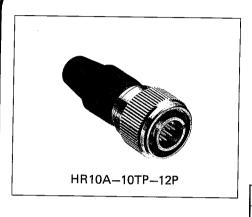
HR10A-[]T TYPE (Threaded Coupling Type)

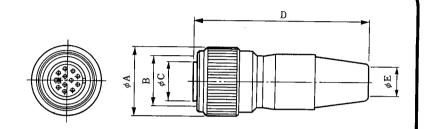
Scope

HR10A-()T connector is a new product having a threaded coupling locking mechanism. Electric perfor-

mance is same as HR10 and HR10A push-pull locking type connector.

Plug (Solder Type)



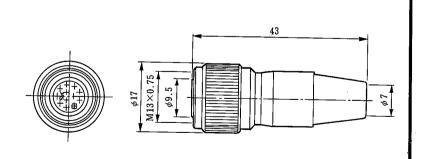


(An example in shape)

HRS No.	Part No.	No. of pins	φΑ	В	φC	D	φΕ	Remarks
110-0331-3	HR10A-7TP-6P	6	12	M10×0.75	7	35	5	
110-0331-3-01	HR10A-7TP-6P(01)	6	12	M10x0.75	7	35	5	Gold plated
110-0432-0	HR10A-10TP-12P	12	17	M13×0.75	9.5	43	7	
110-0446-5	HR10A-10TPA-12S	12	17	M13x0.75	9,5	43	7	
110-1101-9	HR10A-10WTP-12P	12	15	M12×0.75	9.5	45.8	6.5	
110-1106-2	HR10A-10WTP-12S	12	15	M12×0.75	9.5	45.8	6.5	
110-1015-9	HR10A-13TPD-20P	20	20	M17x1	13	56.5	7	

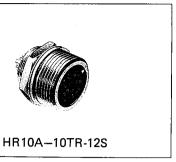
Plug (Crimp Type)

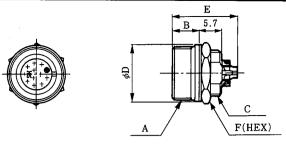




HRS No.	Part No.	No. of pins
110-0455-6	HR10A-10TP-12PC	12

Receptacle (Solder Type)



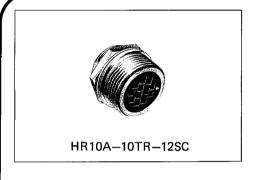


(An example in shape)

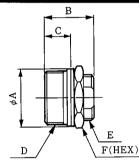
HRS No.	Part No.	No. of pins	А	В	С	φD	E	F	Remarks
110-0089-0	HR10-7TR-6S	6	M10x0.75	6.3	M8×0.5	11	14	10	Gold plated
110-0453-0	HR10A-10TR-12S	12	M13x0.75	6.3	M11x0.75	14	16	13	
110-1104-7	HR10A-10WTR-12S	12	M12×0.75	6.8	M10.5x0.75	14	16	13	

Remark: For the mounting holes, see page 79 However, 7TR size shall be referred to page 85 on the shell size 7.

Receptacle (Crimp Type)





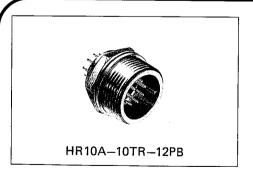


(An example in shape)

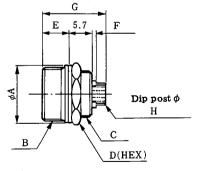
		(,, ,,,,		F	0	-,		
HRS No.	Part No.	No. of pins	φА .	В	С	D	Ε	F
110-0456-9	HR10A-10TR-12SC	12	14	12	6.3	M13x0.75	M11x0.75	13
110-1002-7	HR10A-13TR-20SC	20	18	15	9.3	M17x1	M14×0.75	17

Remark: For the mounting holes, see page 79.

Receptacle (Dip Type)







(An example in shape)

HRS No.	Part No.	No. of pins	φΑ	В	С	D	Ε	F	G	Н	Remarks
110-0330-0	HR10A-7TR-6SA	6	11	M10x0.75	M8x0.5	10	6.3	0.5	15.5	0.55φ	
110-0433-3	HR10A-10TR-12SB	12	14	M13x0.75	M11x0.75	13	6.3	0.5	15.5	0.2×0.5	
11004571	HR10A-10TR-12PB	12	14	M13x0.75	M11x0.75	13	6.3	0.5	15.5	0.2x0.5	
110-0445-2	HR10A-10TR-12PE	12	14	M13x0.75	M11×0.75	13	6.3	0.5	14	0.2×0.5	
110-1102-1	HR10A-10WTR-12SB	12	14	M12×0.75	M10.5×0.75	13	6.8	0	15.5	0.2×0,5	
110-1013-3	HR10A-13TR-20PB	20	18	M17×1	M14x0.75	17	9.3	0	17.8	0.2×0.5	
110-1014-6	HR10A-13TR-20\$B	20	18	M17x1	M14x0.75	17	9.3	0	17.8	0.2×0.5	

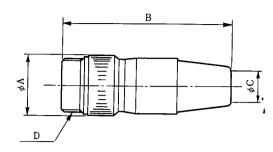
Remarks: 1. For the mounting holes, see page 79. However, 7TR size shall be referred to page 85 on the shell size 7.

2. For dip post arrangement, see page 80.

Jack (Solder Type)





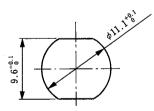


(An example in shape)

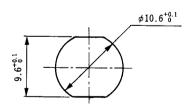
HRS No.	part No.	No. of pins	φΑ	В	φС	D	Remarks
110-0436-1	HR10A-10TJ-12S	12	14.7	41.3	7	M13x0.75	
110-0459-7	HR10A-10TJ-12P	12	14.7	41.3	7	M13x0.75	
110-1103-4	HR10A-10WTJ-12S	12	14	46.5	6.5	M12×0.75	

Panel mounting hole dimensions(screw coupling)

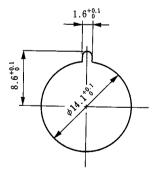
The mounting hole dimensions shown below are for connectors to be tightened by a hexagonal nut from the back of the panel. The dimensions below apply only to the HR10A—[] T and not the 7TR. For the dimensions of connectors of other types, see page 85.



Type HR10A-10TR (Panel thickness 1 to 2mm)



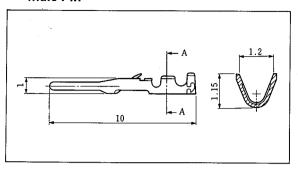
Type HR10A-10WTR (Panel 1 thickness 1 to 2mm)



Type HR10A-13TR (Panel thickness 1 to 1.5mm)

Contact

Male Pin

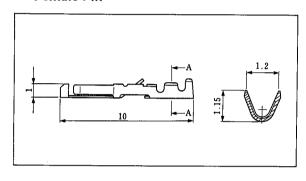


·Type	HRS No.	Part No.	Type of plating	Applicable wire
Loose	110-0515-6	HR10-PC-111	Partial gold plating	AWG#26~#30
contact	110-0513-0	HR10-PC-112	Silver plating	AWG#26~#30
Chain	110-0516-9	HR10-PC-211	Partial gold plating	AWG#26~#30
contact	110-0514-3	HR10-PC-212	Silver plating	AWG#26~#30

Remarks:

- 1. Use cables with a coating outside diameter of 1mm or less.
- Loose-piece terminal are available in packs. Each pack contains 100 terminals. Strip terminals are available in reels. Each reel contains 10,000 terminals.

Female Pin

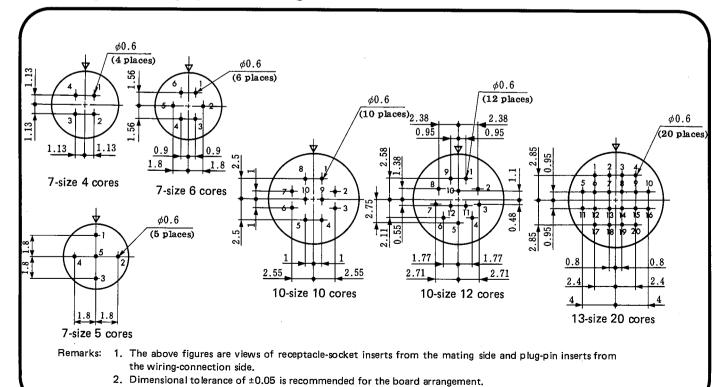


Туре	HRS No.	Part No.	Type of plating	Applicable wire
Loose	112-0410-0	HR12-SC-111	Partial gold plating	AWG#26~#30
contact	112-0411-3	HR12-SC-112	Silver plating	AWG#26~#30
Chain	112-0407-6	HR12-SC-211	Partial gold plating	AWG#26~#30
contact	112-0408-9	HR12-SC-212	Silver plating	AWG#26~#30

Remarks

- 1. Use cables with a coating outside diameter of 1mm or less.
- Loose-piece terminal are available in packs. Each pack contains 100 terminals. Strip terminals are available in reels. Each reel contains 10,000 terminals.

Receptacle dip post arrangement dimensions



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Tools

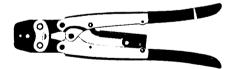
Туре	Item	HRS No.	Part No.	Applicable terminal	Applicable wire and Applicable Cable diameter
Manual	ual Manual crimping tool 150-0052-9		HR12-SC-TC	HR10-PC-112	AVVO # 00 # 00
	Manual crimping tool	150-0052-9	HR12-50-10	HR12-SC-112	AWG#26~#30
	Automatic crimping machine body	901-0005-4	CM-105	_	_
Automatic	Applicator	901-2015-9	AP105-HR12-1	HR10-PC-211 212 213	AWG # 26~ # 30
	Аррисаци			HR12-SC-211 212 213	
		150-0036-2	HR10-TC-01		(HR10B-2.5CP, HR10B-2.5CJ)
Cable	e crimping tool	150-0041-2	HR10A-TC-02		ф7, ф5
		150-0055-7	HR10D-TC-02		ф 9.5
		150 0050 0	UD40 00 TD	HR12-SC-112	
Extractor		150-0050-3	HR12-SC-TP	HR12-SC-212	
		450 0000 0		HR10-PC-112	
		150-0039-0	RP6-SC-TP	HR10-PC-212	
		450 0004 0		HR10B-2.5CP	
		150-0061-0	HR10B-TP	HR10B-2.5CJ	



(HR12-SC-TC)
Hand Crimp Tool



(HR12-SC-TP)



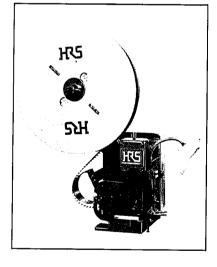
(HR10A-TC-02)

Hand Cable Crimp Tool



(RP6-SC-TP)

Extraction Tool



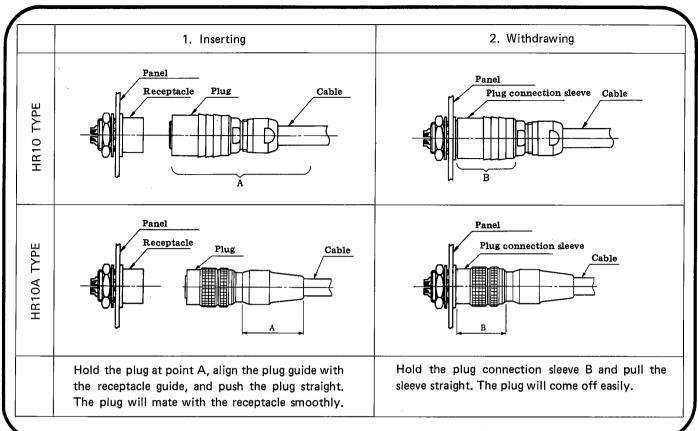
Auto Crimp Tool CM-105



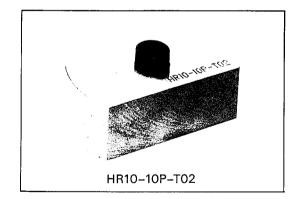
(HR10B-TP)

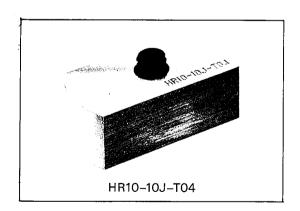
Coaxial Contact Removal Tool

How to use a Connector



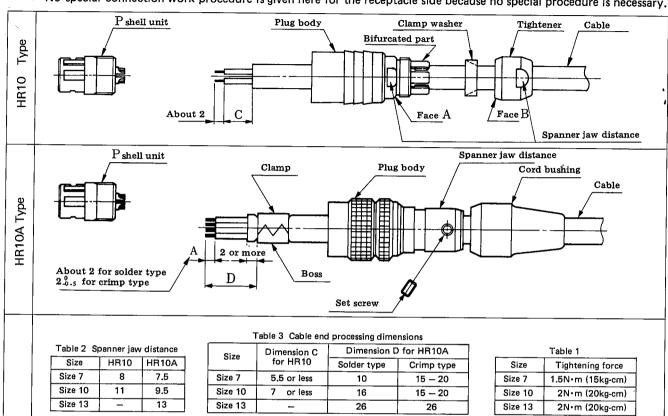
Wiring Tool



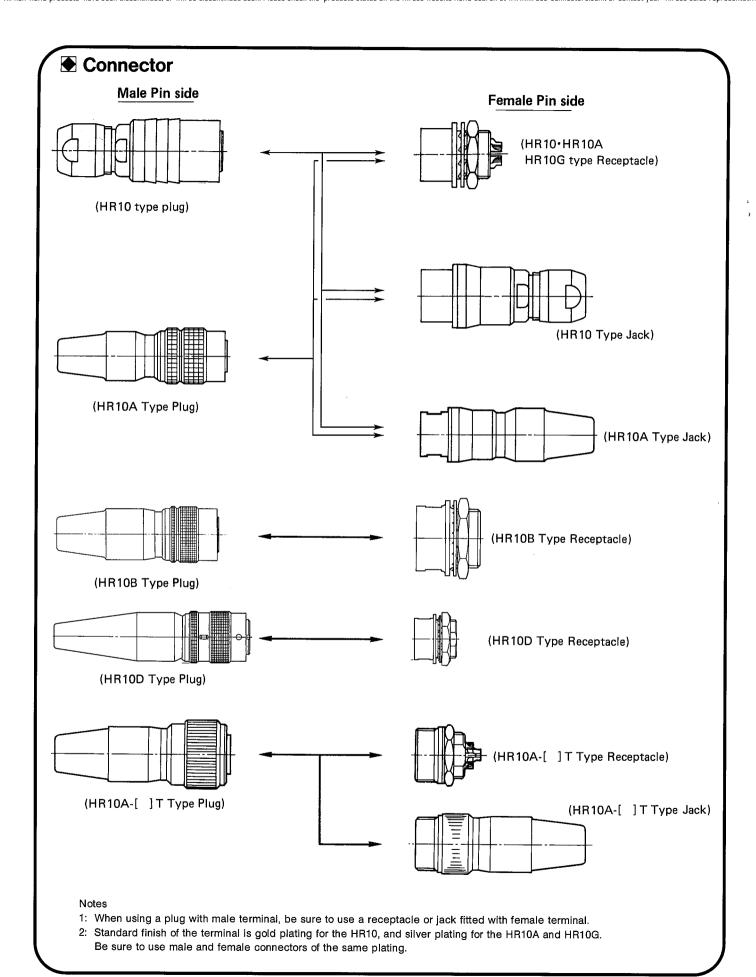


HRS No.	Part No.	Applicable connector
150-0009-0	HR10-7P-T01	HR10-7P
150-0010-9	HR10-10P-T02	HR10-10P
150-0011-1	HR10-7J-T03	HR10-7J
150-0012-4	HR10-10J-T04	HR10-10J
150-0059-8	HR10-13P-T05	HR10-13P
150-0060-7	HR10-13J-T06	HR10-13J
150-0056-0	HR10D-13P-T	HR10D-13P

- This applies also to the jack side connection work.
- O No special connection work procedure is given here for the receptacle side because no special procedure is necessary.



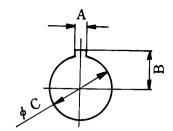
	HR10 Type	HR10A Type
1	Use cables with a nominal sectional area of 0.129 mm² (AWG#26	3) at the finish outside diameters applicable for each size.
2	After processing the cable ends according to the dimensions in ings. Fit the parts to the cable in the following order: tightener, clamp washer, and plug body.	the above drawings, fit the parts to the cable as shown in the drav Fit the parts to the cable in the following order: Cord bushing and plug body.
3	(Solder type) Insert the P shell unit into the assembly jig stand and solder it. (Solder type) After crimping the appropriate crimp terminal to the cable core,	insert the crimp terminal into the terminal hole in the P shell uni
4	Assemble the connector in the following steps. 1 Screw the plug body into the thread in the P shell unit with the tightening force shown in Table 1 using a torque wrench with a fixed torque. Before tightening the plug body, slacken part C so that no load is applied to the soldered wires. 2 Apply the clamp washer to the bifurcated part of the plug body, and then tighten the tightener until surface B touches the plug body surface A.	 Fix by caulking the clamp accompanying the cable wit the cable crimping tool (HR10A-TC-02). Screw the plug body into the thread in the P shell unt with a tightening force shown in Table 1 using a torque wrench with a fixed torque. Before tightening the plug body, slacken the part D s so that no load is applied to the soldered wires. Tighten the set screw so that the tip of the screw presse one of the two bosses on the clamp. Fix the set screw with a tightening torque of 0.3i
		(3kg-cm). 4 Attach the cord bushing to the plug body.



Recommended Mounting Hole

Mounting hole dimension shown here is tight by hexagon nut from back side.

Shell size Map mark	7 size	10 size	13 size
Α	1.6+0-1	2.6+0-1	2.6+0.1
В	5.1 ⁺⁰⁻¹	6.6+0.1	8.6+0.1
φC	8.1+0.1	11.1+0-1	14.1 +0.1
Panel thickness	0.7 ~ 2	0.7 ~ 2	0.8 ~ 1.5



Contact Arrangement

Shell size	7 size			10 size	
Contact arrangement	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	(a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	(6 (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		▼ (8
No. of pins	4	5	6	10	12
Withstanding voltage	AC500V for a minute	AC300V for a minute		AC300V for a minute	
Current rating	2A	2A		2A	
Insulation resistance	MIN 1,000 MΩ	MIN 1,000 MΩ		MIN 1,000 MΩ	
Contact resistance	MAX 10 mΩ	MAX 10 mΩ		MAX 10 mΩ	
Solder pot inside dia.	φ0.8	φ0.8		φ0.8	

Shell size	10 size	13 size	
Contact arrangement	(0) (0) (0) (0) (0) (0) (0) (0) (0) (0)	1234 (567)8910 (1193)1436 (178)199	
No. of pins	10 + Coaxial contact	20	
Withstanding voltage	AC300V for a minute	AC300V for a minute	
Current rating	2A	2A	
Insulation resistance	MIN 1,000 MΩ	MIN 1,000 MΩ	
Contact resistance	MAX 10 mΩ	MAX 10 mΩ	
Solder pot inside dia.	<u>-</u>	φ0.8	

- Note 1. The contact arrangement shown here is the mating surface of socket insert assembled in a receptacle.
 - 2. The withstanding voltage shown here is test voltage value.
 - 3. The insulation resistance value is measured at DC100V.
 - 4. The contact resistance value is measured at DC1A.

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