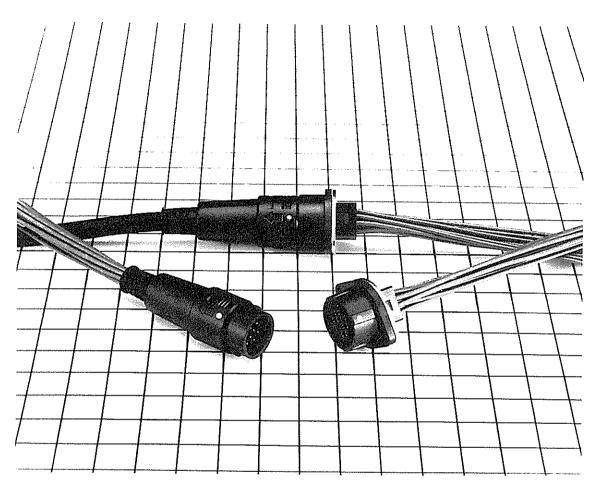
# TYPE RP17 PUSH-PULL LOCK CONNECTORS

### Scope

RP17 series connectors are designed for interfacing 8 mm video equipment and office automation equipment with miniature, lightweight, high durability 12 pin circular connectors.

RP17 series connectors are ideal for quick connection and disconnection by push-pull lock connection. The slim body will fit a varienty of electrical equipment.



### **Features**

- (1) One touch "push-pull lock" coupling mechanism assures easy and quick connecting and disconnecting, also assure high density mounting.
- (2) Use applicable cable AWG#18~#22 (shielded outer dia. 1.7 under) to 3 pins among 12 pins and other applicable cable AWG#24~#30 (shielded outer dia. 1.2 under) to be usable due to crimp terminal.
- (3) Mating guide keys is multiple polarizing to be ensured specified position.
- (4) Simple and slender appearance with internal installed cable clamp. External appearance is matte finish black color.
- (5) Mating position mark is located with white color, assures easy and quick connection and disconnection.

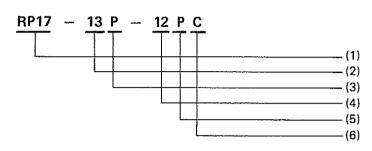
# **Application**

8 mm video equipment, Portable radio communications equipment, Remote Control equipment, Sound facilities and small electric devices.

### Material and Finish

Description Material  Shell and Insulator Glass-filled Polycarbonate (UL94V-0) or PBT resin		Finish
		Black
Male Pin	Phosphor bronze	Silver plating
Female Pin	Phosphor bronze	Silver plating

# **Ordering Information**



(1) RP17: Name of series

(2) 13: Size of shell, or outer dia. of mating section.

Size 13 is only available for this connector.

(3) P: Type of connector

P: Plug

R: Receptacle

J: Jack

(4) 12: Number of pins

12 pole only is available for this connector.

(5) P: Type of pin

P: Male pin

S: Female pin

(6) C: Type of connection method or type of

terminal are classified in alphabet.

# Plug

### Plug



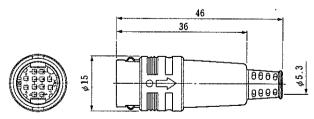
# B 36 6666 9999

(An example in shape)

HRS No.	Part No.	φΑ	В	RoHS
113-0501-0-71	RP17-13P-12PC(71)	5.3	46	^
113-0512-7-71	RP17-13PA-12PC(71)	6.1	51	J

# (Electrostatic Protection Type)



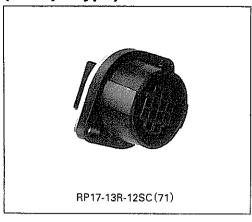


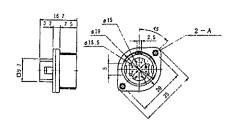
(An example in shape)

HRS No.	Part No.	RoHS
113-0551-9-71	RP17A-13P-12PC(71)	0

# Receptacle

# (Crimp Type)

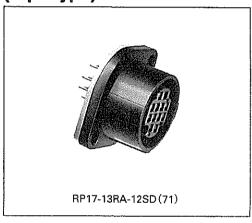


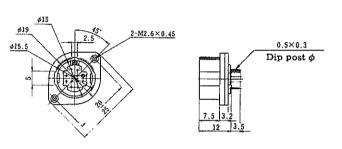


(An example in shape)

HRS No.	Part No.	Α	RoHS
113-0502-3-71	RP17-13R-12SC(71)	M2.6×0.45	0

# (Dip Type)





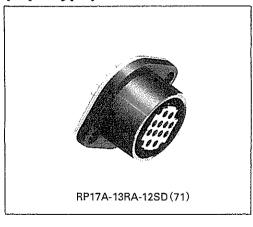
(An example in shape)

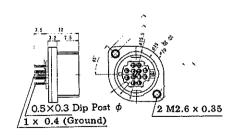
HRS No.	Part No.	RoHS
113-0511-4-71	RP17-13RA-12SD(71)	0

Remark: PCB layout is shown page 138.

# Receptacle(Electrostatic Protection Type)

# (Dip Type)





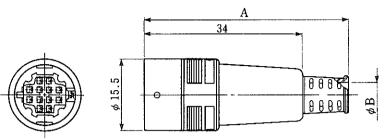
(An example in shape)

HRS No.	Part No.	RoHS
113-0553-4-71	RP17A-13RA-12SD(71)	0

Remark: PCB layout is shown page 138.

### Jack



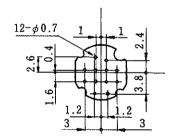


(An example in shape)

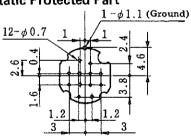
HRS	No.	Part No.	A	φВ	RoHS
113-051	5-5-71	RP17-13J-12SC(71)	44	5.3	
113-051	6-8-71	RP17-13JA-12SC(71)	49	6.1	

# **PCB** Layout

General Part



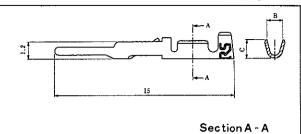
Electrostatic Protected Part



Note: The contact arrangement shows from the mating side of receptacle.

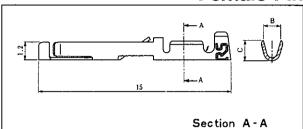
# Contact

# Male Pin



Туре	HRS No.	Part No.	В	С	Applicable Wire
Loose	113-0503-6	RP17-PC-112	1.6	2.1	AWG#18~#22
	113-0504-9	RP17~PC-122	1.2	1.35	AWG#24~#30
Chain	11305077	RP17-PC-212	1.6	2.1	AWG#18~#22
	113-0508-0	RP17-PC-222	1.2	1.35	AWG#24~#30

# Female Pin



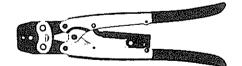
Type	HRS No.	Part No.	В	С	Applicable Wire
Ι.	11305051	RP17-SC-112	1.6	2.1	AWG#18~#22
Loose	113-0506-4	RP17-SC-122	1.2	1.35	AWG#24~#30
Chair.	113-0509-2	RP17-SC-212	1.6	2.1	AWG#18~#22
Chain	113-0510-1	RP17-SC-222	1.2	1.35	AWG#24~#30

Note: Loose piece terminals are offered in a package containing 100 pieces and terminal by reel containing 10,000 pieces.

# Applicable tools

Туре	Item	HRS No.	Part No.	Applicable terminal	Applicable wire
	Manual	150-0043-8	RP17-TC-11	RP17-PC-112	AWG#18~#22
Manual :	crimping tool	150-0044-0	RP17-TC-12	RP17-PC-122	AWG#24~#30
	Automatic crimping body	901-0005-4	CM-105	_	
Automatic		901-2036-9	AP105-RP17-1	RP17-PC-212	AWG#18~#22
	Applicator	901-2026-5	AP105~RP17-2	RP17-PC-222	AWG#24~#30
Cable c	rimping tool	150-0042-5	RP17-TC-01		_
Extractor		150-0039-0	RP6-SC-TP	_	_





**Hand Clamping Tool** 



**Extraction Tool** 

Auto Crimp Tool CM-105

HS.

**53H** 

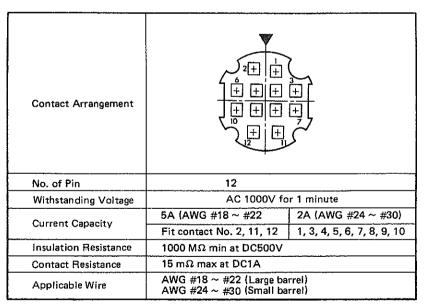
**Hand Crimp Tool** 

### **Assembling Procedure**

# Cable Body Spring Coupling Visual arrow mark section A Bushing Cable Clamper Plug Housing

- 1. Fit the body, spring, coupling and bushing respectively in advance on wires having ends suitably treated, and then connect wires to terminals by crimp.
- Then mount crimped contacts into the plug housing. After mounting, pull the wire slightly and make sure if the contact is mounted.
- Fix a cable clamper to the bushing, insert it into the plug housing, and then crimp cable clamper with tool RP17—TC-01.
- Assemble coupling, spring and body respectively to plug housing, and mount it with the attached screw by means of torque wrench (2 kg-cm), and the work is completed.
- Put the cable bushing over the clamp body to complete the job.

### **Contact Arrangement**



### Remarks:

- The figure indicates a view from the fitting face side (Plug's wire connecting) of the receptacle and jack.
- 2. The withstading voltage is indicated by the test voltage value.