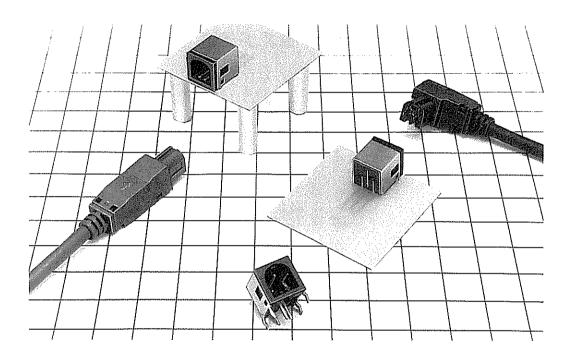
RP34 SERIES COMPACT PLASTIC CONNECTOR FOR AC ADAPTER

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 10mm-square mating surface and 11.3mm depth.



Features

- 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.

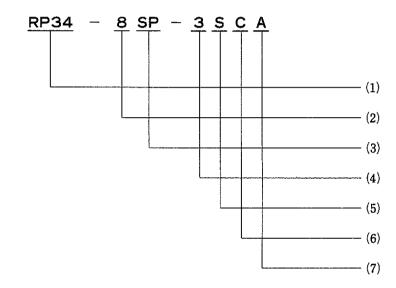
Application

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

Material and Finish

| Part Name | Part Name Material | | | |
|-----------------------------|---|----------------|--|--|
| 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 mat-

ing 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

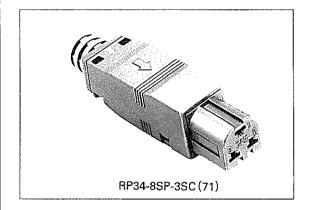
(7) A : Defines location of mating guide

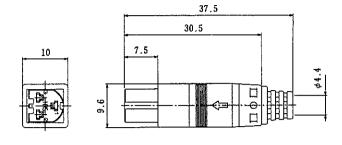
as A, B, D, E and F. Refer to figures on page 148 for detail. Mating

is possible only between the

same guide locations.

Straight Plug

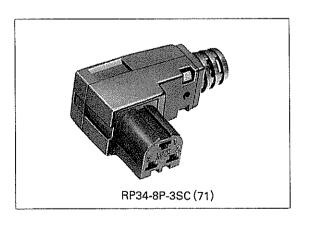


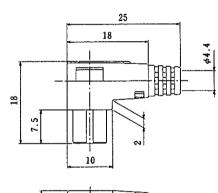


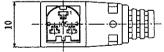
(An example in shape)

| HRS No. | Part No. | No. of pins | Α | Remark | RoHS |
|------------------|-------------------|-------------|-----|----------------|------|
| 113-5049-1-71 F | RP34-8SP-3SC (71) | 3 | 9.6 | Standard Part | |
| 113-5059-5-71 F | RP34-8SP-3SCA(71) | 3 | 9.6 | Mating Guide A |] |
| 113-5061-7-71 F | RP34-8SP-3SCD(71) | 3 | 9.6 | Mating Guide D | |
| 113-5063-2-71 F | RP34-8SP-3SCF(71) | 3 | 9.6 | Mating Guide F | 0 |
| 113-5097-4-71 | RP34-8SP-4SC(71) | 4 | 11 | Standard Part | |

■ Right-Angle Plug



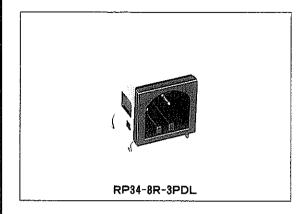


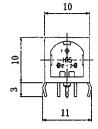


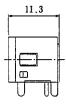
(An example in shape)

| 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 | Α | |
| 113-5056-7-71 | RP34-8P-3SCD(71) | Mating Guide | D | 0 |
| 113-5058-2-71 | RP34-8P-3SCF(71) | Mating Guide | F | |

Receptacle



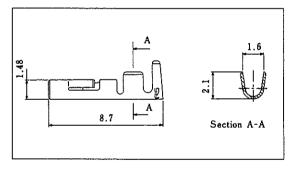




(An example in shape)

| HRS No. | Part No. | No. of pins | Α | В | 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 | 111 | Mating GuideD | |
| 113-5066-0 | RP34-8R-3PDLD | 13 | l 10 | 11 | Mating GuideD | |
| 113-5066-0 113-5068-6 | | 3 | 10 | 11 | Mating GuideD Mating GuideF | 0 |

Contact (Female Terminal)

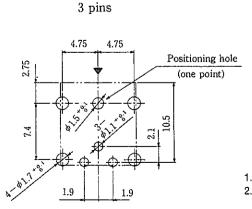


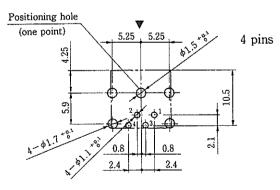
| HRS No. | Part No. | Remarks | RoHS |
|------------|-------------|---------------|------|
| 113-5043-5 | RP34-SC-212 | Chain Contact | |
| 113-5076-4 | RP34-SC-112 | Loose Contact | 0 |

Note:

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

PCB Layout

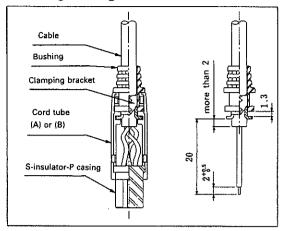




- 1. Applicable board range is 0.8-1.6 mm in thickness.
- 2. Recommended dimensional arrangement tolerance for the board is \pm 0.05mm
- The figure shows the board surface in which connector dip posts are to be inserted. Shows the mating surface.

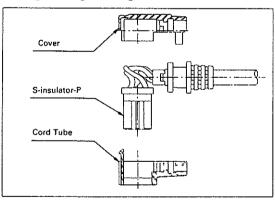
Assembly Procedure

Straight Plug



- 1. Insert bushing over terminated cable, and install terminal by crimping.
- 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.
- 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.

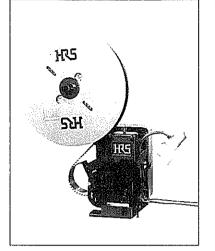
Right-angle Plug



 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.

Applicable Tools

| Туре | ftem | 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 | 10 02 30 | 10 02 30 | 1 d 0 2 30 | 10 02/30 | 10 02 30 | 16 12 30 |
|--|------------------------|--------------------------|------------------------|--------------------------|---|----------|
| | Standard Type | Туре А | Туре В | Type D | Type E | Type F |
| Terminal Arrangement, 4 pins Guide locations | 30 40 Standard Type | 01 02 30 40 Type A | 30 40 Type B | 01 02 30 49 Type C | | |
| No. of Poles | 3,4 (Terminal No. | 1 is contacted faste | r than other terminal) |) | | |
| Withstanding voltage | AC150V 1 min | | | | | |
| Current capacity | ЗА | | | | | |
| Insulation resistance | 1,000MΩ Min (De | 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.