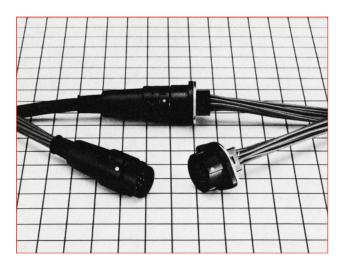
Small-sized, plastic type, push-pull lock connectors

RP17 Series



■Features

1. Superior mating operability

- · Secure mating and easy unmating is achieved by a push-pull locking mechanism.
- · White index markings are provided on the mating positions of the plug for easy mating alignment.
- Our proprietary guide key allows for blind mating conditions to be accomplished easily.

2. Light weight and robust design

The strong outer shell is made of glass-reinforced polycarbonate resin, and produces a light but highly durable connectors.

3. Anti-static electricity type

The metal plates in the receptacle protect the signal lines from static electricity.

 -55° C: 30 minutes \rightarrow Normal temperature: 10 to 15 minutes \rightarrow

85°C: 30 minutes → Normal Temperature: 10 to 15 minutes,

Temperature: 40°C, relative humidity: 90 to 95%,

Product Specifications

	Rated current	Contact numbers 1, 3 to 10: 2 A (v Contact numbers 2, 11, 12: 5 A (w	Operating temperature range	−10 to +60°C		
Ratings	current	Contact numbers 2, 11, 12. 5 A (w	rien using a wife of at least 22 AWG)	ļ ' J		
r idii igo	Rated	AC100\	/ DC140V	Storage	10 40 1 0000	
	voltage	AC100V, DC140V		temperature range	–10 to +60°C	
Items		Specifications	Conditions			
1100		•	00114111			
1. Contact resistance	15mΩ max. DIP Type : $20mΩ$ max.		Measured at DC 1A			
1. Contact resistance			iviedsured at DC TA			
2. Insulation	1,000MΩ min.		Manager det DO 500V			
resistance			Measured at DC 500V			
3. Withstanding	No flashover or dielectric breakdown.		AO 1000V for 1 minute			
voltage			AC 1000V for 1 minute			
4. Vibration	No elect	trical discontinuity for 10 μ s or	10 to 55Hz/cycle, amplitude : 0.75mm, 3 axis directions,			
resistance	greater.		2 hours each direction			
5. Shock resistance	No electrical discontinuity for 10 \mu s or		Acceleration: 490m/s², duration: 11ms, 3 axis directions,			
5. SHOCK TESISIATICE	greater.		3 times each direction			
O Malian alam	Contact resistance : 20mΩ max.		4.000 #:			
6. Mating cycles	Dip type	: 25mΩ max.	1,000 times			

Materials / Finish

8. Moisture

resistance

7. Temperature cycle Insulation resistance : $1,000M\Omega$ min.

(at high humidities)

100M Ω min. (when dry)

Insulation resistance : $10M\Omega$ min.

Items		Material	Material Finish	
	Shell, insulator	Polycarbonate resin		UL94V-0
Plug	Clamp	Brass		
	Bushing	Vinyl chloride resin		
	Shell, insulator	Poly carbonate resin		UL94V-0
Receptacle		Steel	Nickel plating	
	Female contact	Phosphor bronze	Silver plating	
Crimped female contact	Crimped female contact Female contact		Silver plating	
Crimped male contact	Male contact	Phosphor bronze	Silver plating	

left for 5 cycles

left for 96 hours

■Product Number Structure

Refer to the chart below when determining the product specifications from the product number. Please select from the product numbers listed in this catalog when placing orders.

Plug

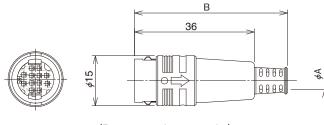
Model name : RP17 Series	6 Number of contacts
2 Type identification	Ocontact form
No marking : Standard type	S : Female contact
A : Anti-static electricity type	P : Male contact
3 Shell size: The shell size is measured at the outer	Contact termination method:
diameter of the mating interface of the plug.	C : Contact termination by crimping
4 Shell type	D : Straight PCB dipping method
P : Straight plug	Other specifications : A two-digit character is added to
R : Receptacle	indicate other specifications when needed.
J: Jack	
6 Shell variation : Connectors are distinguished by A, B, or	
C if another variation is applied in the same form.	

Crimp contact

1 Model name : RP17	Applicable wire gauge
Contact type :	1 : For 18 to 22 AWG
SC : Crimped female contact	2 : For 24 to 30 AWG
PC : Crimped male contact	Type of plating
Contact form	2 : Silver plating
1 : Loose piece contacts	
2 : Reel contacts	

■Plug (standard type)





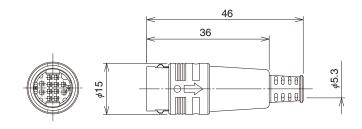
(Representative example.)

Part No.	HRS No.	φA	В	
RP17-13P-12PC(71)	113-0501-0 71	113-0501-0 71 5.3		
RP17-13PA-12PC(71)	113-0512-7 71	6.1	51	

Note: Cable clamping force, cable rotation force, and other aspects may differ depending on the cable construction. We recommend that you verify the suitability of the cable assembly before use or production.

Plug (anti-static electricity type)





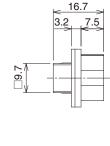
Part No.	HRS No.
RP17A-13P-12PC(71)	113-0551-9 71

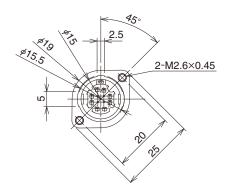
Note: Cable clamping force, cable rotation force, and others aspects may differ depending on the cable construction. We recommend that you verify the suitability of the cable assembly before use or production.

Receptacle (standard type)

(Crimping type)





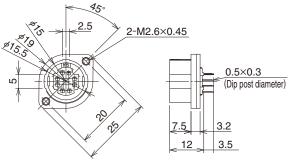


Part No.	HRS No.
RP17-13R-12SC(71)	113-0502-3 71

■Receptacle (standard type)

(PCB dip type)





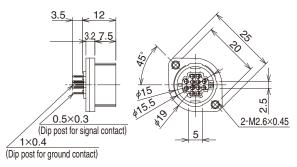
Part No.	HRS No.
RP17-13RA-12SD(71)	113-0511-4 71

Remarks: See page 5 for details on dip post assignment and layout.

■Receptacle (anti-static electricity type)

(PCB dip type)





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

Remarks: See page 5 for details on dip post assignment and layout.

■Jack (standard type)



		A 34	
10 90 0 m	ø 15.5		9 9 9 9 B

(Representative example.)

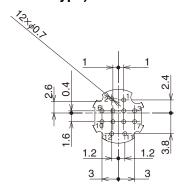
Part No.	HRS No.	Α	φB	
RP17-13J-12SC(71)	113-0515-5 71	5 71 44		
RP17-13JA-12SC(71)	113-0516-8 71	49	6.1	

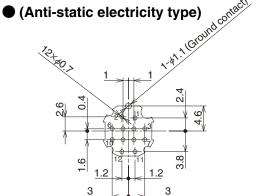
Note: Cable clamping force, cable rotation force, and others aspects may differ depending on the cable construction. We recommend that you verify the suitability of the cable assembly before use or production.

Dip post assignment and layout for receptacles

(Figures show as when viewed from the receptacle mating side.)

● (Standard type)

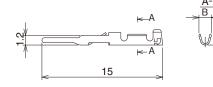




Remarks : The machining tolerance of ± 0.05 is recommended for the PCB layout dimensions.

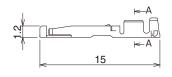
■Contact

Male contact





Female contact





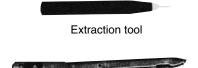
	Туре	Part No.	HRS No.	В	С	Applicable wire size
	Loose piece	RP17-SC-112	113-0505-1	1.6	2.1	18 to 22 AWG
	contacts	RP17-SC-122	113-0506-4	1.2	1.35	24 to 30 AWG
	Reel	RP17-SC-212	113-0509-2	1.6	2.1	18 to 22 AWG
С	contacts	RP17-SC-222	113-0510-1	1.2	1.35	24 to 30 AWG

Applicable tools

Type	Items	Part No.	HRS No.	Applicable contact	Applicable wire size
Manual	Manual crimping tools	RP17-TC-11	150-0043-8	RP17-PC-112	18 to 22 AWG
		RP17-TC-12	150-0044-0	RP17-PC-122	24 to 30 AWG
Auto	Automatic crimping press	CM-105C	901-0001-0		
	Applicator	AP105-RP17-1	901-2036-9	RP17-PC-212	18 to 22 AWG
		AP105-RP17-2	901-2026-5	RP17- ^{PC} -222	24 to 30 AWG
Cable crimping tool		RP17-TC-01	150-0042-5		
Extraction tool		RP6-SC-TP	150-0039-0		



Cable crimping tool (The handle shape shown is a representative example.)



Manual crimping tools

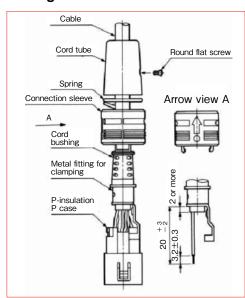


Automatic crimping press (Type CM-105C)



▼ Termination procedure

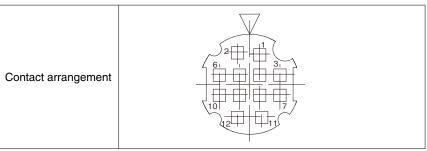
Pluq



Operation procedure

- 1. First, pass the terminated cable in the following order through the: cord tube, spring, connection sleeve, and cord bushing. Then crimp and terminate the contacts.
- Assemble the crimped and terminated contacts to the contact holes of the P-insulation P case. At this time, please make sure that the crimped contacts are securely engaged onto the contact holes of the P-insulation P case by slightly pulling on the cable.
- 3. Attach the metal fitting by clamping to it the cord bushing and assemble these into the P-insulation P case. Then crimp the metal fitting by clamping it with the applicable tool (RP17-TC-01).
- 4. Next, attach in the following order to the P-insulation P case: connection sleeve, spring, and cord. Then align the screw hole of the cord tube and that of the metal fitting for clamping, and tighten the round flat screw to the specified torque of 0.2 N·m (2 kg·cm).
- After the assembly procedure described above has been completed, please make sure that the connection sleeve moves correctly.

● Contact arrangement



Remarks: 1. The figure shows the receptacle when viewed from the mating end (plug connection end).

Precautions

This product series uses silver plated contacts. Silver reacts easily to exposure to sulfur gas so the below conditions may cause tarnishing.

- Dusty environments
- Area with a high concentration area of gases such as sulfur dioxide gas, hydrogen sulfide gas, nitrogen dioxide gas and so on. Example; In close proximity to factory exhaust, automotive emissions, etc.
- ·Close to heaters, or in other areas marked by extreme temperature differences or high humidity.
- ·Close to rubber products includes rubber adhesives.

The Electrical connection is not affected by tarnishing on a silver surface due to the wiping effect of the contact pins.

Storage

Packing state; Packed in original packing or equivalent container

Temperature -10 to +60°C Humidity 85% Max

(It is recommended that the product be stored in an area of normal level of temperature and humidity, and free of any temperature fluctuation)

Please use this products within 6 months of delivery.

(After 6 month, please check the solderbility before use)

"Storage" means long-term storage of the unused products in sealed packaging, prior to assembly to PCB.



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