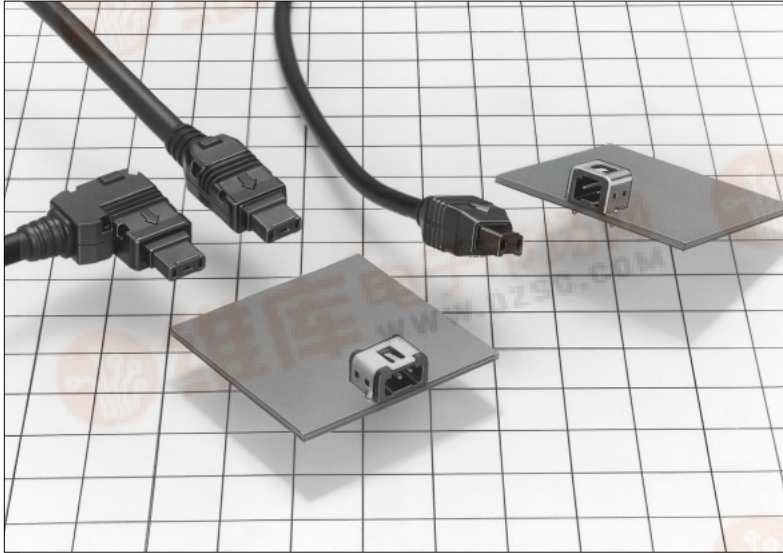
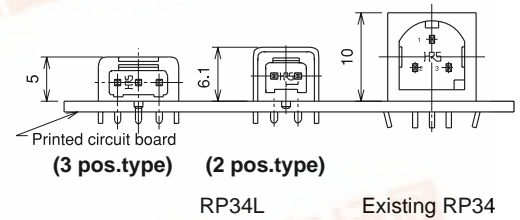


# Low Profile Connectors for AC power supply

## RP34L Series



### Receptacle installed height



## ■Features

### 1. Low profile

Receptacles are designed with their installation heights to be shorter than those of conventional RP34 series.

### 2. Space saving

Both 2 and 3 position receptacles are miniaturized to 7mm length, resulting in a small board mounting area.

### 3. Snap-lock mechanism

Audible click when connector is fully mated.

### 4. Precise mated connection

Secure hold of the plug on all 3 axis.

### 5. Sequence mating

The 3 contact type has sequenced mating. One pin makes contact as a ground terminal before the other contacts.

### 6. No Mismatching

Two polarized keys prevent any insertion error.

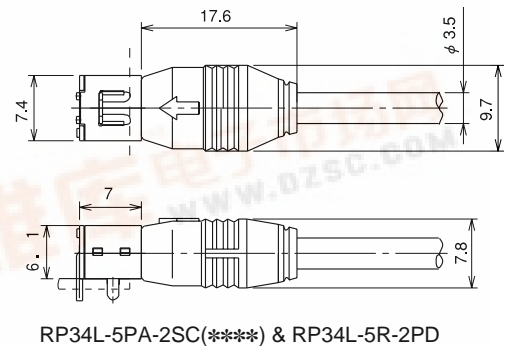
### 7. Ease of Mating

An arrow on the top of the plug shows the proper direction for insertion.

## ■Applications

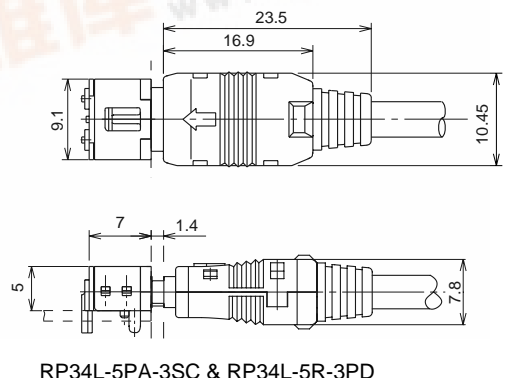
Notebook PCs, portable remote terminals, AV equipment, etc.

### Mated dimensions



This 2 contact plug is an over-molded (i.e., cable-integrated form) type. Recommended cable diameter is 3.5mm dia.

### Mated dimensions



This 3-contact plug is a field assembly type. Recommended cable diameter is 4mm dia.

## ■Product Specifications

Ratings	Current rating	5A	Operating temp. range	-25℃~+85℃
	Voltage rating	30V AC, 42A DC	Storage temp. range	-10℃~+60℃

Item	Specification	Conditions
1.Contact resistance	30mΩ or max.	1A DC
2.Insulation resistance	1000mΩ min.	100V DC
3.Withstanding voltage	No flashover or insulation breakdown	150V AC/1 minute
4.Vibration	No electric disconnection of 10μs or more	10~55Hz, one-sided amplitude 0.75mm, 3 directions for 2hours, respectively
5.Temperature cycle	Insulation resistance:100mΩ min.	-55℃ for 30 min.→normal temp. for 10~15 min.→+85℃ for 30 min.→normal temp. for 10~15 min. 5 cycles
6.Salt spray	No corrosions	5% salt water solution, 48 hours
7.Durability	Contact resistance:60mΩ max.	5,000 mating / un-mating

## ■Material

Component		Material	Finish / Color	Remarks
2 pos.	Metal comp.	Phosphor bronze	Solder-plating	———
	Insulator	Nylon	Black	UL94HB
	Contacts	Brass	Palladium-plating	———
2 pos.	Cover	Vinyl chloride	Black	UL94V-0
	Insulator	Nylon	Black	UL94HB
	Contacts	Phosphor bronze		———
3 pos.	Metal comp.	Phosphor bronze	Solder-plating	———
	Insulator	PPS	Black	UL94V-0
	Contacts	Brass	Palladium-plating	———
3 pos.	Cover	Polycarbonate	Black	UL94V-0
		Vinyl chloride	Black	UL94V-0
	Insulator	PPS	Black	UL94V-0
	Contacts	Phosphor bronze	Palladium-plating	———

## ■Ordering information

**RP34L - 5 PA - 2 SC (\*\*\*\*)**  
①
②
③
④
⑤
⑥

① Series name: RP34L	④ Number of contacts: 2, 3
② Shell: Shell.size, 5	⑤ Type of contact: PD: through hole male contact SC: crimp female contact
③ Type: Receptacle: R Assembled straight plug: P Assembled right angle plug: LP Cable ass'y, straight plug: PA	⑥ Cable length:(****) depends on each cable (mm).

●2 pos.

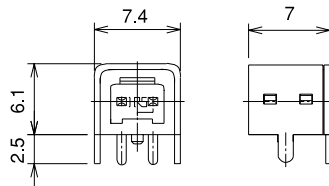
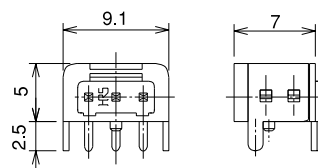


Figure 1 shows two dimensional drawings of the test fixture. The left drawing is a top view, and the right drawing is a side view. The top view shows a square base with a central square hole. The width of the base is 7.5 (+0.1/0), and the height is 6.2 (+0.1/0). The central hole has a side length of 1.2. The side view shows the profile of the fixture, with a top thickness of 1.3 (0/-0.1) and a total height of 2.12 (+0.05/-0). The base width is 1.2. Labels 'panel' and 'Printed circuit board' are present.

Technical drawing of a connector front view. The drawing shows a rectangular component with a central slot. Dimensions and tolerances are specified as follows:

- Top horizontal dimensions:  $3.45 \pm 0.05$  (left of center) and  $3.45 \pm 0.05$  (right of center).
- Bottom horizontal dimensions:  $1.35 \pm 0.05$  (left of center) and  $1.35 \pm 0.05$  (right of center).
- Vertical dimensions on the right:  $3$  (top section),  $4 \pm 0.05$  (bottom section), and  $0.2 \pm 0.05$  (bottom-most section).
- Diagonal dimensions:  $2 - \phi 1.5^{+0.1}_0$  (top-left hole) and  $3 - \phi 1.1^{+0.1}_0$  (bottom-right hole).
- Label: "Connector front" with an arrow pointing to the top right.

RP34L-5R-3PD

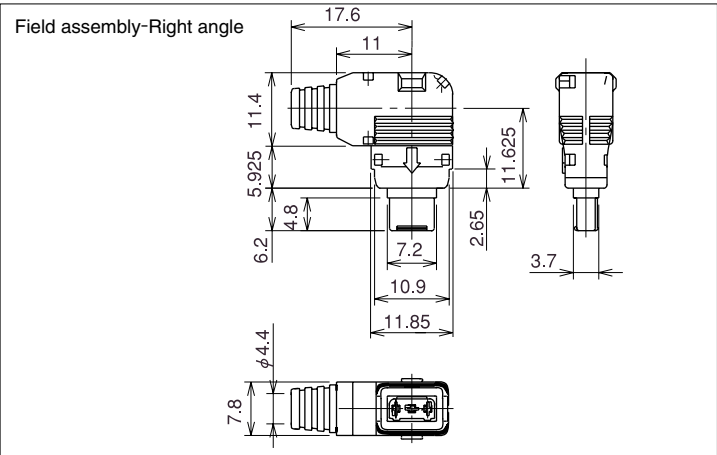
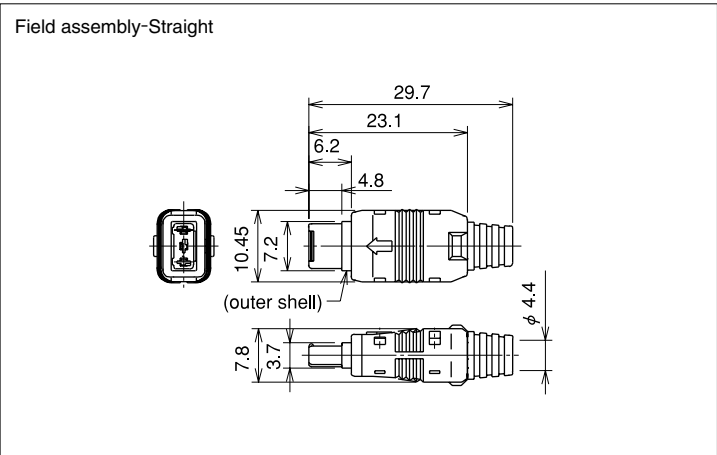
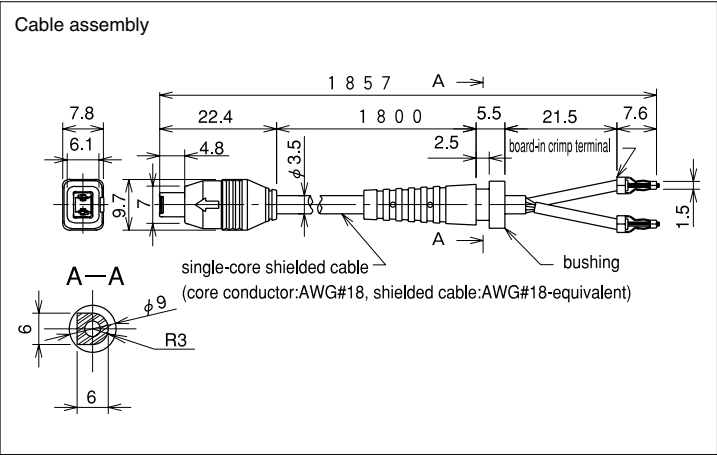


Technical drawing of a connector front view. The drawing shows a rectangular component with a central rectangular area defined by dashed lines. Dimensions are provided in millimeters (mm) with tolerances.

- Overall width:  $4.3 \pm 0.05$  mm (indicated twice).
- Overall height:  $4.5 \pm 0.05$  mm.
- Central rectangular area width:  $2.35 \pm 0.05$  mm (indicated twice).
- Central rectangular area height:  $4 \pm 0.05$  mm.
- Distance from top edge to top of central area:  $1.15 \pm 0.05$  mm.
- Distance from bottom edge to bottom of central area:  $4 \pm 0.05$  mm.
- Distance from left edge to left of central area:  $2.35 \pm 0.05$  mm.
- Distance from right edge to right of central area:  $2.35 \pm 0.05$  mm.
- Connector front view: Indicated by a label and an arrow pointing to the top-left corner of the central area.
- Dimensions for the central area:  $2 - \phi 1.5^{+0.1}_0$  mm (indicated twice) and  $4 - \phi 1.1^{+0.1}_0$  mm (indicated twice).

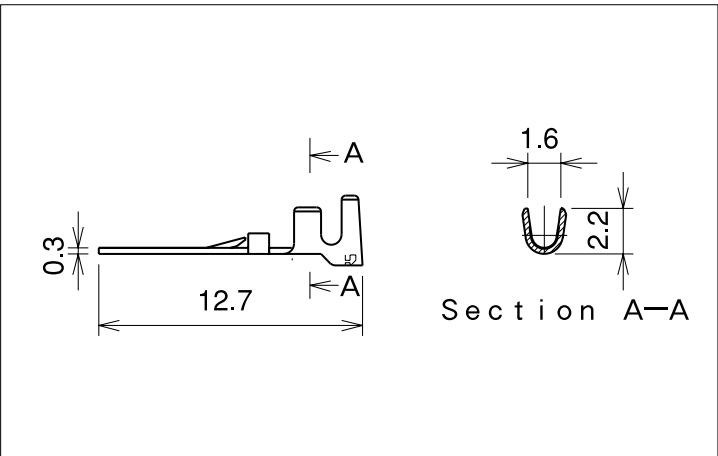
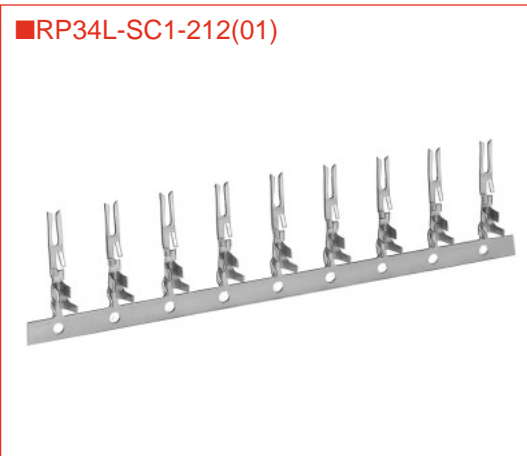
Part Number	CL No.
RP34L-5R-2PD	113-5154-6-00
RP34L-5R-3PD	113-5157-4-00

# Plugs



Part Number	CL No.
RP34L-5PA-2SC(1857)	113-5153-3-00
RP34L-5P-3SC	113-5158-7-00
RP34L-5LP-3SC	113-5161-1-00

■Crimp contact



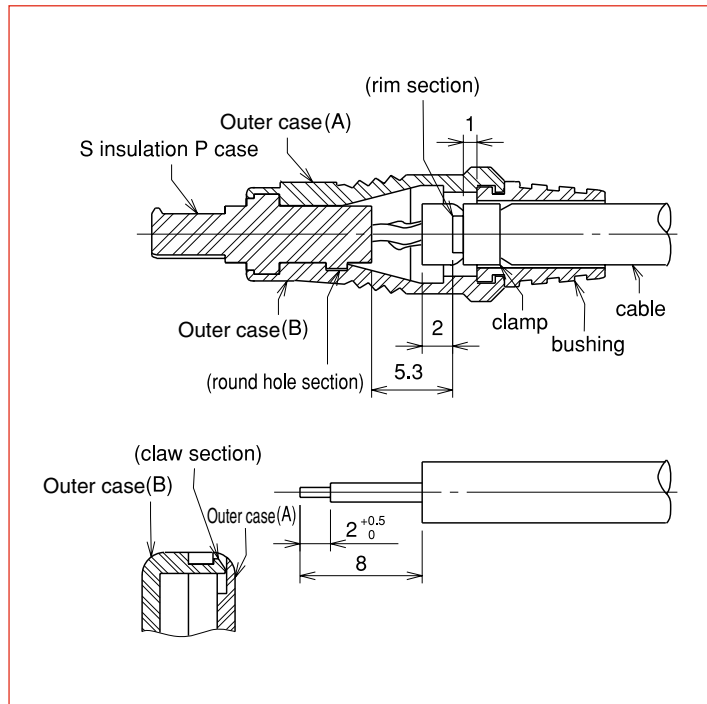
Part Number	CL No.
RP34L-SC1-212(01)	113-5151-8-01

■Applicable Tools

TYPE		Part Number	CL No.	Conformant terminal	Applicable conductor
Manual crimping tool		HT-102/RP34L-SC1-212	—	RP34L-SC1-212(01)	AWG#18~#22
Crimper	Automatic	CM-105	901-0005-4	—	—
	Crimper body	AP105-RP34L-SC1-212	901-2043-4	RP34L-SC1-212(01)	AWG#18~#22
Cable crimping tool		RP34-TC-01	150-0074-1	—	φ4
Drawing tool		RP6-SC-TP	150-0039-0	—	—

## ■Assembly Instructions(3-Position Plug)

### ●Straight Plug



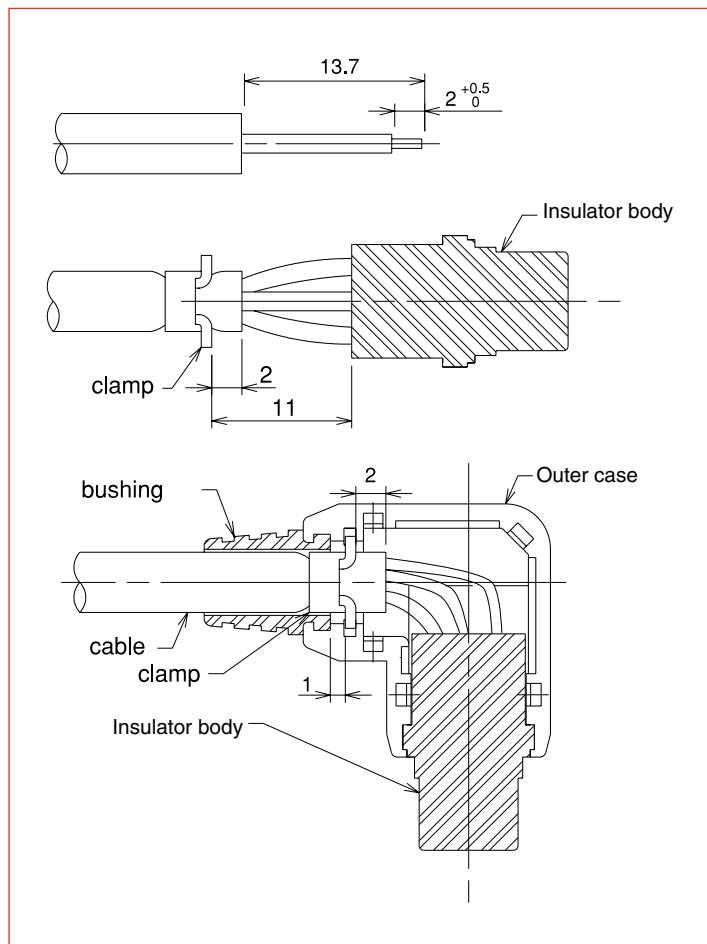
1. Slide the bushing over the cable.
2. Prepare the cable end and the conductors as shown.
3. Crimp the contacts to each conductor.  
Verify the crimp dimensions.
4. Insert each of the contacts into the insulator body.  
Verify that the contact is secure by slightly pulling on the conductor. Should the contacts require re-insertion, use the tool RP6-SC-TP to remove them (Inserted from the termination side).
5. Crimp the cable clamp over the cable at designated dimension (Tool number:RP34-TC-01).
6. Place the outer case on a flat surface, with inside facing up.
7. Carefully place the insulator body, clamp and the bushing into corresponding indents and cut-outs in the outer case.  
Verify correct location. (As shown on drawing)

Note A: When placing all components in the case, exercise caution as NOT to damage any of the protruding snap.

Note B: All components should fit easily, without use of any force.

8. Carefully align the other outer case over all components case. Do not force alignment.
9. Snap the case in place.

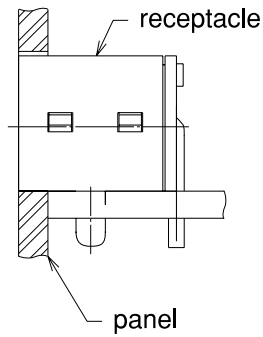
### ●Right Angle Plug



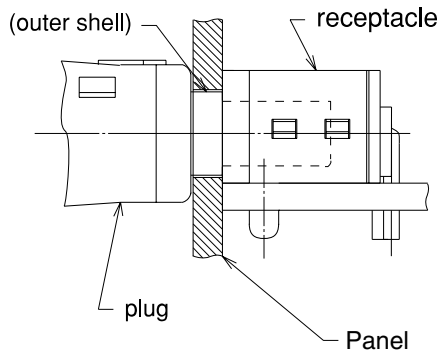
1. The right angle plug can also be assembled by using the same procedure as the straight plug.

## ■Precautions

1. Use the connector section with its panel held down so as not to have excessive load. For 2-contact type, hold the outer shell section of the receptacle, and for 3 contact type, the outer shell section of the plug.



<2-contact type>



<3-contact type>

2. After connector assembly, cable must not be pulled over 30N in the arrow-indicated direction. Be careful not to add excessive tensile load because it will lead the damage of connectors.

