

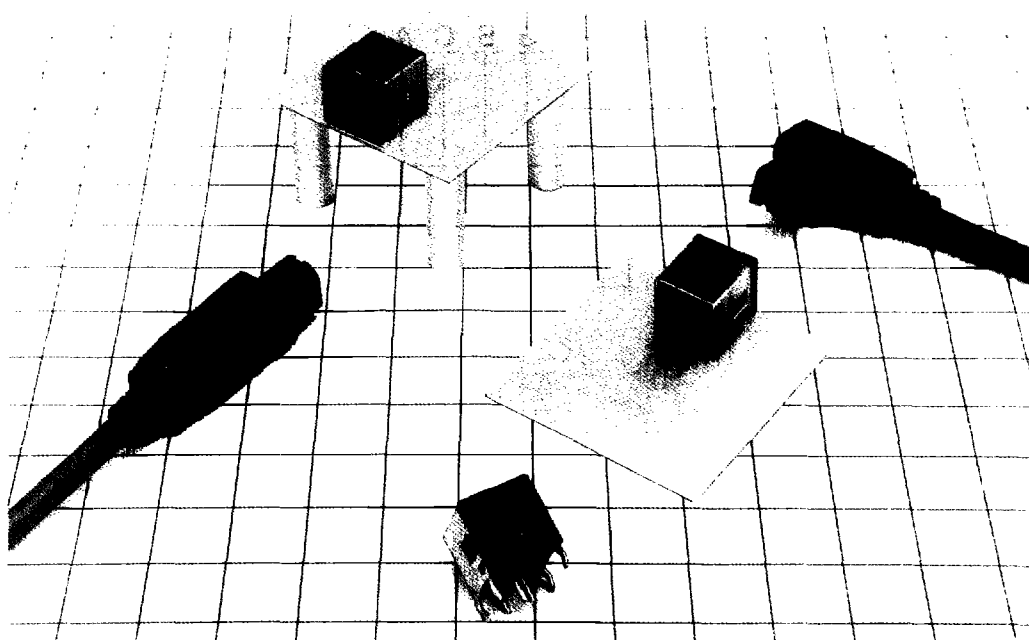


RP34 SERIES COMPACT PLASTIC CONNECTOR FOR AC ADAPTER

■ Scope

Model RP34 Connector is a compact, lightweight, 3-pole 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 10mm-square 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.

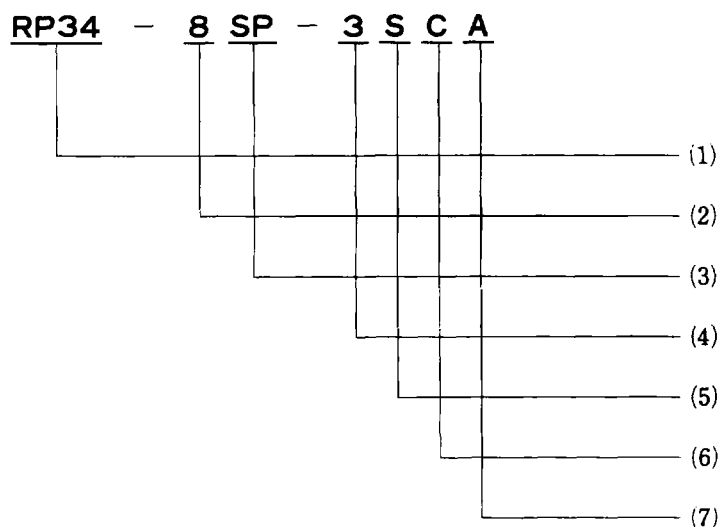
■ Application

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

■ Material and Finish

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

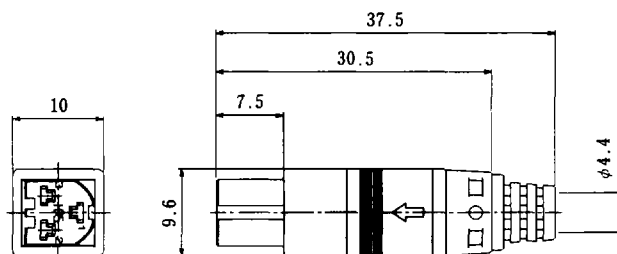
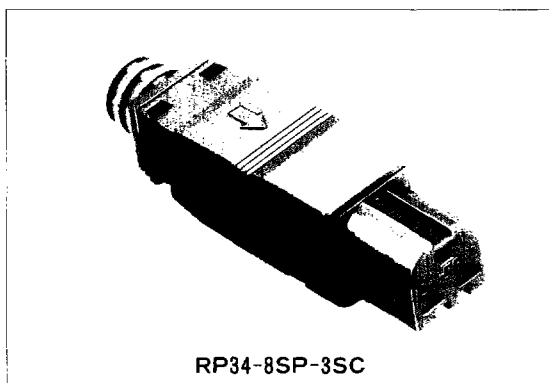
■ Ordering Information



- (1) RP34 : Name of series
- (2) 8 : Size of shell, or outer dia. of mating section.
Size 8 is only available for this connector.
- (3) SP : Type of connector.
SP : Straight plug
P : Right-angle plug
R : Receptacle
- (4) 3 : Number of terminals.
3 pole only is available for this connector.

- (5) S : Contact Type.
P : Male contact
S : Female contact
- (6) C : Wire-to-contact connecting method, or shape of terminal.
C : Crimping type
DL : Right-angle dip type
- (7) A : Defines location of mating guide as A, B, D, E and F. Refer to figures on page 6 for detail. Mating is possible only between the same guide locations.

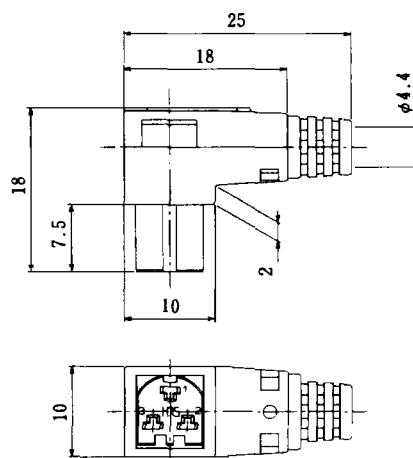
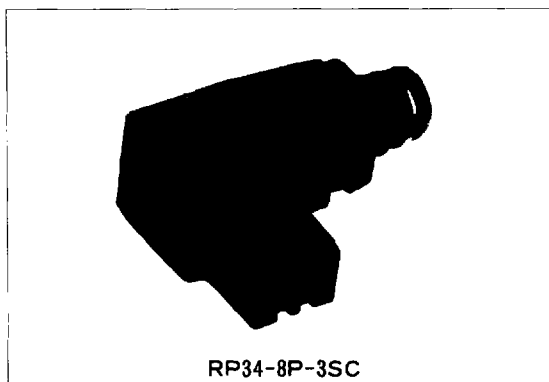
■ Straight Plug



(An example in shape)

HRS No.	Part Number	Mating Guide
113-5049-1	RP34-8SP-3SC	Standard Part
113-5059-5	RP34-8SP-3SCA	Mating Guide A
113-5060-4	RP34-8SP-3SCB	Mating Guide B
113-5061-7	RP34-8SP-3SCD	Mating Guide D
113-5062-0	RP34-8SP-3SCE	Mating Guide E
113-5063-2	RP34-8SP-3SCF	Mating Guide F

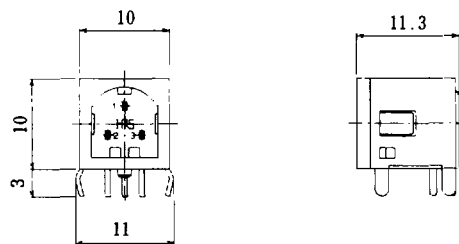
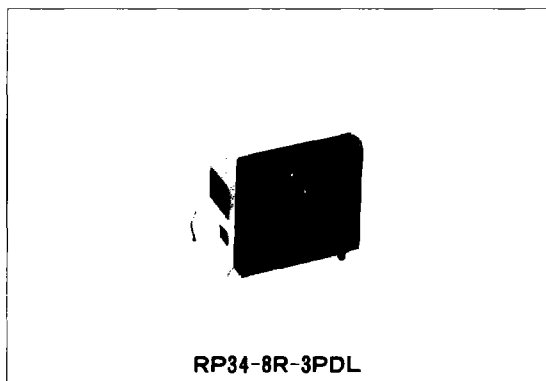
■ Right-Angle Plug



(An example in shape)

HRS No.	Part Number	Mating Guide
113-5041-0	RP34-8P-3SC	Standard Part
113-5054-1	RP34-8P-3SCA	Mating Guide A
113-5055-4	RP34-8P-3SCB	Mating Guide B
113-5056-7	RP34-8P-3SCD	Mating Guide D
113-5057-0	RP34-8P-3SCE	Mating Guide E
113-5058-2	RP34-8P-3SCF	Mating Guide F

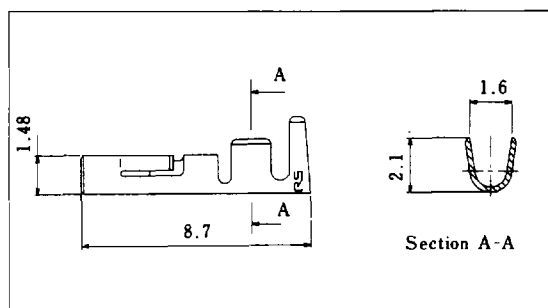
■ Receptacle



(An example in shape)

HRS No.	Part Number	Mating Guide
113-5042-2	RP34-8R-3PDL	Standard Part
113-5064-5	RP34-8R-3PDLA	Mating Guide A
113-5065-8	RP34-8R-3PDLB	Mating Guide B
113-5066-0	RP34-8R-3PDLD	Mating Guide D
113-5067-3	RP34-8R-3PDLE	Mating Guide E
113-5068-6	RP34-8R-3PDLF	Mating Guide F

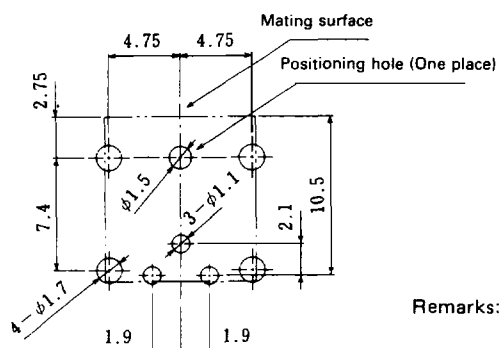
■ Contact (Female Terminal)



HRS No.	Part Number	Remarks
113-5043-5	RP34-SC-212	Chain Contact

(Note) One reel contains 10,000 pieces.

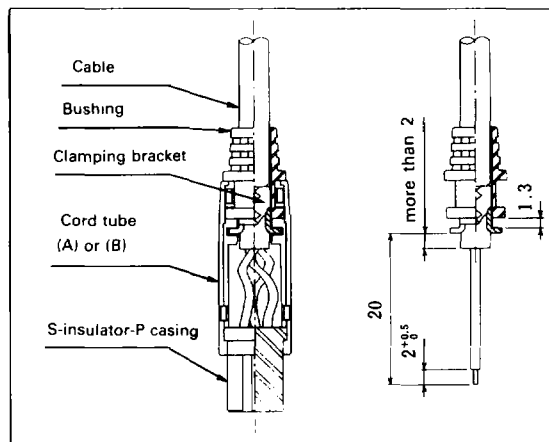
■ PCB Layout



- Remarks:
1. Applicable PCB is 0.8 to 1.6 mm.
 2. Applicable panel hole arrangement allowance shall be ± 0.05 mm.

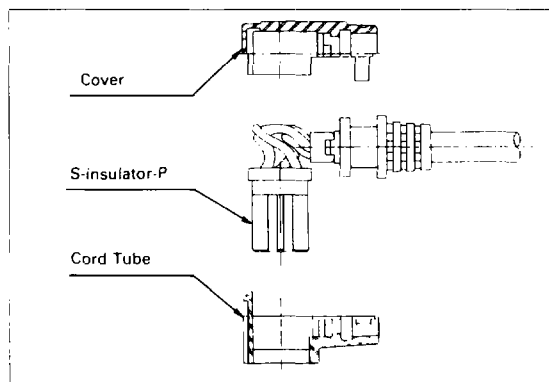
◆ Assembly Procedure

● Straight Plug



1. Insert bushing over terminated cable, and install terminal by crimping.
2. Put crimped terminal into the terminal hole of S-insulator-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.
4. 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



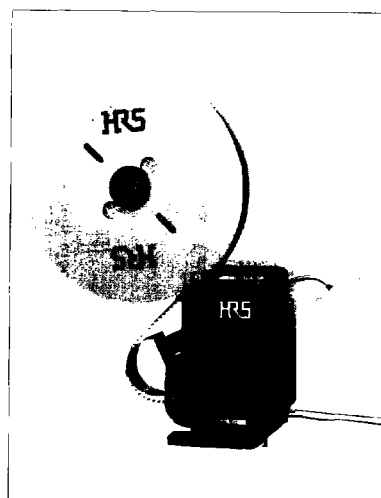
1. Same assembly procedures apply to either right-angle plug or straight plug. S-insulator-P casing can be installed 180° inverted against cord tube. Install the casing in the cable take-out direction as required.

◆ Tools

Tool	HRS No.	Part Number
Automatic Crimping Machine	—	CM-105
Applicator	—	105-RP34
Drawing Tool	150-0072-6	RP34-SC-TP
Cable Crimping Tool	150-0074-1	RP34-TC-01









Cable Crimping Tool **RP34-TC-01**



Automatic Crimping Machine **CM-105**

◆ Terminal Arrangement, guide locations and principal performance

Terminal Arrangement, Guide locations						
	Standard Type	Type A	Type B	Type D	Type E	Type F
No. of Poles	3 (Terminal No. 1 is contacted faster than terminal No. 2, and 3.)					
Withstanding voltage	AC150V 1 min					
Current capacity	3A					
Insulation resistance	1,000M Ω min (DC100V)					
Contact resistance	30m Ω max (DC 1A)					
Applicable cable dia.	ϕ 4					
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 30VDC or 42VAC and under.