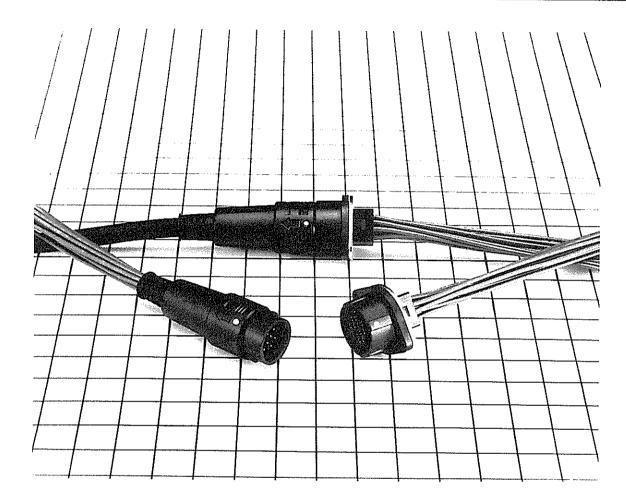
# **TYPE RP17 PUSH-PULL LOCK CONNECTORS**

### 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

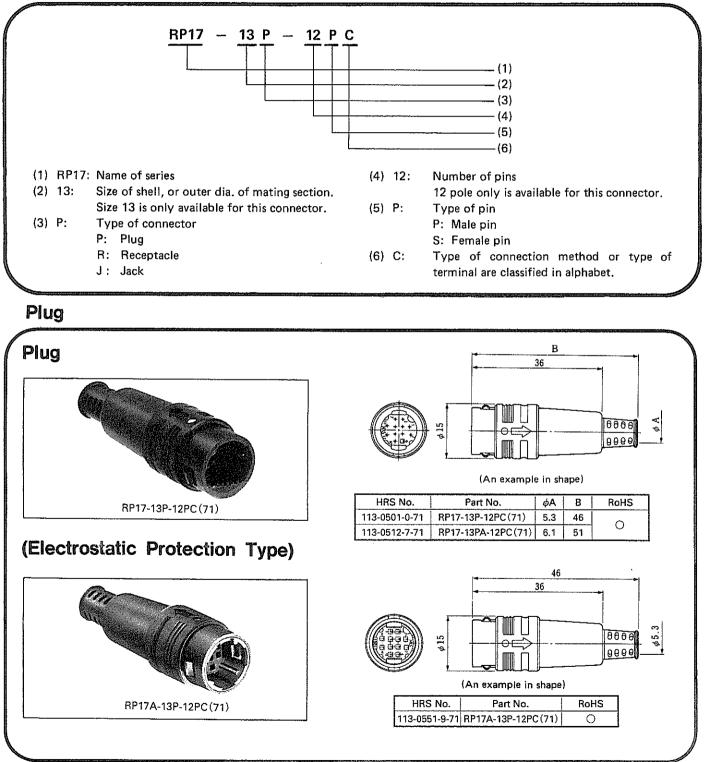
8 mm video equipment, Portable radio communications equipment, Remote Control equipment, Sound facilities and small electric devices.

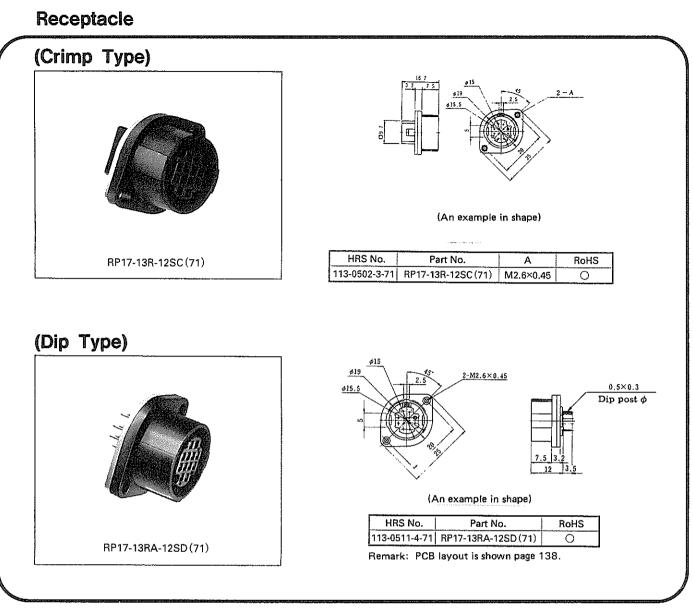
6

### **Material and Finish**

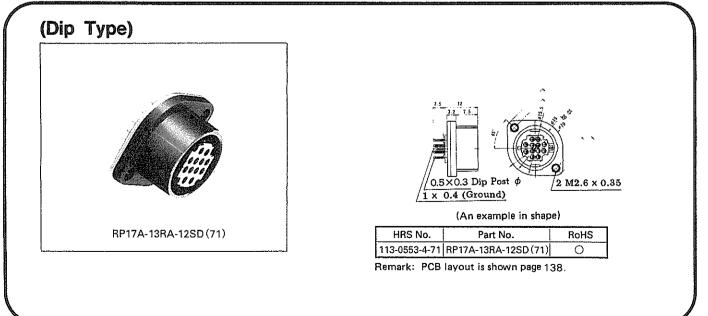
Description	Material	Finish
Shell and Insulator	Glass-filled Polycarbonate (UL94V-0) or PBT resin	Black
Male Pin	Phosphor bronze	Silver plating
Female Pin	Phosphor bronze	Silver plating

### **Ordering Information**

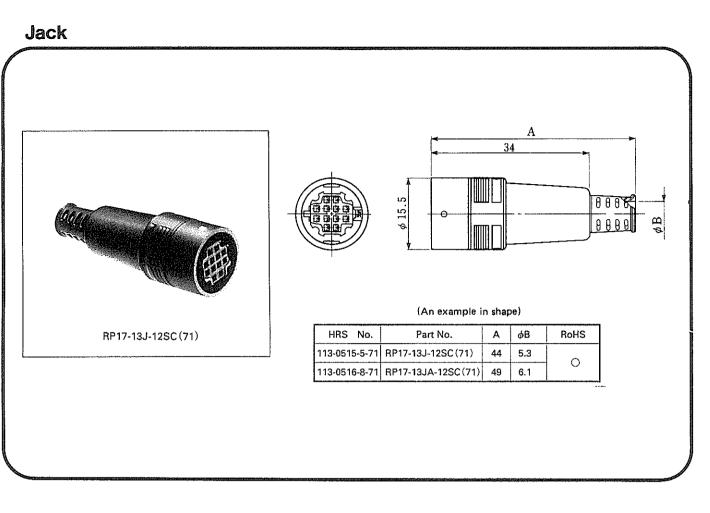




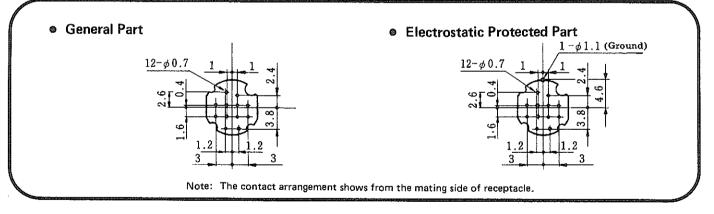
### **Receptacle(Electrostatic Protection Type)**



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## **PCB** Layout



### Contact

			Male	Pin					
				в Ту	e HRS No.	Part No.	B	с	Applicable W
			<u>⊷</u> ^		113-0503-6	RP17-PC-112	1.6	2.1	AWG#18~~#
~					se 113-0504-9	RP17~PC-122	1.2	1.35	AWG#24~~#
~ <u>i                                     </u>		~~			, 113-0507-7	RP17-PC-212	1.6	2.1	AWG#18~~#
			<b>→</b> A	Cha	113-0508-0	RP17-PC-222	1.2	1.35	AWG#24~~#
			Section A - A	Pin					
		J <b>a</b>	A	Тур	e HRS Na.	Part No.	В	С	Applicable V
			<u> </u>	<u>]</u>	11305051	RP17-SC-112	1.6	2.1	AWG#18~+
M			~ <b>~~~</b> !!!		se 113-0506-4	RP17-SC-122	1.2	1.35	AWG#24~+
		· · · · · · · · · · · · · · · · · · ·	<u> </u>	Cha	in 113-0509-2	RP17-SC-212	1.6	2.1	AWG#18~
			A		113-0510-1	RP17-SC-222	1.2	1.35	AWG#24~-‡
l=		15	<b>-</b> /	Note:	Loose piece termin		•	-	aining 100 pie
		Ş	Section A-A		and terminal by re	si sontaning ro,o			
pplic	able to	ols							
pplic	ltem	OIS HRS No.	Part No.	Applicable terminal	Applicable wire		941 (al 1) a 1) ann a 1 a 1 a 1		
Туре	ltem		Part No. RP17-TC-11		Applicable wire				
		HRS No.		RP17-PC-112				9-0-00-005-0 	
Type Manual	Item Manual	HRS No. 150-0043-8	RP17-TC-11		AWG#18~#22		999 - 499 - 499 - 499 - 499 - 499 - 499 - 499 - 499 - 499 - 499 - 499 - 499 - 499 - 499 - 499 - 499 - 499 - 499	9	
Туре	Item Manual crimping tool Automatic crimping body	HRS No. 150-0043-8 150-0044-0	RP17-TC-11 RP17-TC-12	RP17-PC-112	AWG#18~#22				
Type Manual	Item Manual crimping tool Automatic	HRS No. 150-0043-8 150-0044-0 901-0005-4	RP17-TC-11 RP17-TC-12 CM-105	RP17- <sup>PC</sup> -112 RP17- <sup>PC</sup> -122 –	AWG #18~ #22 AWG #24~ #30 		H	৬	
Type Manual Automatic	Item Manual crimping tool Automatic crimping body	HRS No. 150-0043-8 150-0044-0 901-0005-4 901-2036-9	RP17-TC-11 RP17-TC-12 CM-105 AP105-RP17-1	RP17- <sup>PC</sup> -112 RP17- <sup>PC</sup> -122 - RP17- <sup>PC</sup> -212	AWG # 18~ # 22 AWG # 24~ # 30  AWG # 18~ # 22		H	र इ	
Type Manual Automatic Cable (	Item Manual crimping tool Automatic crimping body Applicator	HRS No. 150-0043-8 150-0044-0 901-0005-4 901-2036-9 901-2026-5	RP17-TC-11 RP17-TC-12 CM-105 AP105-RP17-1 AP106-RP17-2	RP17-PC SC 112 RP17-PC SC 122  RP17-PC SC 212 RP17-PC SC 222	AWG # 18~ # 22 AWG # 24~ # 30  AWG # 18~ # 22		H	સ્ક	
Type Manual Automatic Cable (	Item Manual crimping tool Automatic crimping body Applicator	HRS No. 150-0043-8 150-0044-0 901-0005-4 901-2036-9 901-2026-5 150-0042-5	RP17-TC-11 RP17-TC-12 CM-105 AP105-RP17-1 AP105-RP17-2 RP17-TC-01	RP17-PC-112 RP17-PC-122  RP17-PC-212 RP17-PC-212 RP17-PC-212 	AWG # 18~ # 22 AWG # 24~ # 30  AWG # 18~ # 22 AWG # 24~ # 30 -		Ì,	ઙ	
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Type Manual Automatic Cable o E:	Item Manual crimping tool Automatic crimping body Applicator crimping tool dractor	HRS No. 150-0043-8 150-0044-0 901-0005-4 901-2036-9 901-2026-5 150-0042-5 150-0039-0	RP17-TC-11 RP17-TC-12 CM-105 AP105-RP17-1 AP105-RP17-2 RP17-TC-01	RP17-PC-112 RP17-PC-122  RP17-PC-212 RP17-PC-212 RP17-PC-222  	AWG # 18~ # 22 AWG # 24~ # 30  AWG # 18~ # 22 AWG # 24~ # 30 - - -		5	К	np Tool

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### **Assembling Procedure**

# Plug

- 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.
- 2. Then mount crimped contacts into the plug housing. After mounting, pull the wire slightly and make sure if the contact is mounted.
- 3. Fix a cable clamper to the bushing, insert it into the plug housing, and then crimp cable clamper with tool RP17-TC-01.
- 4. 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.
- 5. Put the cable bushing over the clamp body to complete the job.

# **Contact Arrangement**

Contact Arrangement			
No. of Pin	12		
Withstanding Voltage	AC 1000V for 1 minute		
	5A (AWG #18 ~ #22	2A (AWG #24 ~ #30)	
Current Capacity	Fit contact No. 2, 11, 12	1, 3, 4, 5, 6, 7, 8, 9, 10	
Insulation Resistance	1000 MΩ min at DC500V		
Contact Resistance	15 mΩ max at DC1A		
Applicable Wire	AWG #18 ~ #22 (Large barrel) AWG #24 ~ #30 (Small barrel)		

Remarks:

1. 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.

# **Mouser Electronics**

Authorized Distributor

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Hirose Electric:

RP17-13P-12PC(71)
RP17-13R-12SC(02)
RP17-13R-12SC(71)
RP17-PC-112
RP17-PC-122
RP17-SC-112
RP17-SC-12SC(71)
RP17-SC