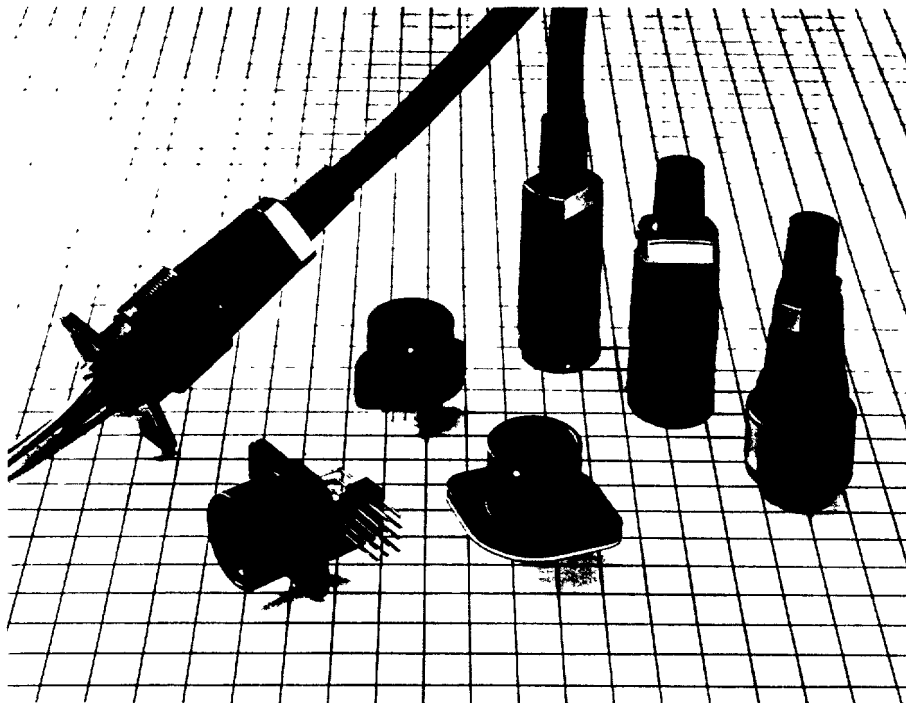


## RP5 SERIES

### Introduction

211-874 TO 211-928

RP5 series are 14 pin circular connectors for VTR used mainly for connection among video cameras, decks, tuners, etc. They are of "push-pull" lock system having light and robust plastic body.



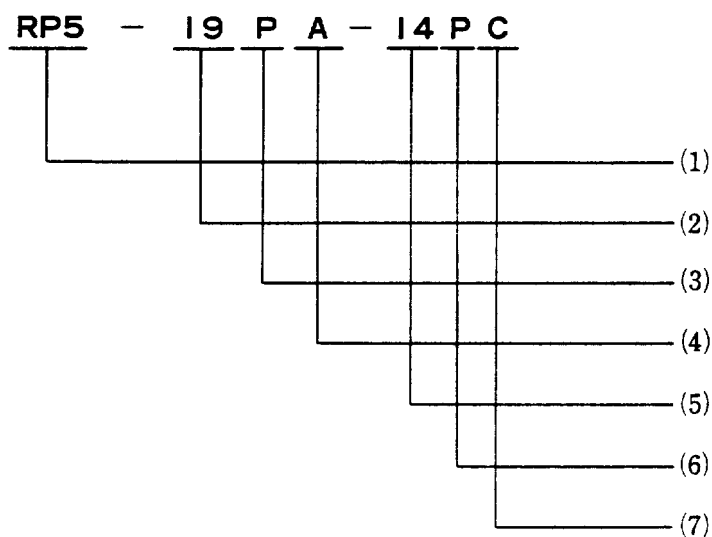
### Features

- 1. EASY "PUSH-PULL" OPERATION**  
One-touch "push-pull" coupling mechanism assures easy and quick connecting and disconnecting.
- 2. POLARIZATION**  
Positive connection to the specified position is made as guided by multiple keys.
- 3. PROTECTION OF CONNECTOR PIN**  
Connector Pins are arranged in a deep location in order to prevent bending of contacts due to handling.
- 4. THREE TYPES OF CONTACTS**  
Crimp contacts, straight dip solder contacts and right angle dip solder contacts are available for the receptacles, and suitable contacts may be selected in correspondence to the application.
- 5. SIMPLE AND REFINED APPEARANCE**  
The external form is simple and slim, and the frosted black appearance is well matched with any equipment.

## Material and Finish

Part name	Material	Finish
Molding and connector body	UL94V-0 Glass-filled polycarbonate	Black
Pin contact	Phosphor bronze	Silver plating
Socket contact	Phosphor bronze	Silver plating

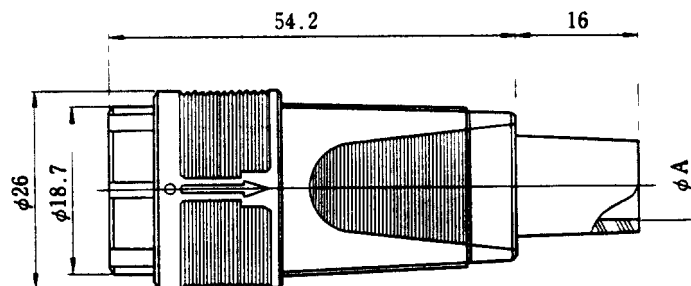
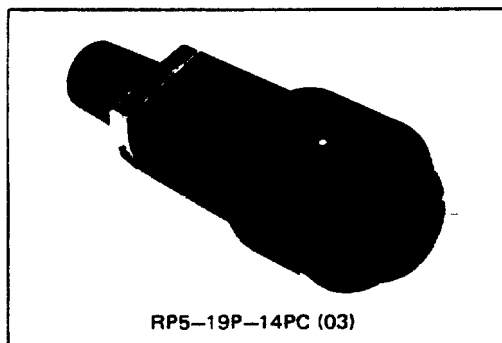
## Ordering Information



1. RP5: Series name.
2. 19: Shell size
3. P: Shell Type  
P: Plug  
R: Receptacle  
J: Jack
4. A: Distinction is made by A, B, C ... if types vary for the same connector configuration.
5. 14: No. of pin
6. P: Type of pin  
P: Male pin  
S: Female pin
7. C: The method of connection of terminals or the terminal configuration is identified by an alphabetic letter

# Plug

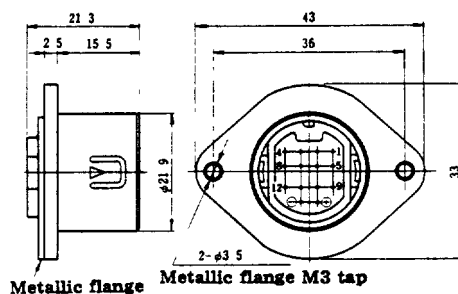
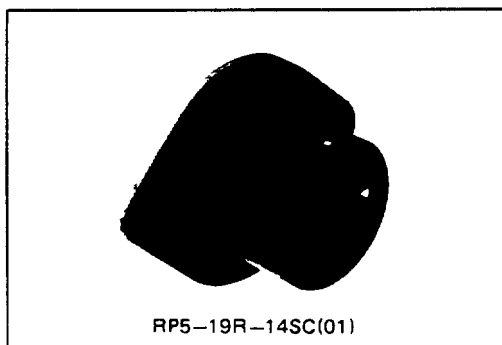
(Crimp type)



mm (inch)	
$\phi A$	
9.2 (0.362)	
6.8 (0.268)	
6.0 (0.236)	
5.7 (0.224)	

# Receptacle

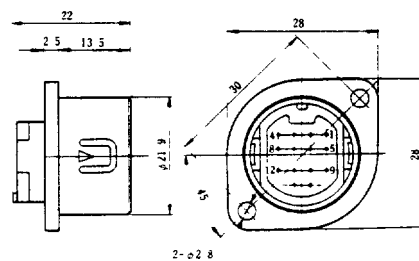
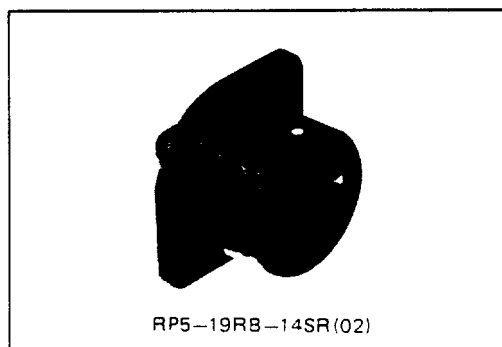
(Crimp type)



Remarks
Without metallic flange

Remarks: Refer to page 107 for mounting hole size.

(Crimp type)

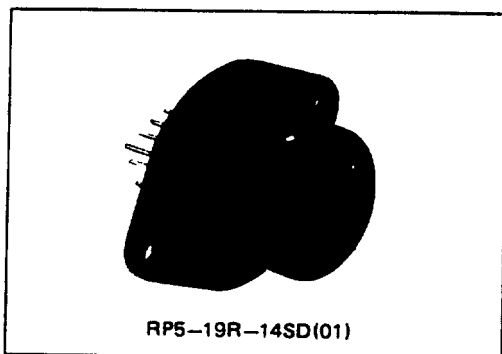


Part No.
RP5-19RB-14SR(02)

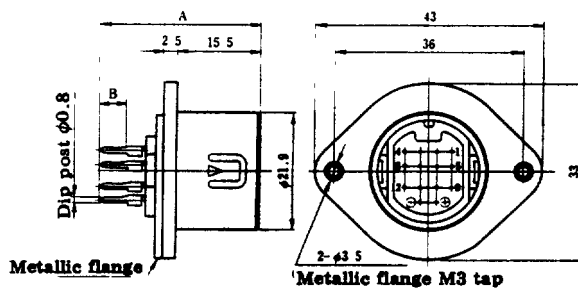
Remarks Refer to page 107 for mounting hole size

## Receptacle

(Straight dip type)



RP5-19R-14SD(01)

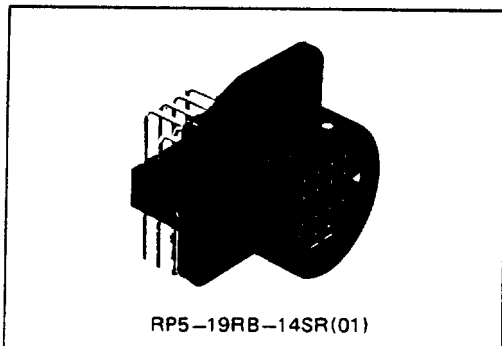


mm (inch)

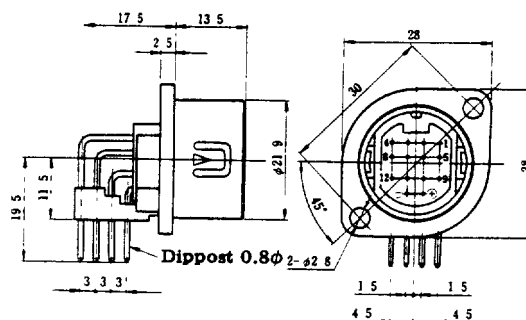
	A	B	Remarks
	33.3 (1.311)	8.3 (0.327)	Without metallic flange
	33.3 (1.311)	8.3 (0.327)	
	29 (1.142)	3.8 (0.327)	
	29 (1.142)	3.8 (0.150)	Without metallic flange
	25.9 (1.020)	3.8 (0.150)	Without metallic flange Dip post size 0.3x0.7

Remarks: Refer to page 107 for mounting hole size

(Right Angle dip type)

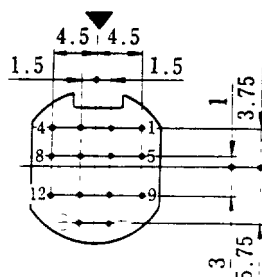


RP5-19RB-14SR(01)

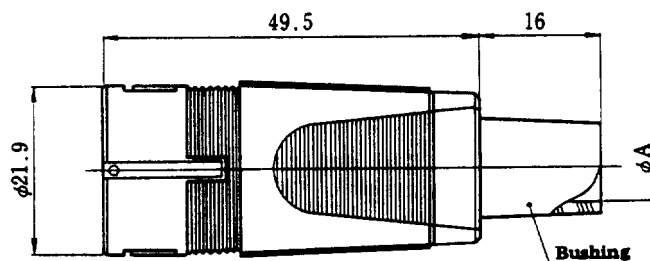
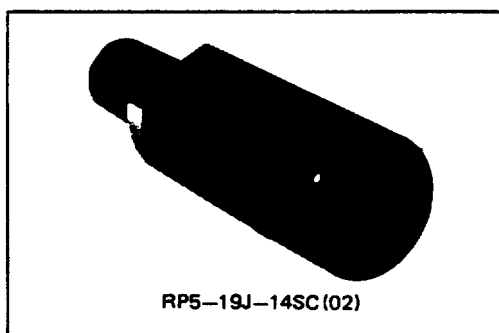


Part No.
RP5-19RB-14SR(01)

Dip Soldering Pattern



(Crimp type)

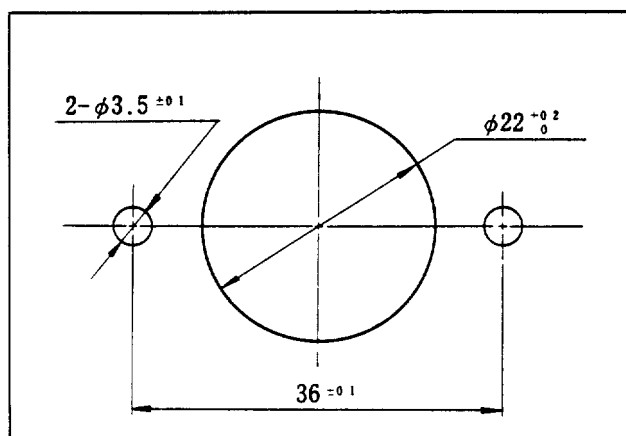


mm (inch)

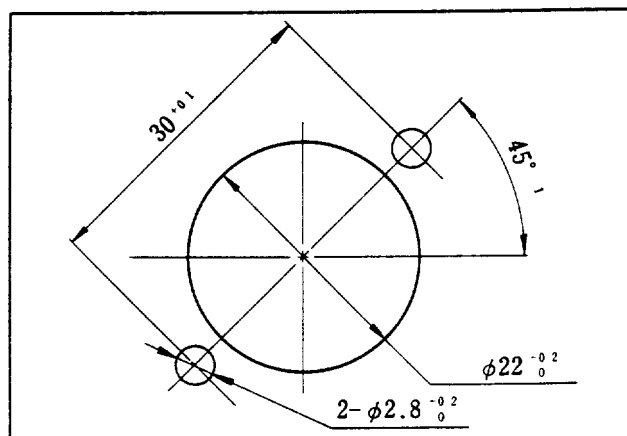
$\phi A$
9.2 (0.362)
6.8 (0.268)
Without bushing
5.7 (0.224)

## Mounting Cutout

RP5-19R and RP5-19RA type



RP5-19RB type

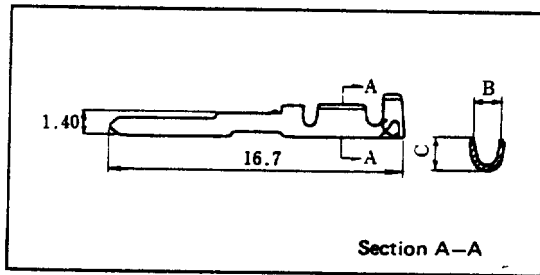


Note 1 Drawings indicate views from the panel surface side, and fitting guides of flange system are located in upper portions

Note 1 With a receptacle of flange system a connector is inserted from the back side of the panel. Therefore, the maximum allowable panel thickness is 4 mm.

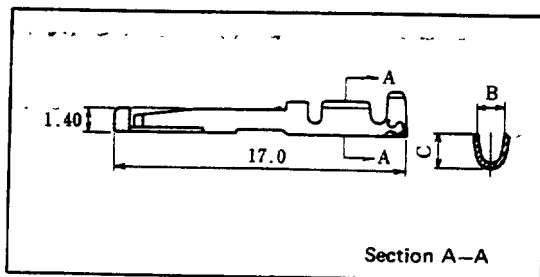
## Contact

### Male Pin



Type	mm (inch)			
	B	C	Applicable wire	Packing
Bulk contact	1.6 (0.063)	2 (0.079)	AWG #20 ~ #24	100 pin per bag
	1.45 (0.057)	1.5 (0.059)	AWG #24 ~ #28	
Chain contact	1.6 (0.063)	2 (0.079)	AWG #20 ~ #24	8,000 pin per reel
	1.45 (0.057)	1.5 (0.059)	AWG #24 ~ #28	

### Female Pin



Type	mm (inch)			
	B	C	Applicable wire	Packing
Bulk contact	1.6 (0.063)	2 (0.079)	AWG #20 ~ #24	100 pin per bag
	1.45 (0.057)	1.5 (0.059)	AWG #24 ~ #28	
Chain contact	1.6 (0.063)	2 (0.079)	AWG #20 ~ #24	8,000 pin per reel
	1.45 (0.057)	1.5 (0.059)	AWG #24 ~ #28	

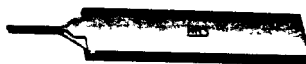
Note: 100 bulk contacts are contained per bag, and 8,000 chain contacts are provided per reel.

## Tools

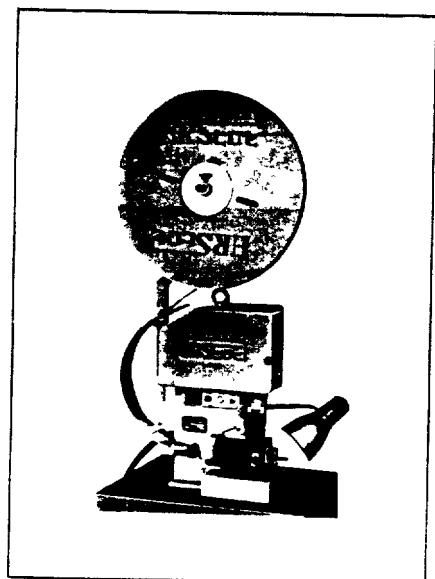
Type	Part No.	Applicable wire
Hand Crimp Tool	RM-TC	AWG #20 ~ #24
	RM-TC	AWG #24 ~ #28
Auto Crimp Tool	CM-103	—
Extraction Tool	RM-TP	—



Hand Crimping Tool

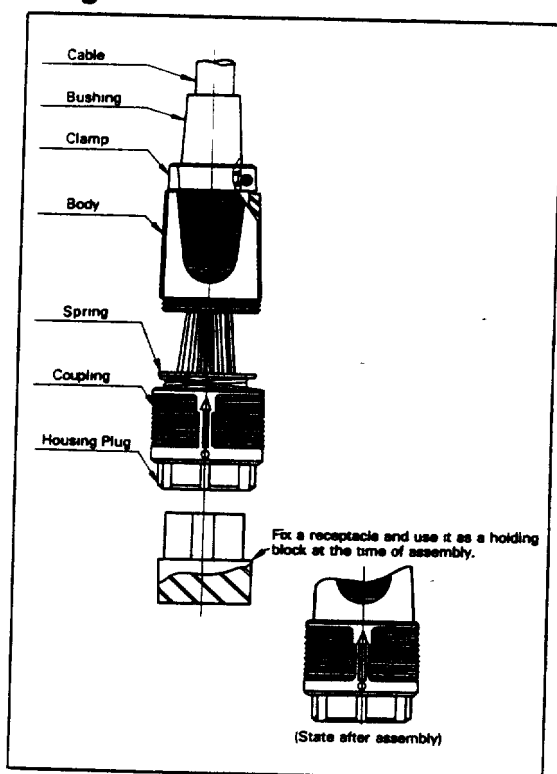


Extraction Tool



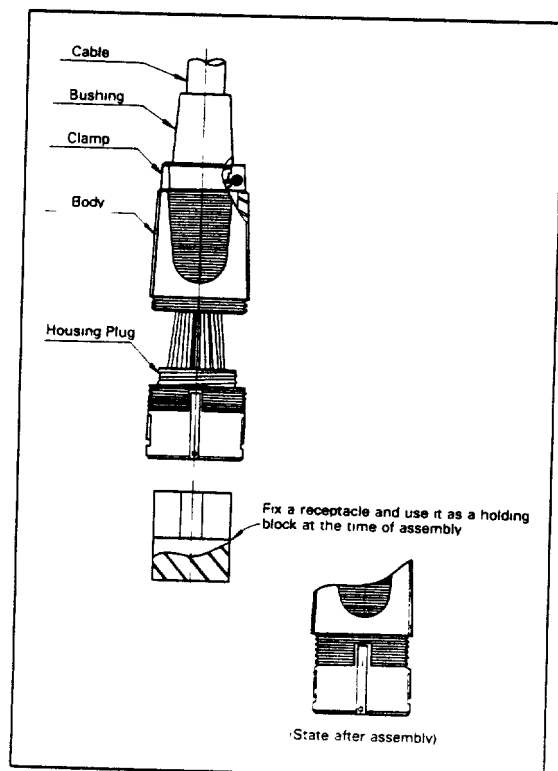
Auto Crimping Tool CM-103

## Plug



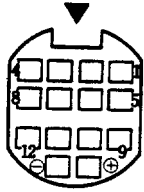
1. Fit the bushing in advance on wires having ends suitably treated, and then connect wires to terminals by crimp.
  2. Then fit the connector body and coupling in this order on wires, and then mount crimped contacts into the plug housing.
  3. Fix the plug housing by means of a holding block, and fasten the connector body. (Recommendable tightening torque 20 ~ 40 kg/cm) The state after assembly is as shown.
  4. Fix the cord clamp by screws (about 2 kg/cm), and the work is completed.
- consult with us or our distributor listed in the last page.

## Jack



1. Fit the bushing in advance on wires having suitably treated ends and connect wires to terminals by crimp, in the manner equal to that of a plug.
  2. The fit the connector body on wires, and mount crimped contacts into the socket housing.
  3. Fix the socket housing to the holding block, and fasten the connector body. (Recommendable tightening torque 20 ~ 40 kg/cm) The state after assembly is as shown.
  4. Fix the cord clamp by screws (about 2 kg/cm), and the work is completed.
- consult with us or our distributor listed in the last page.

## Contact Arrangement

Contact arrangement	
No. of pins	14
Withstand voltage	AC 900V for 1 minute
Current rating	(when AWG #20 wires are used)
Insulation resistance	1000M $\Omega$ Min. at DC 500V
Contact resistance	7m $\Omega$ Max. at DC 1A
Applicable cable	AWG #20 ~ 24 (large barrel) AWG #24 ~ 28 (small barrel)

- Remarks: 1. The figure indicates a view from the fitting face side (plug's wire connecting side) of the receptacle and jack.
2. The withstand voltage is indicated by the test voltage value. For normal use, 1/3 of the test voltage value should not be exceeded.