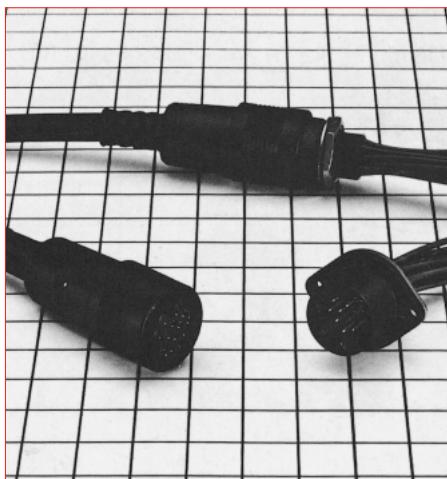


Plastic Push-Pull Lock Connectors

RP13 Series



■ Features

1. Superior mating operability

- A secure mating condition is achieved by simply pushing the plug on to the receptacle; Pull back on the locking sleeve to easily un-mate the connector.
- Index marks are provided on the plug for easy mating alignment.
- Our proprietary guide keys aid with making a correct mating orientation in blind or low light conditions.

2. Light weight and robust design

The strong outer shell is made of glass-reinforced polycarbonate resin, producing light but durable connectors.

3. Available in an anti-static version

The anti-static version connects the plug and receptacle housing together in such a way that the surrounding shield guards against the effects of static electricity.

4. Variation

Items	
Number of contacts	13, 20
Connector type	Plug and jack: Straight, Receptacle: Straight, right angle
Plug termination type	Crimp
Receptacle termination type	Crimp, PCB dip
Receptacle mounting style	Flange, jam nut

■ Product Specifications

Ratings	Rated current Anti-static type : 2A (when using a wire of at least 24 AWG) Standard type : 2A (when using a wire of at least 22 AWG)	Operating temperature range -10 to +60°C
	Rated voltage For 13 contact positions : AC 30V, DC 42V 20 contacts : AC 100V, DC 140V	Storage temperature range -10 to +60°C

Items	Specifications	Conditions
1. Contact resistance	For 13 contact positions : 15mΩ max. 20 contacts : 30mΩ max.	Measured at DC 1A
2. Insulation resistance	1,000MΩ min.	Measured at DC 250V
3. Withstanding voltage	No flashover or dielectric breakdown.	AC 300V for 1 minute
4. Vibration resistance	No electrical discontinuity for 10μs or greater.	10 to 55Hz/cycle, amplitude : 0.75mm, 3 axis directions, 2 hours each
5. Shock resistance	No electrical discontinuity for 10μs or greater.	Acceleration : 490m/s ² , duration : 11ms, 3 axis directions, 3 cycles each
6. Mating cycles	Contact resistance : For 13 contact positions : 20mΩ max. For 20 contact positions : 45mΩ max.	1,000 times
7. Temperature cycle	Insulation resistance : 100MΩ min.	-55°C : 30 minutes → Normal temperature : 10 to 15 minutes → 85°C : 30 minutes → Normal temperature : 10 to 15 minutes, leave total 5 cycles
8. Moisture resistance	Insulation resistance : 10MΩ min. (at high humidity) 100MΩ min. (when dry)	Temperature : 40°C, relative humidity : 90 to 95%, leave 96 hours

■ Materials / Finish

Items	Material	Finish	Remarks
Plug	Exterior, insulator	Polycarbonate resin	UL94V-0
	Clamp	Brass	
	Bushing	Vinyl chloride resin	

Алматы (7273)495-231

Ангарск (3955)60-70-56

Архангельск (8182)63-90-72

Астрахань (8512)99-46-04

Барнаул (3852)73-04-60

Белгород (4722)40-23-64

Благовещенск (4162)22-76-07

Брянск (4832)59-03-52

Владивосток (423)249-28-31

Владикавказ (8672)28-90-48

Владимир (4922)49-43-18

Волгоград (844)278-03-48

Вологда (8172)26-41-59

Воронеж (473)204-51-73

Екатеринбург (343)384-55-89

Иваново (4932)77-34-06

Ижевск (3412)26-03-58

Иркутск (395)279-98-46

Казань (843)206-01-48

Калининград (4012)72-03-81

Калуга (4842)92-23-67

Кемерово (3842)65-04-62

Киров (8332)68-02-04

Коломна (4966)23-41-49

Кострома (4942)77-07-48

Краснодар (861)203-40-90

Красноярск (391)204-63-61

Курган (3522)50-90-47

Курган (3522)50-90-47

Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13

Москва (495)268-04-70

Мурманск (8152)59-64-93

Навережные Челны (8552)20-53-41

Нижний Новгород (831)429-08-12

Новокузнецк (3843)20-46-81

Ноябрьск (3496)41-32-12

Новосибирск (383)227-86-73

Омск (3812)21-46-40

Орел (4862)44-53-42

Оренбург (3532)37-68-04

Пенза (842)22-31-16

Петрозаводск (8142)55-98-37

Псков (8112)59-10-37

Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15

Рязань (4912)46-61-64

Самара (846)206-03-16

Санкт-Петербург (812)309-46-40

Саратов (845)249-38-78

Севастополь (8692)22-31-93

Саранск (8342)22-96-24

Симферополь (3652)67-13-56

Смоленск (4812)29-41-54

Сочи (862)225-72-31

Ставрополь (8652)20-65-13

Сургут (3462)77-98-35

Сыктывкар (8212)25-95-17

Тамбов (4752)50-40-97

Тверь (4822)63-31-35

Тольятти (8482)63-91-07

Томск (3822)98-41-53

Тула (4872)33-79-87

Тюмень (3452)66-21-18

Ульяновск (8422)24-23-59

Улан-Удэ (3012)59-97-51

Уфа (347)229-48-12

Хабаровск (4212)92-98-04

Чебоксары (8352)28-53-07

Челябинск (351)202-03-61

Череповец (8202)49-02-64

Чита (3022)38-34-83

Якутск (4112)23-90-97

Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

■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

RP13A - 12 P A - 13 S C (01)

1 2 3 4 5 6 7 8

① Model name : RP13A Series	⑥ Contact form S : Female contact P : Male contact
② Shell size : The shell size is the outer diameter of the mating end of the plug.	
③ Shell type P : Straight plug R : Receptacle J : Jack	⑦ Contact termination type: A : Straight, PCB dip B : Right-angle, PCB dip C : Contact termination by crimping
④ Shell variation : Connectors are distinguished by A, B, or C if a variation is made within the series.	⑧ Other specifications : A two-digit character is added to indicate other specifications as needed.
⑤ Number of contacts	

●Crimp contact

RP13A - SC - 2 1 1

1 9 10 11 12

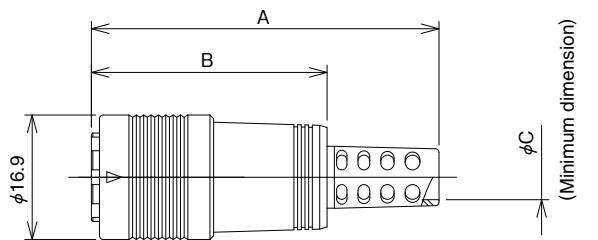
① Model name : Indicates the series name. RP13, RP13A, RP19	⑪ Barrel form : RP13, RP13A 1 : For 18 to 22 AWG 2 : For 24 to 28 AWG RP19 For 24 to 30 AWG
⑨ Contact type : SC : Socket type crimp contact (female) PC : Pin type crimp contact (male)	
⑩ Contact form : 1 : Loose piece contacts 2 : Reel contacts	⑫ Identification of plating : 1 : Gold plating 2 : Silver plating

■Standard type

●Standard plug



RP13A-12PA-13SC(71)



(Representative example.)

Part No.	HRS No.	No. of contacts	A	B	ϕC	Weight	Part No.	HRS No.	No. of contacts	A	B	ϕC	Weight
RP13A-12PA-13SC(71)	113-0182-4 71	13	47.2	32	6.1	6.0g	RP13A-12PD-20SC(71)	113-0214-9 71	20	52.2	37	6.1	6.0g
RP13A-12PB-13SC(31)	113-0184-0 31		52.2	37	5.7		RP13A-12PG-20SC(71)	113-0210-8 71		47.2	32	7.5	
RP13A-12PD-13SC(71)	113-0186-5 71		47.2	32	6.1		RP13A-12PH-20SC(71)	113-0217-7 71		52.2	37	6.4	
RP13A-12PE-13SC(71)	113-0201-7 71		47.2	32	6.4		RP13A-12PK-20SC(71)	113-1012-0 71		52.2	37	7.1	
RP13A-12PK-13SC(71)	113-1006-7 71		52.2	37	7.1		RP13A-12PS-20SC(71)	113-1022-3 71		52.2	37	8.1	
RP13A-12PS-13SC(71)	113-1026-4 71		52.2	37	8.1								

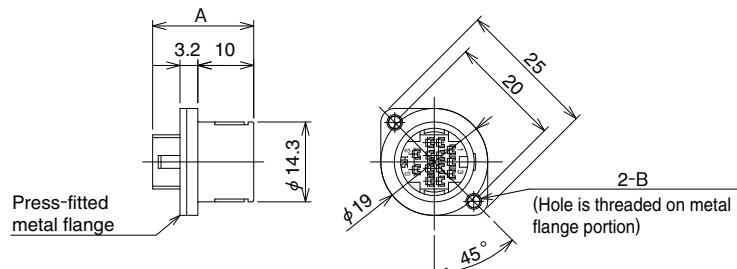
(Note) Cable clamping, cable rotation, and other forces may vary with the cable construction. Please make sure that your cable is suitable for use with these connectors before usage and production.

●Receptacle (Flange type)

(Crimp type)



RP13A-12RA-13PC(71)



(Representative example.)

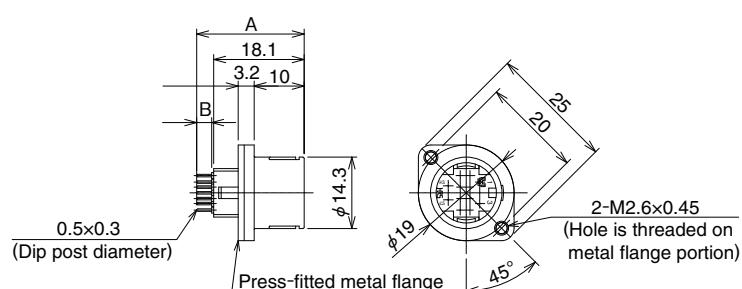
Part No.	HRS No.	No. of contacts	A	B	Weight
RP13A-12RA-13PC(71)	113-0183-7 71	13	18.1	M2.6×0.45	4.0g
RP13A-12RA-20PC(71)	113-0215-1 71	20	16		

(Remarks) See page 5 for details on mounting hole dimensions.

(Dip type)



RP13A-12RA-13PA(71)



(Representative example.)

Part No.	HRS No.	No. of contacts	A	B	Weight
RP13A-12RA-13PA(71)	113-0202-0 71	13	21.5	3	5.0g

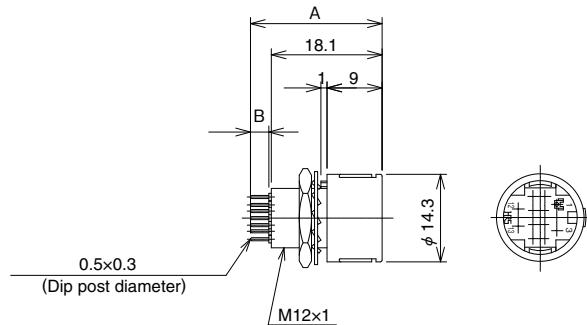
(Remarks) See page 5 for details on mounting dimensions and page 7 for details on dip post arrangement sizes.

●Receptacle (Jam nut to be fastened)

(Dip type)



RP13A-12RB-13PA(71)



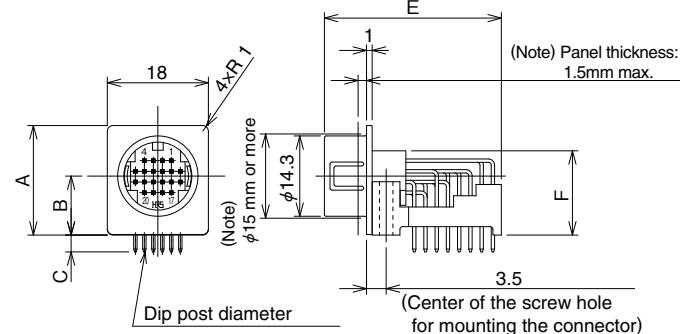
Part No.	HRS No.	A	B	No. of contacts	Weight
RP13A-12RB-13PA(71)	113-0203-2 71	21.5	3	13	3.5g

(Remarks) See page 5 for details on mounting hole dimensions and page 7 for details on dip post arrangement sizes.

●Right-angle, dip type



RP13A-12RC-20PB

(Note) The mounting panel thickness should be 1.5mm or less. Mounting hole should be $\phi 15$ mm or more.

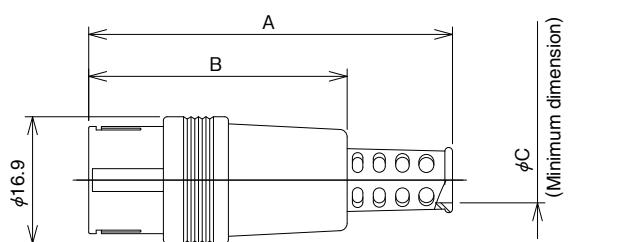
Part No.	HRS No.	No. of contacts	A	B	C	ϕD	E	F	Weight
RP13A-12RC-13PB	113-1020-8	13	17.5	8.5	3.5	0.64	23.5	13	4.0g
RP13A-12RC-20PB	113-0211-0	20	19.5	10.5	3	0.6	31.5	15	5.0g

(Remarks) See page 7 for details on dip post arrangement sizes.

●Jack



RP13A-12J-13PC(71)



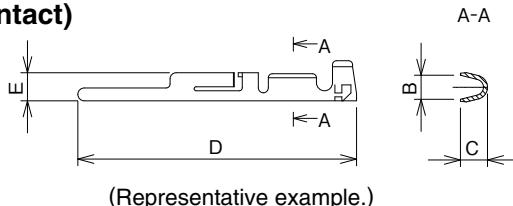
(Representative example.)

Part No.	HRS No.	No. of contacts	A	B	ϕC	Weight
RP13A-12J-13PC(71)	113-0166-8 71	13	49.1	34.6	6.1	4.5g
RP13A-12JG-20PC(71)	113-1004-1 71	20	52.6	37.4	7.4	

(Note) Cable clamping, cable rotation, and other forces may vary with the cable construction. Please make sure that your cable is suitable for use with these connectors before usage and production.

◆Contact

(Male contact)



(Representative example.)

For 13 contact positions

Type	Part No.	HRS No.	Plating	B	C	D	E	Applicable wire size
Loose piece contacts	RP13-PC-122	113-0179-0	Silver plating					
Reel contacts	RP13-PC-221	113-0360-0	Partial gold plating	1.2	1.35	13.9	1.4	24 to 28 AWG
	RP13-PC-222	113-0141-7	Silver plating					

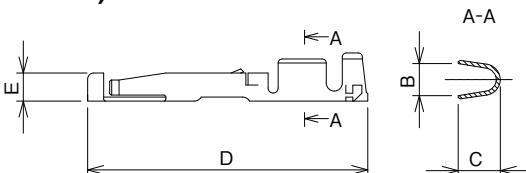
13 contact position for super-thick wires (available for contact position numbers 12 and 13 only)

Type	Part No.	HRS No.	Plating	B	C	D	E	Applicable wire size
Loose piece contacts	RP13-PC-112	113-0178-7	Silver plating	1.6	2.1	13.9	1.4	18 to 22 AWG
Reel contacts	RP13-PC-212	113-0140-4						

For 20 contact positions

Type	Part No.	HRS No.	Plating	B	C	D	E	Applicable wire size
Loose piece contacts	RP19-PC-122	113-0268-8	Silver plating	1.2	1.35	12	1.18	24 to 30 AWG
Reel contacts	RP19-PC-222	113-0264-7						

(Female contact)



(The form shown above represents an example.)

For 13 contact positions

Type	Part No.	HRS No.	Plating	B	C	D	E	Applicable wire size
Loose piece contacts	RP13A-SC-121	113-0363-9	Partial gold plating					
	RP13A-SC-122	113-0181-1	Silver plating					
Reel contacts	RP13A-SC-221	113-0362-6	Partial gold plating	1.2	1.35	13.9	1.4	24 to 28 AWG
	RP13A-SC-222	113-0151-0	Silver plating					

13 contact position for super-thick wires (available for contact position numbers 12 and 13 only)

Type	Part No.	HRS No.	Plating	B	C	D	E	Applicable wire size
Loose piece contacts	RP13A-SC-112	113-0180-9	Silver plating	1.6	2.1	13.9	1.4	18 to 22 AWG
Reel contacts	RP13A-SC-212	113-0150-8						

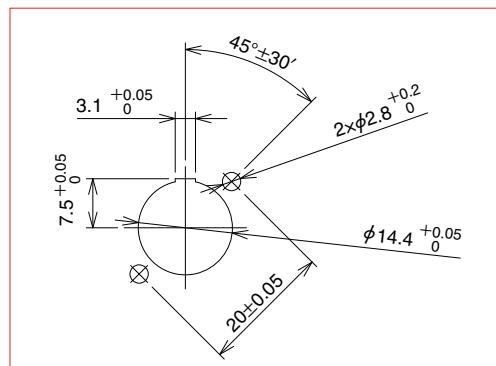
For 20 contact positions

Type	Part No.	HRS No.	Plating	B	C	D	E	Applicable wire size
Loose piece contacts	RP19-SC-122	113-0270-0	Silver plating	1.2	1.35	11	1.18	24 to 30 AWG
Reel contacts	RP19-SC-222	113-0266-2						

(Note 1) Use connectors with gold-plated contacts if the connectors will be subjected to constant vibration.

(Note 2) Loose piece contacts are available in 100 piece packs. Reel contacts are available as 10,000 piece reels.

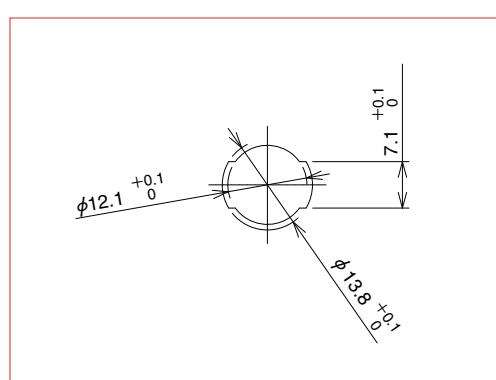
◆Panel mounting hole dimensions



(Flange type)

●Applicable connector

Part No.	HRS No.
RP13A-12RA-13PC(71)	113-0183-7 71
RP13A-12RA-13PA(71)	113-0202-0 71
RP13A-12RA-20PC(71)	113-0215-1 71



(Jam nut to be tightened)

●Applicable connector

Part No.	HRS No.
RP13A-12RB-13PA(71)	113-0203-2 71

(Note 1) Above figures show the arrangement viewed from the panel surface. The mating guide of flange type is located on the top position.

(Note 2) The applicable panel thickness for the flange type receptacle is 2.7mm max., since this type is mounted from the back surface of the panel.

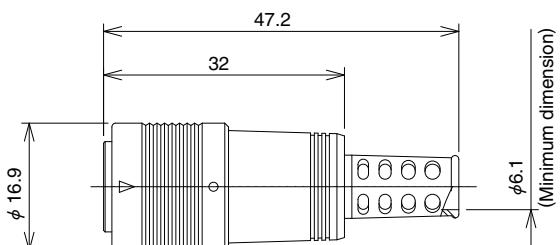
(Note 3) The applicable panel thickness for a hex nut fastening type is 5mm max. and 1mm min.

■RP13A anti-static type

●Plug



RP13A-12PA-13PC(71)



(Representative example.)

Part No.	HRS No.	No. of contacts	Weight
RP13A-12PA-13PC(71)	113-4003-5 71	13	6.0g

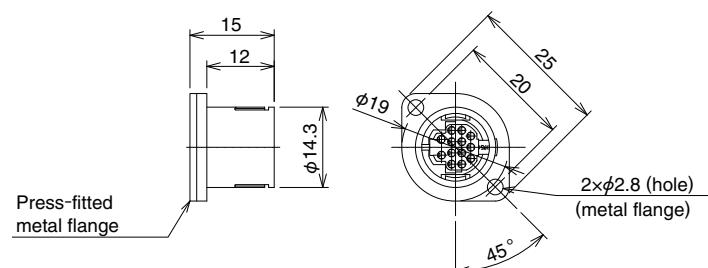
(Note) Cable clamping, cable rotation, and other forces may vary with the cable construction. Please make sure that your cable is suitable for use with these connectors before usage and production.

●Receptacle (flange type)

(Crimp type)



RP13A-12R-13SC(71)



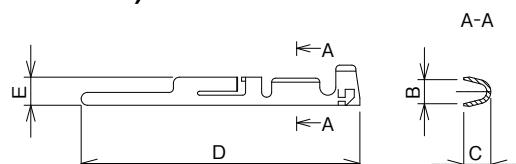
(Representative example.)

Part No.	HRS No.	No. of contacts	Weight
RP13A-12R-13SC(71)	113-4002-2 71	13	4.0g

(Remarks) See page 7 for details on mounting hole dimensions.

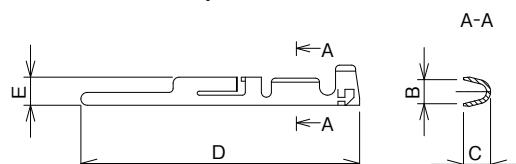
◆Contact

(Male contact)



Type	Part No.	HRS No.	B	C	D	E	Applicable wire size
Loose piece contacts	RP19-PC-122	113-0268-8	1.2	1.35	12	1.18	24 to 30 AWG
Reel contacts	RP19-PC-222	113-0264-7					

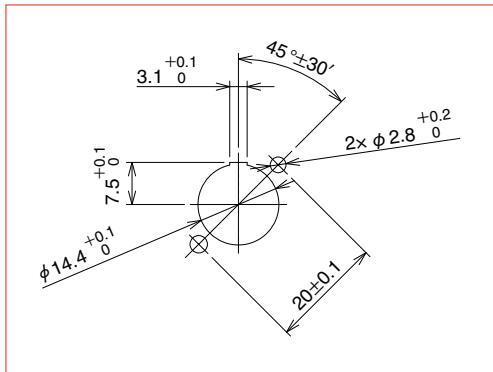
(Female contact)



Type	Part No.	HRS No.	B	C	D	E	Applicable wire size
Loose piece contacts	RP19-SC-122	113-0270-0	1.2	1.35	11	1.18	24 to 30 AWG
Reel contacts	RP19-SC-222	113-0266-2	1.2	1.35			24 to 30 AWG

(Note) Loose piece contacts are available in 100 piece packs. Reel contacts are available as 10,000 piece reels.

◆Panel mounting hole dimensions (for anti-static type)



(Flange type)

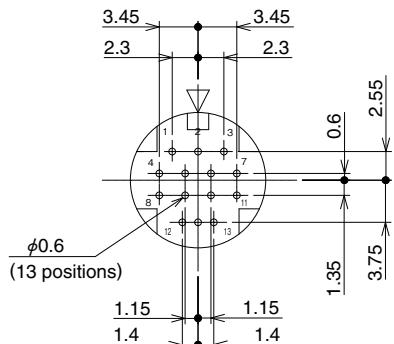
(Note 1) Above figures show the arrangement viewed from the panel surface. The mating guide of flange type is located on top the position.

(Note 2) The applicable panel thickness for a flange type receptacle is maximum 4.7mm, as this type is mounted from the back surface of the panel.

◆Dip post arrangement sizes for receptacles

●Straight dip type

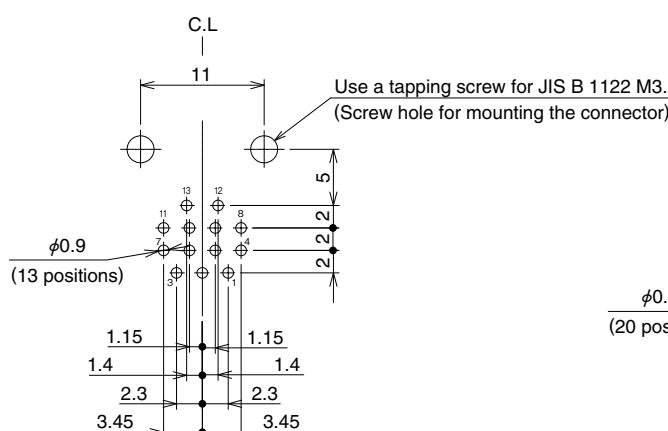
13 contacts



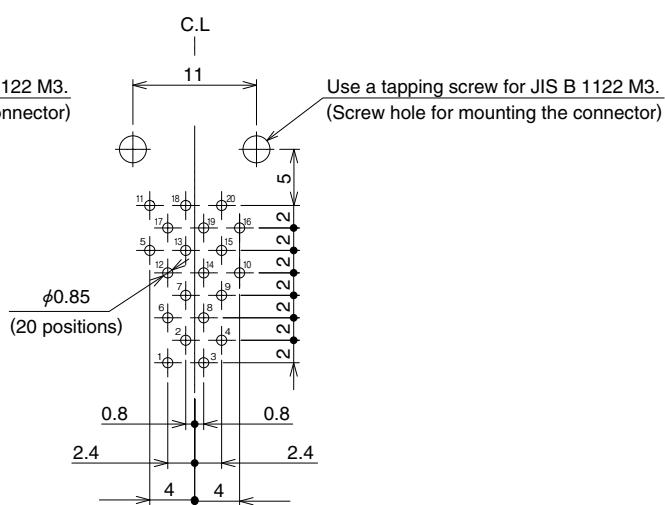
(Remarks) 1. The figure shown above for 13 contact positions is viewed from the receptacle mating end.
2. A machining tolerance of ± 0.05 is recommended for the PCB layout dimensions.

●Right-angle, dip type

13 contacts



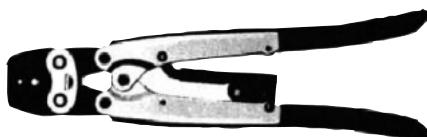
20 contacts



(Remarks) 1. The figures shown above are viewed from the contact insertion end.
2. A machining tolerance of ± 0.05 mm is recommended for the PCB layout dimensions.

◆Applicable tools

Type	Items	Part No.	HRS No.	Applicable contact	Applicable wire size and applicable cable diameter	
Manual	Manual crimping tool	RP13-TC-11	150-0024-3	RP13-PC-112	18 to 22 AWG	
		RP13-TC-12	150-0025-6	RP13-PC-121, 122	24 to 28 AWG	
		RP13A-TC-11	150-0026-9	RP13A-SC-112	18 to 22 AWG	
		RP13A-TC-12	150-0027-1	RP13A-SC-121, 122	24 to 28 AWG	
		RP19-TC-12	150-0049-4	RP19-PC-122 RP19-SC-122	24 to 28 AWG	
Auto	Automatic crimping press	CM-105C	901-0001-0	_____	_____	
	Applicator	AP105-RP13-2	901-2024-0	RP13-PC-221, 222 RP13A-SC-221, 222	24 to 28 AWG	
		AP105-RP19-2	901-2014-6	RP19-PC-222 RP19-SC-222	24 to 28 AWG	
Cable crimping tool		RP13A-TC-01	150-0070-0	_____	φ4.6~φ5.8 φ7~φ7.5	
		RP13A-TC-02	150-0071-3	_____	φ6.3, φ7.8	
Extraction tool		RP13-PC-TP	150-0021-5	Male contact	_____	
		RP13A-SC-TP	150-0022-8	Female contact	_____	
		RP6-SC-TP	150-0039-0	Male/female contact for RP19	_____	



RP13A-TC-02
Cable crimping tool
(handle shape is shown as an example.)



RP13-TC-11
Manual crimping tool



RP6-SC-TP



RP13-PC-TP



RP13A-SC-TP

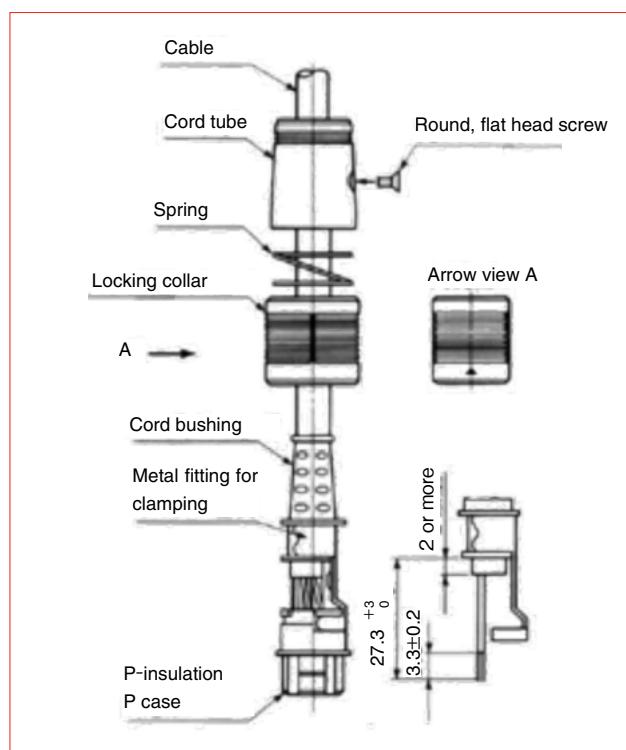
Extraction tools



Automatic crimping press
(Type CM-105C)

◆Termination/assembly procedure

●Plug



○Assembly procedure

1. First, pass the terminated cable through the cord tube in the following order: spring, connection sleeve, and cord bushing, and then crimp and terminate the contacts.
2. 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 lightly pulling 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.
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.
5. After the assembly procedure described above has been completed, test the parts to make sure that the locking collar moves correctly.

◆Contact Arrangement

(Standard type)

Contact arrangement		
No. of contacts	13	20

(Anti-static type)

Contact arrangement	
No. of contacts	13

(Remarks) 1. The figures shown above are viewed from the receptacle and jack mating end (plug connection end).

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.

■Product Specifications

Ratings	Rated current	Contact numbers 1, 3 to 10 : 2 A (when using a wire of at least 26 AWG) Contact numbers 2, 11, 12 : 5 A (when using a wire of at least 22 AWG)	Operating temperature range	-10 to +60°C
	Rated voltage	AC100V, DC140V	Storage temperature range	-10 to +60°C

Items	Specifications	Conditions
1. Contact resistance	15mΩ max. DIP Type : 20mΩ max.	Measured at DC 1A
2. Insulation resistance	1,000MΩ min.	Measured at DC 500V
3. Withstanding voltage	No flashover or dielectric breakdown.	AC 1000V for 1 minute
4. Vibration resistance	No electrical discontinuity for 10μs or greater.	10 to 55Hz/cycle, amplitude : 0.75mm, 3 axis directions, 2 hours each direction
5. Shock resistance	No electrical discontinuity for 10μs or greater.	Acceleration : 490m/s ² , duration : 11ms, 3 axis directions, 3 times each direction
6. Mating cycles	Contact resistance : 20mΩ max. Dip type : 25mΩ max.	1,000 times
7. Temperature cycle	Insulation resistance : 1,000MΩ min.	-55°C : 30 minutes → Normal temperature : 10 to 15 minutes → 85°C : 30 minutes → Normal Temperature : 10 to 15 minutes, left for 5 cycles
8. Moisture resistance	Insulation resistance : 10MΩ min. (at high humidities) 100MΩ min. (when dry)	Temperature : 40°C , relative humidity : 90 to 95%, left for 96 hours

■Materials / Finish

Items	Material	Finish	Remarks
Plug	Shell, insulator	Polycarbonate resin	UL94V-0
	Clamp	Brass	—
	Bushing	Vinyl chloride resin	—
Receptacle	Shell, insulator	Poly carbonate resin	UL94V-0
		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

RP17 A - 13 P A - 12 S C (01)

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Model name : RP17 Series	⑥ Number of contacts
② Type identification No marking : Standard type A : Anti-static electricity type	⑦ Contact form S : Female contact P : Male contact
③ Shell size : The shell size is measured at the outer diameter of the mating interface of the plug.	⑧ Contact termination method: C : Contact termination by crimping D : Straight PCB dipping method
④ Shell type P : Straight plug R : Receptacle J : Jack	⑨ Other specifications : A two-digit character is added to indicate other specifications when needed.
⑤ Shell variation : Connectors are distinguished by A, B, or C if another variation is applied in the same form.	

● Crimp contact

RP17 - SC - 2 1 2

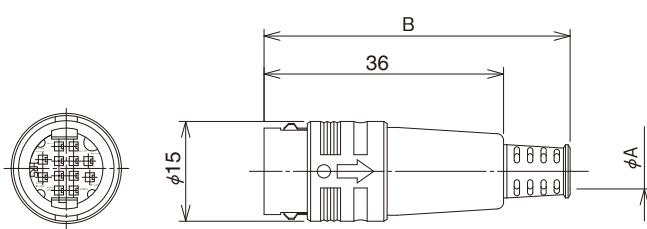
① ⑨ ⑩ ⑪ ⑫

① Model name : RP17	⑪ Applicable wire gauge 1 : For 18 to 22 AWG 2 : For 24 to 30 AWG
⑨ Contact type : SC : Crimped female contact PC : Crimped male contact	⑫ Type of plating 2 : Silver plating
⑩ Contact form 1 : Loose piece contacts 2 : Reel contacts	

■ Plug (standard type)



RP17-13P-12PC(71)



(Representative example.)

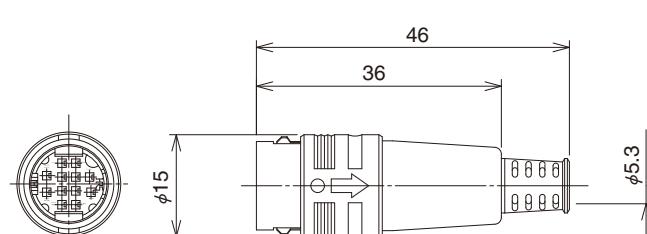
Part No.	HRS No.	φA	B
RP17-13P-12PC(71)	113-0501-0 71	5.3	46
RP17-13PA-12PC(71)	113-0512-7 71	6.1	51

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)



RP17A-13P-12PC(71)



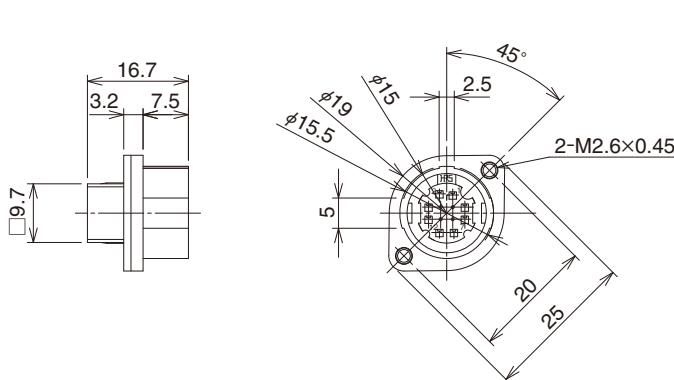
Note : Cable clamping force, cable rotation force, and others aspects may differ depending on the cable construction. We recommend that you verify the suitability of the cable assembly before use or production.

■ Receptacle (standard type)

(Crimping type)



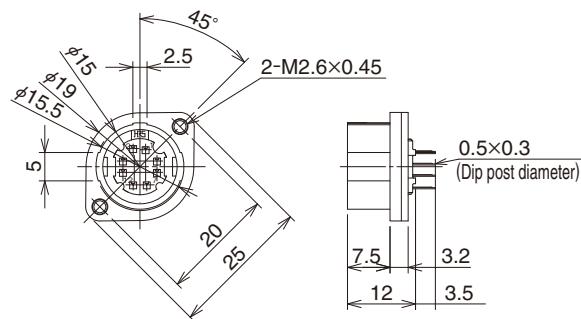
RP17-13R-12SC(71)



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

■Receptacle (standard type)

(PCB dip type)

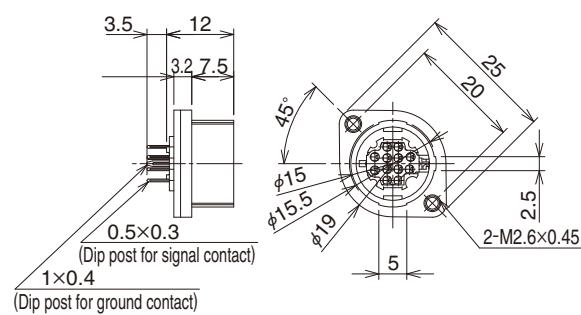


Part No.	HRS No.
RP17-13RA-12SD(71)	113-0511-4 71

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

■Receptacle (anti-static electricity type)

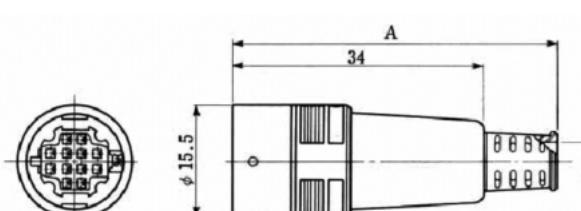
(PCB dip type)



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)



(Representative example.)

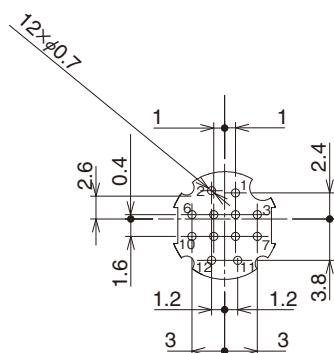
Part No.	HRS No.	A	øB
RP17-13J-12SC(71)	113-0515-5 71	44	5.3
RP17-13JA-12SC(71)	113-0516-8 71	49	6.1

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.

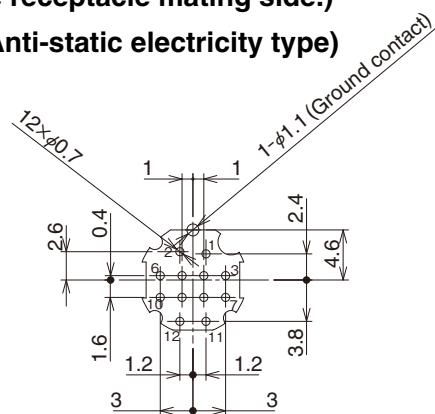
◆ Dip post assignment and layout for receptacles

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

● (Standard type)



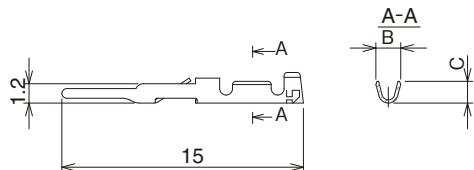
● (Anti-static electricity type)



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

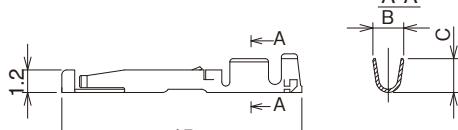
■ Contact

Male contact



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

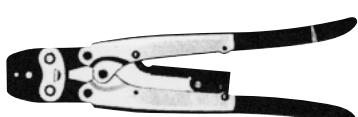
Female contact



Type	Part No.	HRS No.	B	C	Applicable wire size
Loose piece contacts	RP17-SC-112	113-0505-1	1.6	2.1	18 to 22 AWG
	RP17-SC-122	113-0506-4	1.2	1.35	24 to 30 AWG
Reel contacts	RP17-SC-212	113-0509-2	1.6	2.1	18 to 22 AWG
	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- _{SC} -112	18 to 22 AWG
		RP17-TC-12	150-0044-0	RP17- _{SC} -122	24 to 30 AWG
Auto	Automatic crimping press	CM-105C	901-0001-0	_____	_____
	Applicator	AP105-RP17-1	901-2036-9	RP17- _{SC} -212	18 to 22 AWG
		AP105-RP17-2	901-2026-5	RP17- _{SC} -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.)



Extraction tool



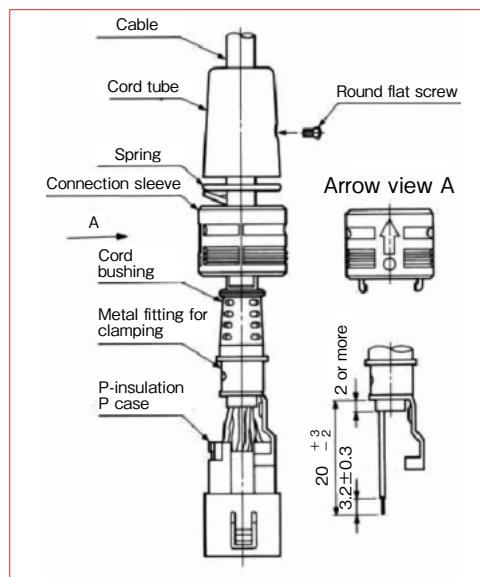
Manual crimping tools



Automatic crimping press
(Type CM-105C)

◆ Termination procedure

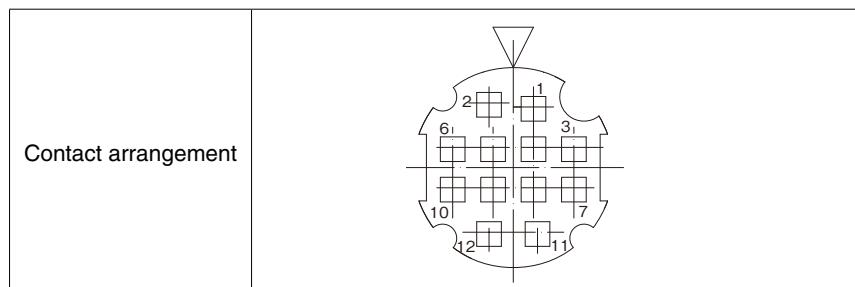
● Plug



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.
2. 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.
5. 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.

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Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://hirose.nt-rt.ru/> || hes@nt-rt.ru