TYPE RP13A PUSH-PULL LOCK CONNECTOR

Scope

RP13A Connector is compact, lighweight, rigid, highly reliable circular connector developed in response to the increasing needs for more compact VTR equipment OA equipment.

The push-pull locking system used for RP13A connector,

was designed with thorough consideration for easy handling and offers easy and quick installation/removal operation. The compact yet smart design is suitable for any type of electronic equipment, particularily small-sized electronic equipment.

Features

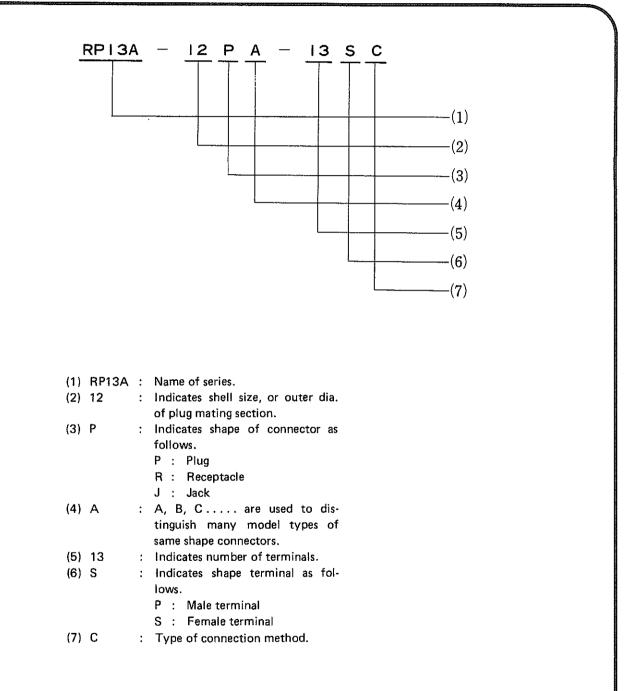
- (1) Compact shape will always fit your equipment.
- (2) Single motion push-pull locking mechanism provides improved quick inserting/extracting capability. High density packaging is also available.
- (3) Multi-slot key mating guide prevents mis-insertion.
- (4) Outer shell, made of strong glass fiber polycabonate resin, is lighweight yet rigid.
- (5) As the cable connection method, crimping is used for plug, and crimping and PCB dip for receptacle.

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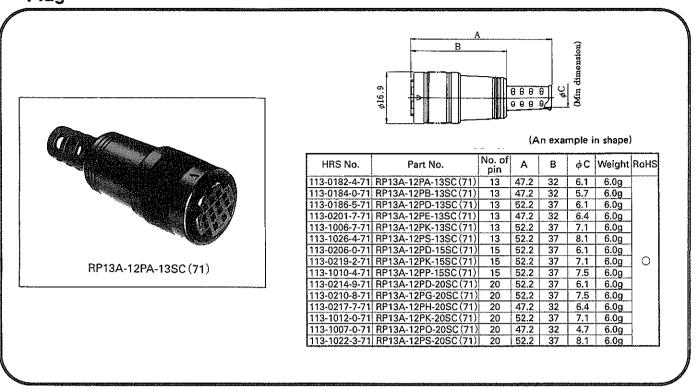
Material and Finish

Part Name	Material	Finish
Aolding and connector body	UL94V–0 Glass-filled polycarbonate	(Black)
'in contact	Phosphor bronze	Silver plating
ocket contact	Phosphor bronze	Silver plating

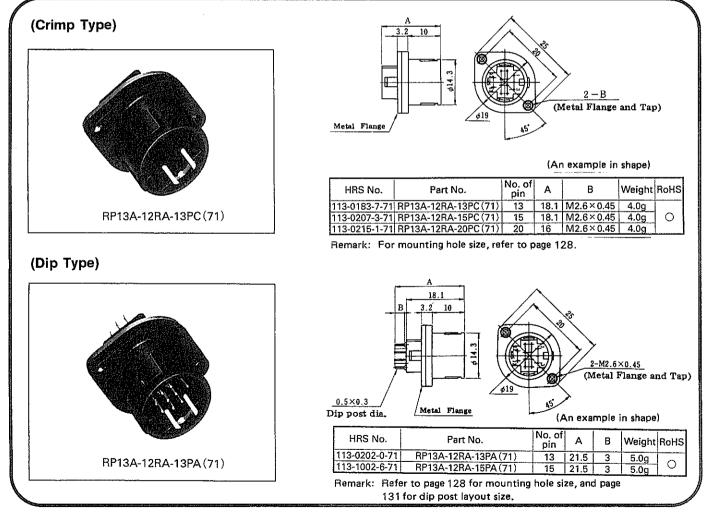
Ordering Information



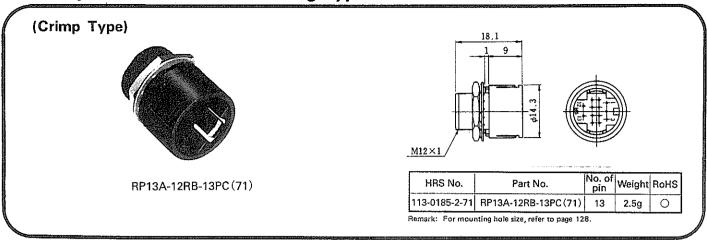


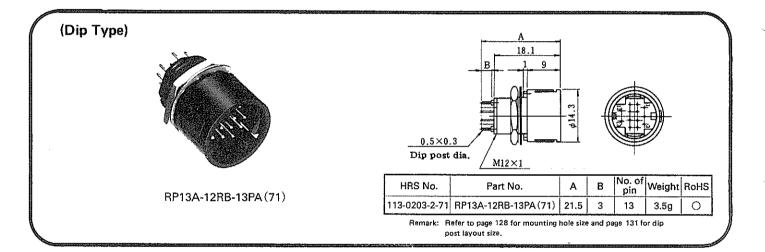


Receptacle (Flange Type)

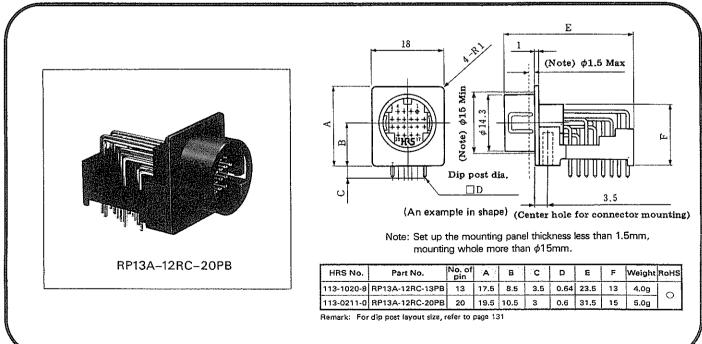


Receptacle(Jam nut fastening type)

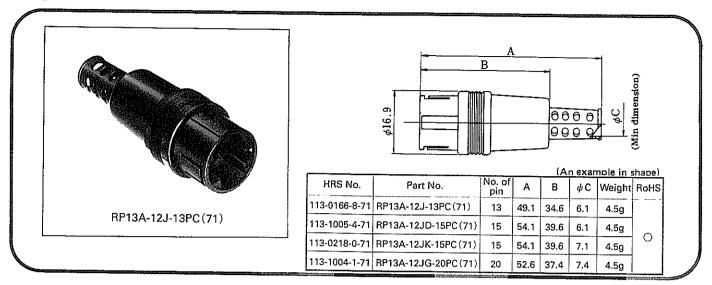




Right Angle Dip

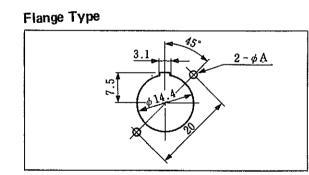






	Male I	Pin	D	᠂᠂		• A	m Se	C C A-A		Fe ي	emale Pi	n 	<u>^_</u>	 		m -		A-A	
		(An exam	ple ir	n sha	ipe)						(An	example i	n sh	ape)				
or 13	and 15 cont	acts																	
Гуре	HRS No.	Part No.	Plating	В	C	D	Ε	Applicable wire Rol	IS	Туре	HRS No.	Part No.	Plating	В	C	D	E	Applicable with	re BoHS
oose	113-0179-0	RP13-PC-122	Silver	1.2	1.35	13.9	1.4	AWG # 24~ # 28		Loose	113-0363-9	RP13A-SC-121			•			AWG#24~#:	
hain	113-0360-0	RP13-PC-221	Part gold	1.2	1.35	13.9	1.4	AWG#24~#28 🔿)	Loose piece		RP13A-SC-122		1.2		·····		AWG#24~#2	
ontact	113-0141-7	RP13-PC-222	Silver	1.2	1.35	13.9	1.4	AWG # 24~ # 28		Chain	113-0362-6	RP13A-SC-221	Part gold		1			AWG#24~#2	$\neg \cap$
										contact		RP13A-SC-222				13.9	1.4	AWG#24~#2	28
3 for s	uperthick w	ires(can be u	sed for ter	mina	l nos.	12 a	nd 13	3 only)							.l			<u> </u>	
уре	HRS No.	Part No.	Plating	В	С	D	E	Applicable wire Rol	IS	Туре	HRS No.	Part No.	Plating	В	С	D	Ε	Applicable with	re RoH
oose	113-0178-7	RP13-PC-112	Silver	1.6	2.1	13.9	1.4	AWG # 18~ # 22		Loose piece	113-0180-9	RP13A-SC-112	Silver	1.6	2.1	13.9	1.4	AWG#18~#2	22
hain ntact	113-0140-4	RP13-PC-212	Silver	1.6	2.1	13.9	1.4	AWG # 18~ # 22	<u> </u>	Chain contact	113-0150-8	RP13A-SC-212	Silver	1.6	2.1	13.9	1.4	AWG # 18~ # 2	22 0
or 20	contacts																		
Type	HRS No.	Part No.	Plating	в	С	D	Е	Applicable wire Rol	10	Туре	HRS No.	Part No.	Disting	0			-		<u> </u>
oose biece		RP19-PC-122	Silver		1.35			AWG#24~#30		Loose piece		Part No. RP19-SC-122	Plating Silver	B	C	D		Applicable wit	
		RP19-PC-222	Silver		1.35			AWG#24~#30				RP19-SC-122	Silver		1.35 1.35			AWG #24~#: AWG #24~#:	$\neg \cap$
		otes Use conne	ectors wi	th go	bl d -p	J		rminals if the	i con:							L		P.470 7 24 - # 2	~

Mounting Cutout



Applicable Connector

HRS No.	Part No.	Mounting hole dimension ϕA	RoHS
113-0183-7-71	RP13A-12RA-13PC(71)	3	
113-0202-0-71	RP13A-12RA-13PA(71)	3	1
113-0207-3-71	RP13A-12RA-15PC(71)	3	0
113-1002-6-71	RP13A-12RA-15PA(71)	3	
113-0215-1-71	RP13A-12RA-20PC(71)	3]

Note

- 1. Above appearance shows the panel surface and the mating key is located on top position.
- 2. The applicable panel thickness for a flange type receptacle is

Jam Nut Type

Applicable Connector

HRS No.	Part No.	RoHS
113-0185-2-71	RP13A-12RB-13PC (71)	~
113-0203-2-71	RP13A-12RB-13PA (71)	0

maximum 2.7 mm because this type is mounted on the back surface of panel.

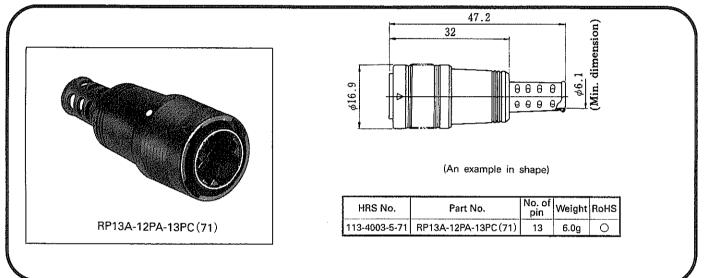
3. The applicable panel thickness for a hexagon nut fastening type is maximum 5 mm and minimum 1 mm.

RP13A ELECTROSTATIC PROTECTION TYPE

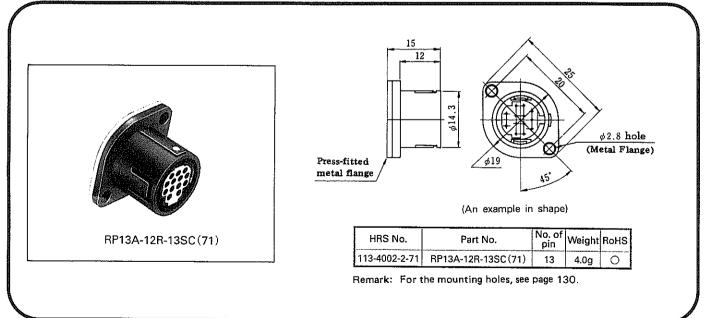
RP13A Electrostatic Protection Type Connector uses male contacts for plug and female connects for receptacle. Please note that there is NO INTERCHANGEABILITY with standard type RP13A connectors previously introduced. (Crimping terminals also differ from those of the standard connector.)

While using the electrostatic protection type and the standard type in parallel, any error shall be occurred due to different terminal connectors, so assorted usage with standard type are widely extended.

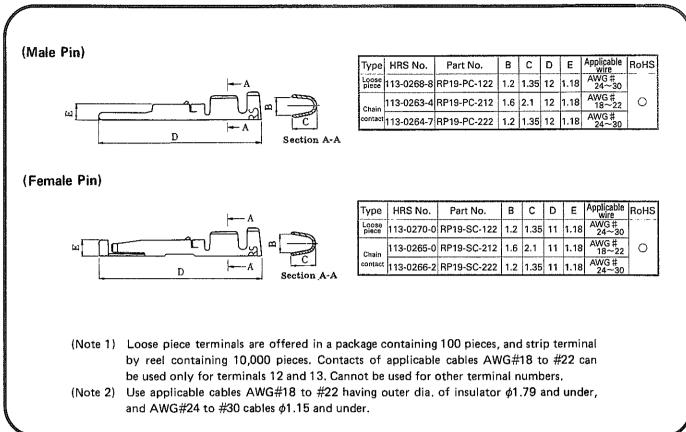
Plug



Receptacle Flange Type (Crimp Type)

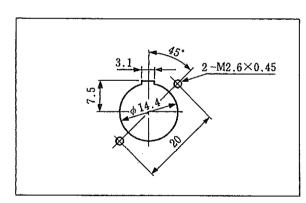


Contact



Receptacle Mounting Hole Dimensions

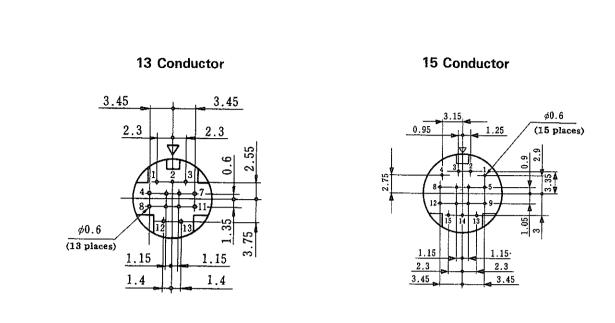
(Electrostatic Protection Type)



(Flange Type)

- (Note 1) Above figure shows arrangement viewed from panel face. Mating guide of flanged type is positioned above.
- (Note 2) For receptacle of flanged type, connector is inserted from back side of panel. Up to 4.7mm thick panel can be used.

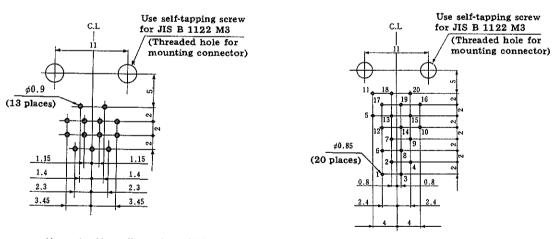
Receptacle Dip Post Layout



Note: 1. Figures of 13 and 15-conductor connectors are viewing from the mating side of receptacle. 2. Applicable allowance of panel layout: ±0.05 mm.

13 Conductor (Right-angle Type)

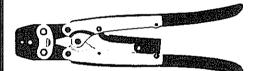
20 Conductor (Right-angle Type)



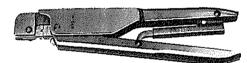
Note: 1. Above figure shows PCB face viewing from the mating face of receptacle.
2. Applicable allowance of panel layout: ±0.05 mm.

Tools

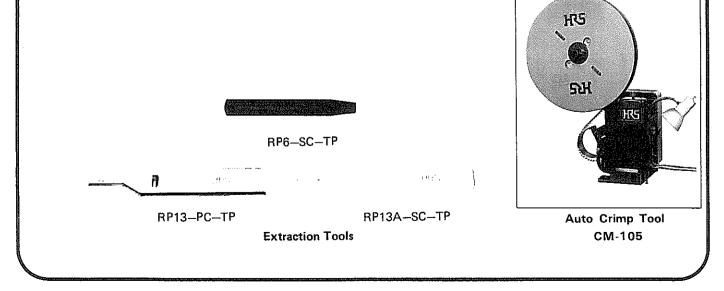
Туре	ltem	HRS No.	Part No.	Applicable terminal	Applicable wire	
		150-0024-3	RP13-TC-11	RP13-PC-112	AWG#18~#22	
		150-0025-6	RP13-TC-12	RP13-PC-121 RP13-PC-122	AWG#24~#28	
		150-0026-9	RP13A-TC-11	RP13A-SC-112	AWG#18~#22	
Manual	Manual crimping tool	150-0027-1	RP13A-TC-12	RP13A-SC-121 122	AWG # 24~ # 28	
ching too	Chimping (OO)	150-0048-1	RP19-PC-122 RP19-SC-122		AWG#24~#28	
		150-0049-4	150-0049-4 RP-19-TC-12 RP19-PC-122 RP19-SC-122		AWG#24~#28	
Automatic	Automatic crimping body	901-0005-4	CM-105	_	_	
	Applicator	901-2024-0	AP105-RP13-2	RP13-PC-221, 222 RP13A-SC-221, 222	AWG#24~#28	
		901-2013-3	AP105-RP19-1	RP19-PC-212 RP19A-SC-212	AWG#18~#22	
		901-2014-6	AP105-RP19-2	RP19-PC-222 RP19-SC-222	AWG#24~#28	
Cable crimping tool		150-0070-0	RP13A-TC-01	_	φ7.3, φ8.3	
		150-0071-3	RP13A-TC-02	-	φ7.5, φ8.6	
		150-0021-5	RP13-PC-TP	Male terminal	_	
Ex	tractor	150-0022-8	RP13A-SC-TP	Female terminal		
		150-0039-0	RP6-SC-TP	Male/temale terminal for RP19	_	



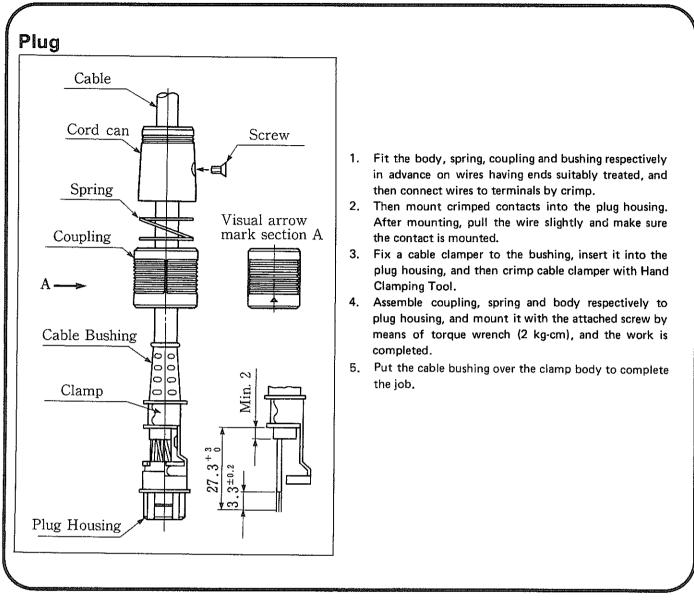
RP13A-TC-02 Cable Crimping Tool



RP13-TC-11 Hand Crimping Tool



Assembling Procedure



Terminal Arrangement and Performance

Pinout			
No of pin	13	15	20
Withstanding voltage	AC 300 a minute	AC 300 a minute	AC 300 a minute
Current rating	2A (AWG #24)	2A (AWG #24)	2A (AWG #24)
Insulation	1000 MΩ max (DC 250V)	1000 MΩ min (DC 250V)	1000 MΩ min (DC 250V)
Contact	15 mΩ min (DC 1A)	15 mΩ max (DC 1A)	30 mΩ max (DC 1A)
Applicable wire	AWG #18 ~ #22 (insulation ϕ 1.9) Conformity terminal No.12, 1 AWG #24 ~ #28 (insulation ϕ 1.4) Conformity terminal No.1~17	(insulation ϕ 1.4)	AWG #24 ~ #20 (insulation ¢ 1.15)

(Electrostatic Protection Type)

Pinout	
Positions	13
Withstanding voltage	AC 300 a minute
Current	2A (AWG #22)
Insulation	1000 MΩ min (DC 250V)
Contact	15 mΩ max (DC 1A)
Wire	AWG #18 ~ #22 (insulation ϕ 1.79) Conformity terminal No. 12, 13 AWG #24 ~ #30 (insulation ϕ 1.15) Conformity terminal No. 1 ~ 11

(Remarks) 1. Above figure shows arrangement viewed from the mating face (cable connection side) of receptacle and jack.

2. Withstanding voltage is shown by testing voltage.

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