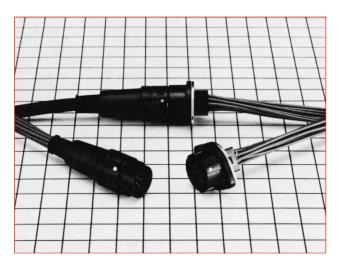
Small-sized, plastic type, push-pull lock connectors

RP17 Series



Dip type: 25mΩ max.

(at high humidities)

100M Ω min. (when dry)

Insulation resistance: 10MΩ min.

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

■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 → Normal temperature : 10 to 15 minutes →

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

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

Product Specifications

	Rated	, , , , , , , , , , , , , , , , , , , ,		Operating	–10 to +60°C	
Datings	current	Contact numbers 2, 11, 12: 5 A (w	temperature range	, -10 10 1000		
Ratings	Rated	AC100V, DC140V		Storage -10 to +60°C		
	voltage			temperature range	erature range	
Items		Specifications	Specifications Conditi		ons	
1 Contact vasiatores	15mΩ m	ax.	Managered at DC 1A			
Contact resistance	DIP Typ	e : 20mΩ max.	Measured at DC 1A			
2. Insulation	1,000MΩ min.		Massured at DC 500V			
resistance	וויסטטוען ו	2 111111.	Measured at DC 500V			
3. Withstanding	Withstanding No flashover or dielectric breakdown.		AC 1000V for 1 minute			
voltage	INO IIASII	over of dielectric breakdown.	AC 1000V for 1 fillinate			
4. Vibration	No elect	rical 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 elect	rical discontinuity for 10 μ s or	Acceleration: 490m/s², duration: 11ms, 3 axis directions,			
5. SHOCK TESISTATICE	greater.		3 times each direction			
Contact resistance : 20mΩ max.						

1,000 times

left for 5 cycles

left for 96 hours

Materials / Finish

6. Mating cycles

8. Moisture

resistance

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

■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

$$\frac{\mathsf{RP17}}{\bullet} \ \frac{\mathsf{A}}{\bullet} \ - \ \frac{\mathsf{13}}{\bullet} \ \frac{\mathsf{P}}{\bullet} \ \frac{\mathsf{A}}{\bullet} \ - \ \frac{\mathsf{12}}{\bullet} \ \frac{\mathsf{S}}{\bullet} \ \frac{\mathsf{C}}{\bullet} \ \frac{(01)}{\bullet}$$

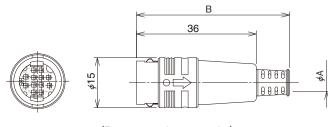
Model name: RP17 Series	6 Number of contacts		
2 Type identification	7 Contact form		
No marking : Standard type	S : Female contact		
A : Anti-static electricity type	P : Male contact		
3 Shell size: The shell size is measured at the outer	Contact termination method:		
diameter of the mating interface 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
Ocontact form	2 : Silver plating
1 : Loose piece contacts	
2 : Reel contacts	

■Plug (standard type)





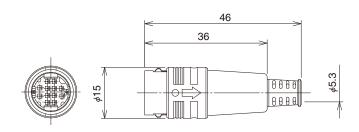
(Representative example.)

Part No.	HRS No.	φA	В	
RP17-13P-12PC(71)	113-0501-0 71	5.3	46	
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)





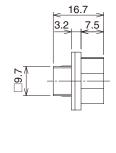
Part No.	HRS No.
RP17A-13P-12PC(71)	113-0551-9 71

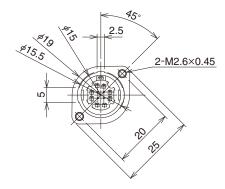
Note: Cable clamping force, cable rotation force, and others aspects may differ depending on the cable construction. We recommend that you verify the suitability of the cable assembly before use or production.

Receptacle (standard type)

(Crimping type)





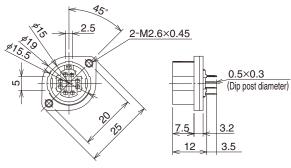


Part No.	HRS No.
RP17-13R-12SC(71)	113-0502-3 71

■Receptacle (standard type)

(PCB dip type)





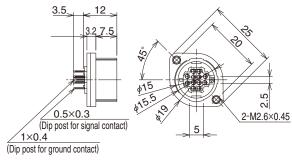
Part No.	HRS No.
RP17-13RA-12SD(71)	113-0511-4 71

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	
(1990) TO (1990)	¢ 15.5	0000	øB
	(Representative	e example.)	

 Part No.
 HRS No.
 A
 φB

 RP17-13J-12SC(71)
 113-0515-571
 44
 5.3

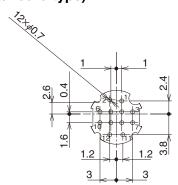
 RP17-13JA-12SC(71)
 113-0516-871
 49
 6.1

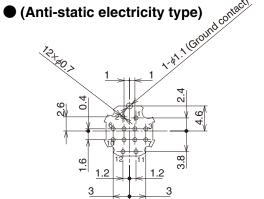
Note: Cable clamping force, cable rotation force, and others aspects may differ depending on the cable construction. We recommend that you verify the suitability of the cable assembly before use or production.

Dip post assignment and layout for receptacles

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

● (Standard type)

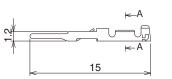




Remarks : The machining tolerance of ± 0.05 is recommended for the PCB layout dimensions.

■Contact

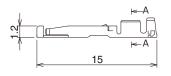
Male contact





Type	Part No.	HRS No.	В	С	Applicable
Туре	raitino.	11110 110.			wire size
Loose piece	RP17-PC-112	113-0503-6	1.6	2.1	18 to 22 AWG
contacts	RP17-PC-122	113-0504-9	1.2	1.35	24 to 30 AWG
Reel	RP17-PC-212	113-0507-7	1.6	2.1	18 to 22 AWG
contacts	RP17-PC-222	113-0508-0	1.2	1.35	24 to 30 AWG

Female contact





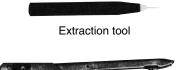
Туре	Part No.	HRS No.	В	С	Applicable wire size
Loose piece	RP17-SC-112	113-0505-1	1.6	2.1	18 to 22 AWG
contacts	RP17-SC-122	113-0506-4	1.2	1.35	24 to 30 AWG
Reel	RP17-SC-212	113-0509-2	1.6	2.1	18 to 22 AWG
contacts	RP17-SC-222	113-0510-1	1.2	1.35	24 to 30 AWG

Applicable tools

Туре	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

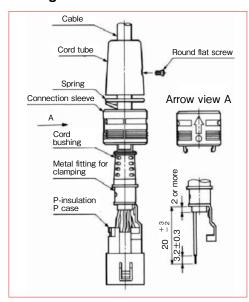


Automatic crimping press (Type CM-105C)



◆ Termination procedure

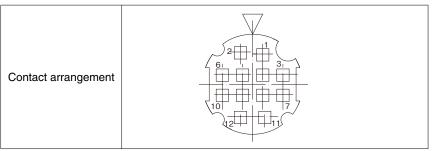
Plug



Operation procedure

- 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 0.15 to 0.2N·m.
 - In addition, in order to prevent loosening of the screw, please apply Locktight 243 manufactured by Henkel Japan Ltd., Tokyo or equivalent.
- 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.

Please note that the white label on the connector may come off due to solvents such as alcohol.

HIROSE ELECTRIC CO.,LTD.

2-6-3,Nakagawa Chuoh,Tsuzuki-Ku,Yokohama-Shi 224-8540,JAPAN https://www.hirose.com/