

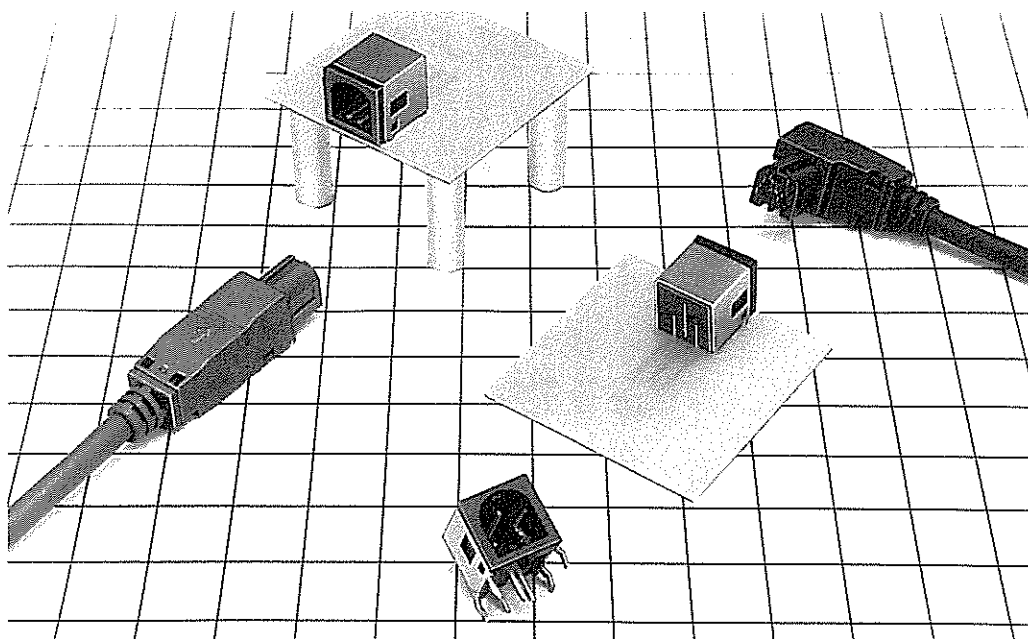
HRS RP34 SERIES

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.

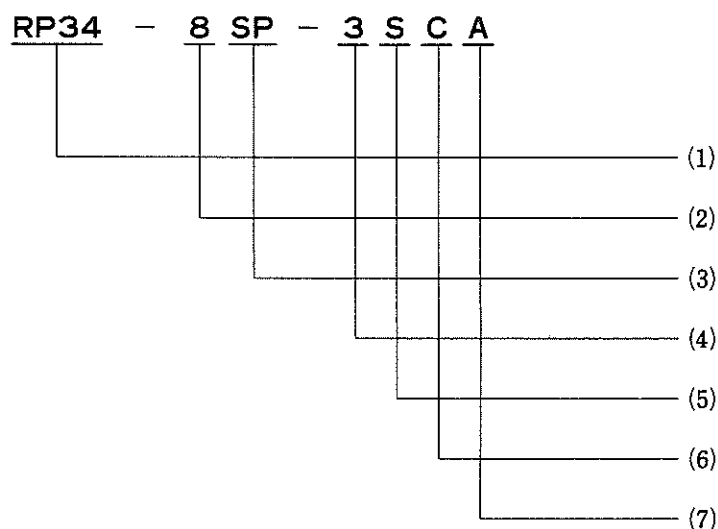
■ Application

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

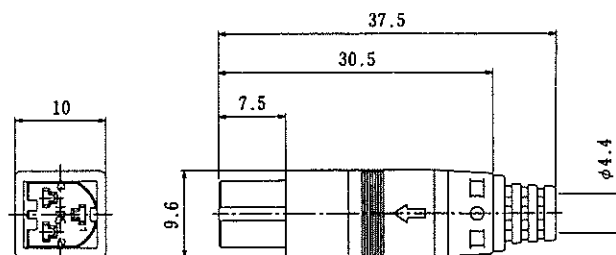
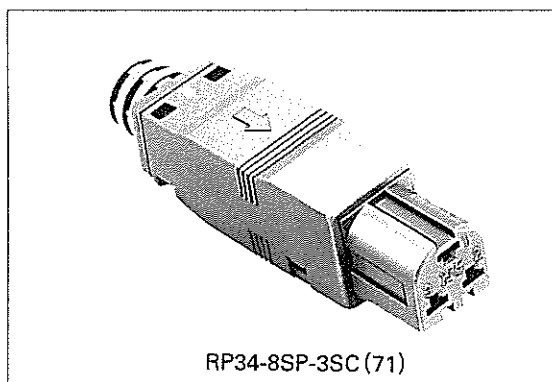
■ Ordering Information



- (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 and 4 pole 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 148 for detail. Mating is possible only between the same guide locations.

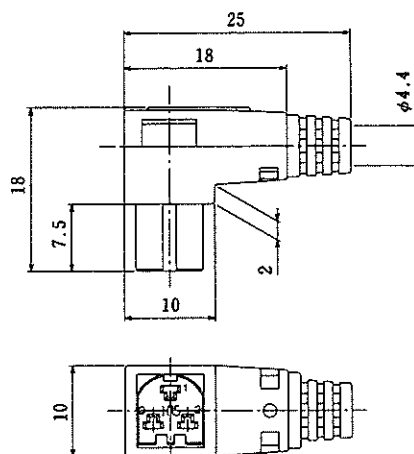
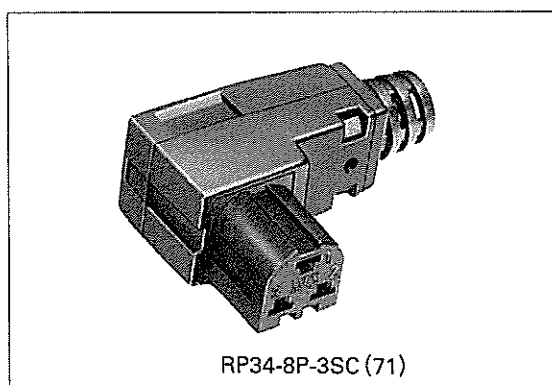
■ Straight Plug



(An example in shape)

HRS No.	Part No.	No. of pins	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	

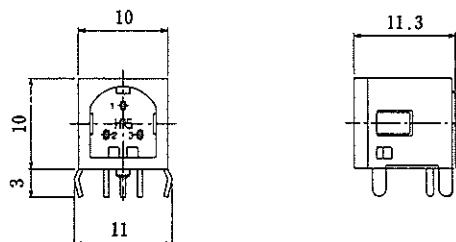
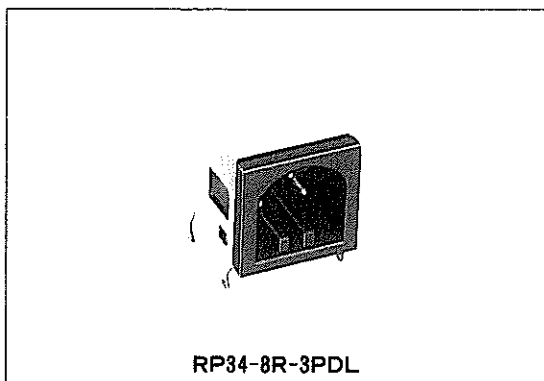
■ Right-Angle Plug



(An example in shape)

HRS No.	Part No.	Remark	RoHS
113-5041-0-71	RP34-8P-3SC (71)	Standard Part	○
113-5054-1-71	RP34-8P-3SCA (71)	Mating Guide A	
113-5056-7-71	RP34-8P-3SCD (71)	Mating Guide D	
113-5058-2-71	RP34-8P-3SCF (71)	Mating Guide F	

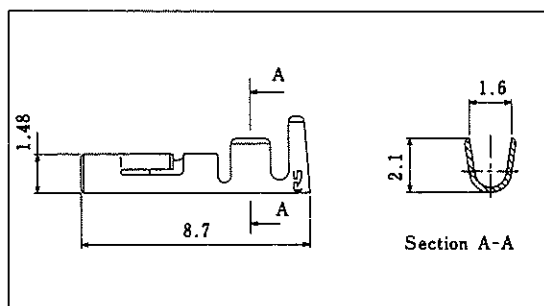
■ Receptacle



(An example in shape)

HRS No.	Part No.	No. of pins	A	B	Remark	RoHS
113-5042-2	RP34-8R-3PDL	3	10	11	Standard Part	○
113-5064-5	RP34-8R-3PDLA	3	10	11	Mating GuideA	
113-5066-0	RP34-8R-3PDLD	3	10	11	Mating GuideD	
113-5068-6	RP34-8R-3PDLF	3	10	11	Mating GuideF	
113-5098-7	RP34-8R-4PDL	4	11	12	Standard Part	

■ Contact (Female Terminal)

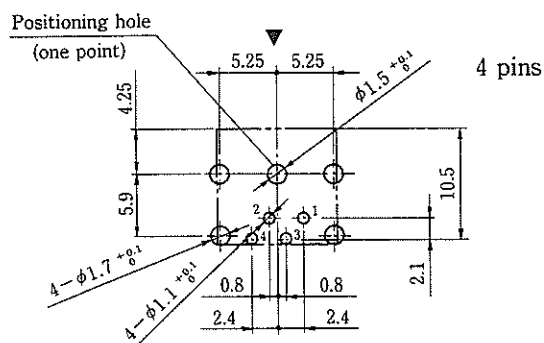
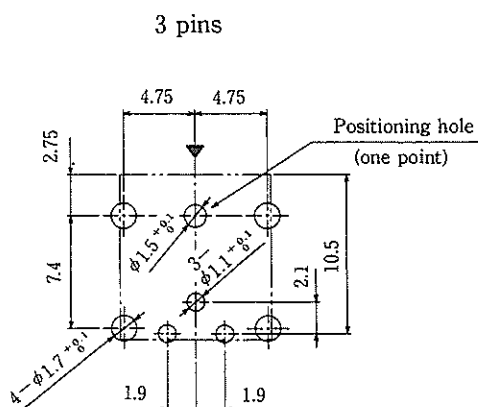


HRS No.	Part No.	Remarks	RoHS
113-5043-5	RP34-SC-212	Chain Contact	○
113-5076-4	RP34-SC-112	Loose Contact	

Note:

- Loose terminals are available in packs of 100 pieces. Strip terminals are available in reels of 10,000 pieces.

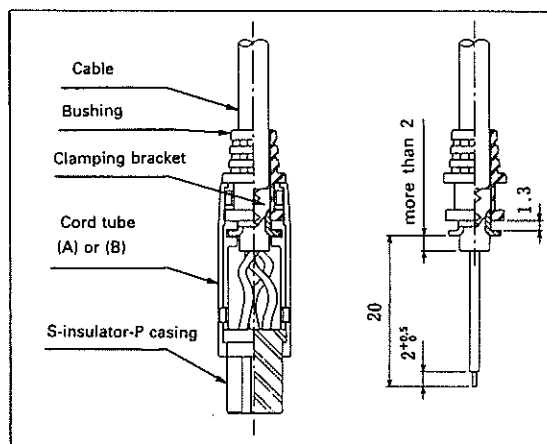
■ PCB Layout



- Applicable board range is 0.8-1.6 mm in thickness.
- Recommended dimensional arrangement tolerance for the board is $\pm 0.05\text{mm}$.
- The figure shows the board surface in which connector dip posts are to be inserted. ▼ shows the mating surface.

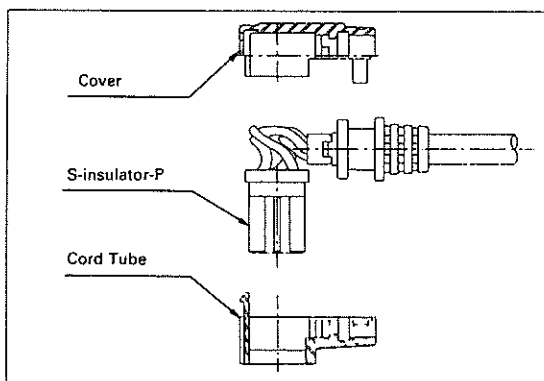
◆ Assembly Procedure

● 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.

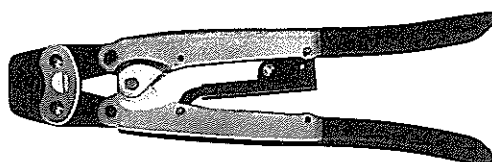
● Right-angle Plug



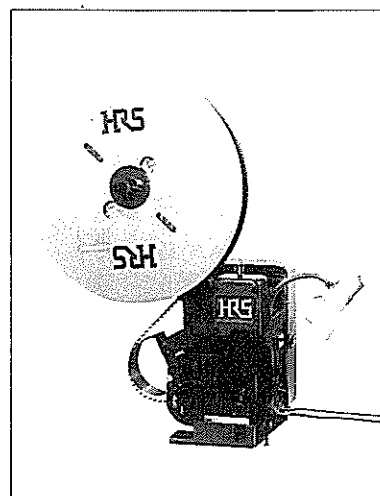
1. Same assembly procedures apply to either right-angle plug or straight plug. S-insulator-P casing can be installed 180° inverted against cord tube. Install the casing in the cable take-out direction as required.

◆ Applicable Tools

Type	Item	HRS No.	Part No.	Applicable terminal	Applicable wire
Automatic	Automatic crimping machine body	901-0005-4	CM-105	—	—
	Applicator	901-2025-2	105-RP34-1	RP34-SC-212	AWG # 18~ #22
Cable crimping tool		150-0074-1	RP34-TC-01	—	—
Extractor		150-0072-6	RP34-SC-TP	—	—



Cable Crimping Tool RP34-TC-01



Automatic Crimping Machine CM-105

◆ Terminal Arrangement, guide locations and principal performance

Terminal Arrangement, 3 pins Guide locations						
	Standard Type	Type A	Type B	Type D	Type E	Type F
Terminal Arrangement, 4 pins Guide locations						
	Standard Type	Type A	Type B	Type C		
No. of Poles	3,4 (Terminal No.1 is contacted faster than other terminal)					
Withstanding voltage	AC150V 1 min					
Current capacity	3A					
Insulation resistance	1,000MΩ Min (DC100V)					
Contact resistance	30mΩ Max(DC 100V)					
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 30VAC or 42VDC and under.



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Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331