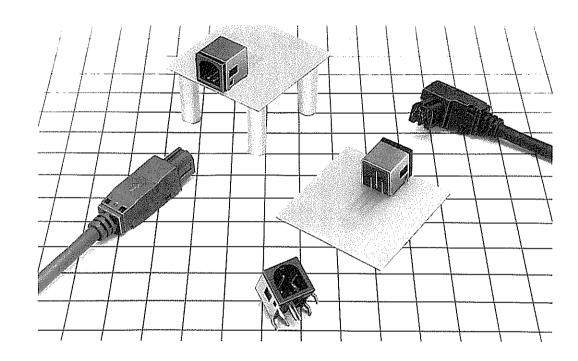
HRS RP34 SERIES COMPACT PLASTIC CONNECTOR FOR AC ADAPTER

Scope

Model RP34 Connector is a compact, lightweight, 3pole plastic connector specially designed for the AC adapter interface for notebook type personal computers. Plug is available in either straight type or right-angle type. Right angle type offers low insertion profile. The receptacle is a very compact part with a 10mmsquare mating surface and 11.3mm depth.



Features

- (1) Snap-lock locking permits easy insertion and disconnection.
- (2) Right-angle plug permits cable take-out on either right side or left side depending on the application.
- (3) One of the three poles is designed for grounding terminal which makes contact before the other two poles.
- (4) D-shaped mating section permits easy insertion.
- (5) Six different guide locations are available. Connectors can be installed in line permitting correct matching of receptacle and plug.
- (6) Snap-fit assembling method for plug, eliminating use of screws, is easy and simple.
- (7) The external appearance is simplified cubical shape and fits well to any equipment.

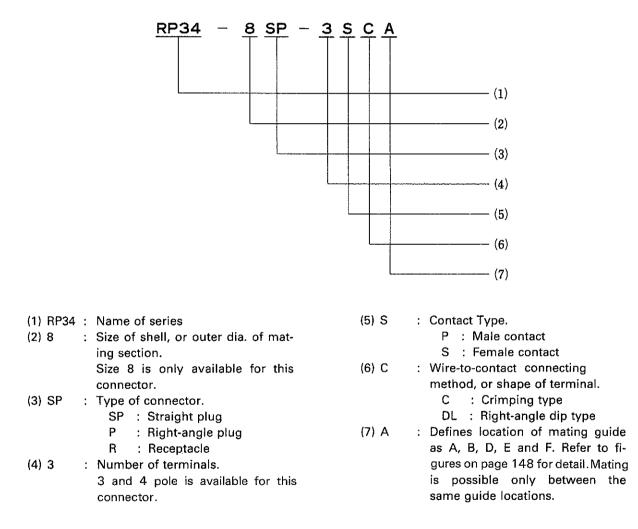
Application

OA equipment, communications equipment, audio equipment and small size electronic products.

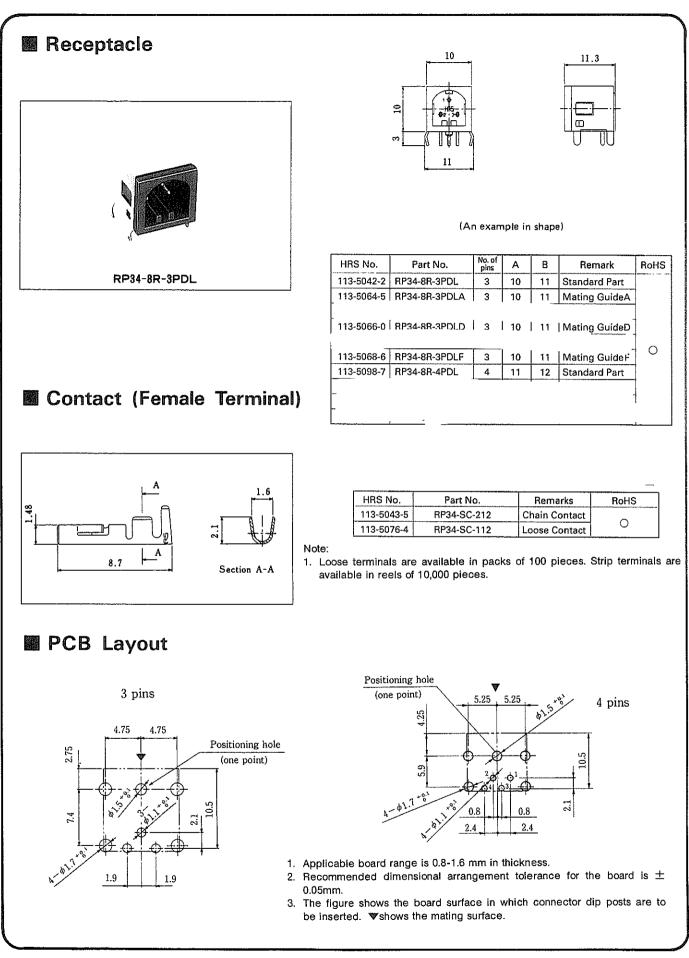
Material and Finish

Part Name	Material	Finish	
Main FramePolycarbonate resin containing glass,and Insulatorand PBT resin UL94V-0		(Black)	
Male Terminal	Brass	Silver plating	
Female Terminal	Phosphor bronze	Silver plating	

Ordering Information

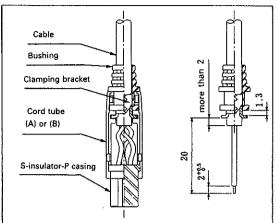


Straight Plug	
	37.5 30.5 7.5 7.5 (An example in shape)
RP34-8SP-3SC (71)	HRS No. Part No. No. of A Remark RoHS
	113-5049-1-71 RP34-8SP-3SC (71) 3 9.6 Standard Part 113-5059-5-71 RP34-8SP-3SCA (71) 3 9.6 Mating Guide A
	113-5061-7-71 RP34-8SP-3SCD(71) 3 9.6 Mating Guide D
	113-5063-2-71 RP34-8SP-3SCF(71) 3 9.6 Mating Guide F 113-5097-4-71 RP34-8SP-4SC(71) 4 11 Standard Part
I Right-Angle Plug	
Right-Angle Plug	
Right-Angle Plug	18 18 18 18 10 10 10 10 10 10 (An example in shape)
Right-Angle Plug	18 18 18 18 10 10 10 10 10 10 10 10 10 10
Right-Angle Plug Image: Constraint of the second sec	18 18 10 113-5041-0-71 RP34-8P-3SC (71) Standard Part



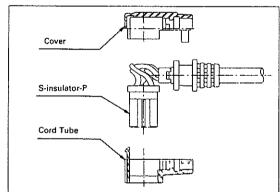
Sembly Procedure

Straight Plug



- 1. Insert bushing over terminated cable, and install terminal by crimping.
- 2. Put crimped terminal into the terminal hole of Sinsulator-P casing. Lightly pull the cable to confirm crimped terminal is firmly engaged in the terminal hole.
- 3. Use proper tool (RP34-TC-01) to crimp fit clamping bracket to cable.
- Assemble S-insulator-P casing, clamping bracket and bushing to cord tube (A) or (B) where applicable. S-insulator-P casing can be installed inverted 180°. Use suitable orientation as required.
- 5. Finally, assemble cord tube (A) or (B), whichever is remaining, to complete assembly.

Right-angle Plug



1. Same assembly procedures apply to either rightangle plug or straight plug. S-insulator-P casing can be installed 180 ° inverted against cord tube. Install the casing in the cable take-out direction as required.

Туре	Item	HRS No.	Part No.	Applicable terminal	Applicable wire	
utomatic	Automatic crimping machine body	901-0005-4	CM-105			·
	Applicator	901-2025-2	105-RP34-1	RP34-SC-212	AWG#18~#22	
Cable c	crimping tool	150-0074-1	RP34-TC-01			
Ē	dractor	150-0072-6	RP34-SC-TP			HR5
						डभ

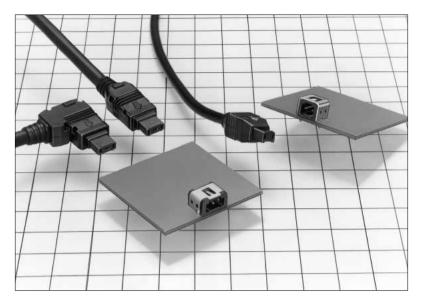
Terminal Arrangement, guide locations and principal performance

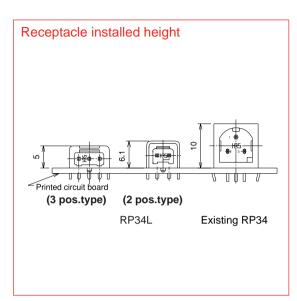
Terminal Arrangement, 3 pins Guide locations						
	Standard Type	Туре А	Туре В	Type D	Type E	Type F
Terminal Arrangement, 4 pins Guide locations	D1 D2 3 0 4 0 Staindard Type	01 02 30 40 Type A	01 02 30 40 Type B	01 02 30 40 Type C		
No. of Poles	3,4 (Terminal No.	1 is contacted faste	r than other terminal)			
Withstanding voltage	AC150V 1 min					
Current capacity	ЗA					
Insulation resistance	1,000MΩ Min (D	C100V)				
Contact resistance	30mΩ Max(DC 1	00V)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Applicable cable dia.	ф4					
Applicable cable	AWG#18~#22					

(Remarks) 1. Figures above show guide locations viewed from receptacle mating surface (from cable-connecting section of plug).2. Voltage rating for normal use is 30VAC or 42VDC and under.

Low Profile Connectors for AC power supply

RP34L Series





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 au 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 Mismating

Two polarized keys prevent any insertion error.

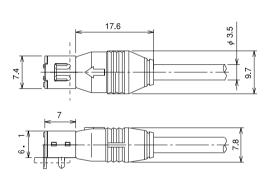
7. Ease of Mating

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

Applications

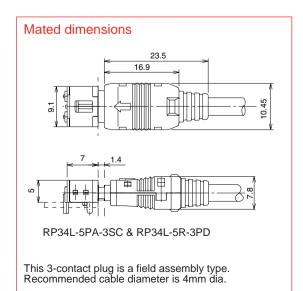
Notebook PCs, portable remote terminals, AV equipment, etc.

Mated dimensions



RP34L-5PA-2SC(****) & RP34L-5R-2PD

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



Product Specifications

Datinga	Current rating	5A	Operating temp. range	-25℃~+85℃
Ratings	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:100m Ω 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

C	Component	Material	Finish / Color	Remarks
	Metal comp.	Phosphor bronze	Solder-plating	
2 pos.	Insulator	Nylon	Black	UL94HB
	Contacts	Brass	Palladium-plating	
	Cover	Vinyl chloride	Black	UL94V-0
2 pos.	Insulator	Nylon	Black	UL94HB
	Contacts	Phosphor bronze		
	Metal comp.	Phosphor bronze	Solder-plating	
3 pos.	Insulator	PPS	Black	UL94V-0
	Contacts	Brass	Palladium-plating	
	Cauca	Polycarbonate	Black	UL94V-0
2 8 9 9	Cover	Vinyl chloride	Black	UL94V-0
3 pos.	Insulator	PPS	Black	UL94V-0
	Contacts	Phosphor bronze	Palladium-plating	

(****)

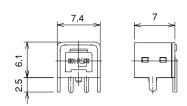
Ordering information

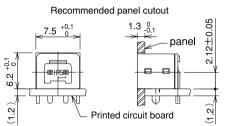
$\frac{\mathsf{RP34L}}{\bullet} - \frac{5}{\bullet} \frac{\mathsf{PA}}{\bullet} - \frac{2}{\bullet} \frac{\mathsf{SC}}{\bullet}$ 6 Series name: RP34L 4 Number of contacts: Shell: Shell.size, 5 2, 3 **6** Type: **6** Type of contact: Receptacle: R PD: through hole male contact Assembled straight plug: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

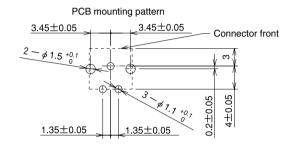
■Receptacles ●2 pos.

RP34L-5R-2PD(71)









•3 pos. RP34L-5R-3PD(71)



Recommended panel cutout

plug

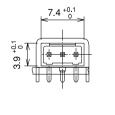
panel

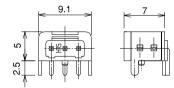
1.3 -01

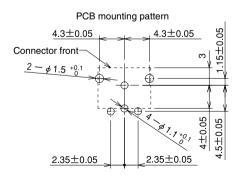
2.12土0.05

(1.2)

printed circuit board



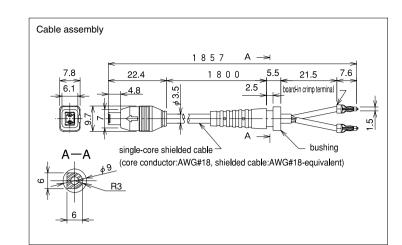




Part Number	CL No.	RoHS	
RP34L-5R-2PD(71)	113-5154-6-71	VES	
RP34L-5R-3PD(71)	113-5157-4-71	YES	

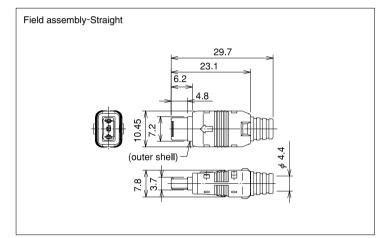
Plugs

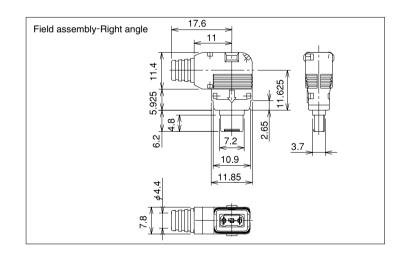






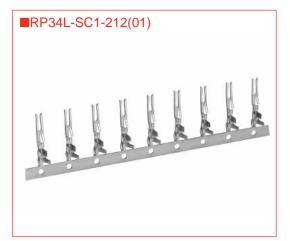
■RP34L-5LP-3SC(71)

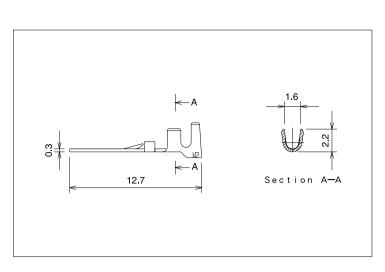




Part Number	CL No.	RoHS
RP34L-5PA-2SC(1857)(71)	113-5153-3-71	
RP34L-5PA-3SC(71)	113-5178-4-71	YES
RP34L-5LP-3SC(71)	113-5161-1-71	

Crimp contact





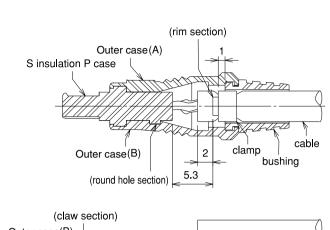
Part Number	CL No.	RoHS
RP34L-SC1-212(01)	113-5151-8-01	YES

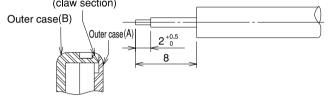
Applicable Tools

Туре		Part Number	CL No.	Applicable contact	Applicable conductor
Manua	al crimping tool	HT-102/RP34L-SC1-212		RP34L-SC1-112(01)	AWG#18~#22
Crimpor	Automatic	CM-105	901-0005-4		
Crimper	Crimper body	AP105-RP34L-SC1-212	901-2043-4	RP34L-SC1-212(01)	AWG#18~#22
Cable	e crimping tool	RP34-TC-01	150-0074-1		<i>ф</i> 4
Di	rawing tool	RP6-SC-TP	150-0039-0		

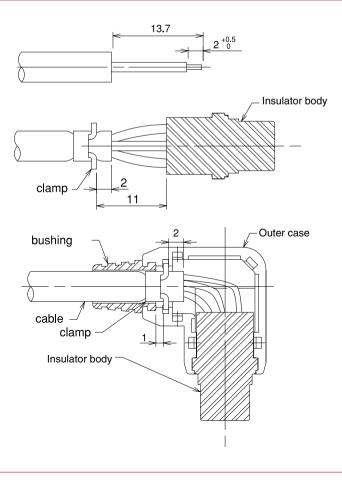
Assembly Instructions(3-Position Plug)

Straight Plug





Right Angle Plug

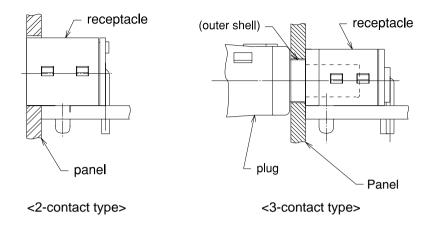


- 1. Slide the bushing over the cable.
- 2. Prepare the cable end and the conductors as shown.
- 3. Crimp the contacts to each conductor. Verify the crimp dimensions.
- 4. Insert each of the contacts into the insulator body. Verify that the contact is secure by slightly pulling on the conductor. Should the contacts require reinsertion, 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.

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 shellsection of the receptacle, and for 3 contact type, the outer shell section of the plug.



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.

