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# RM SERIES SHELL SIZE 12 - 31mm CIRCULAR CONNECTORS

#### Introduction

RM Series are compact, circular connectors HIROSE has developed as the result of many years of research and proven experience to meet the most stringent demands of communication equipment as well as electronic equipment. RM Series is available in 5 shell sizes: 12, 15, 21, 24, and 31. There are also 16 kinds of contacts: 2, 3, 4, 5, 6, 7, 8, 10, 12, 15, 20, 31, 40, and 55 (contacts 2 and 4 are available in two types). And also available water proof type in special series. The lock mechanisms with thread coupling

type, bayonet sleeve type or quick detachable type are easy to use.

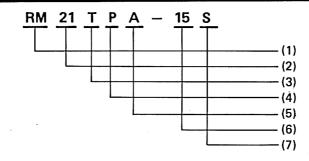
Various kinds of accessories are available.

RM Series are miniaturized in size, rugged and excellent in mechanical and electrical performance thus making it possible to meet the most stringent demands of users. Refer to the contact arrangements of RM series connectors on page 60~61.

### Main materials (Note that the above may not apply depending on type.)

Part	Material	Finish
Shell	Brass and Zinc alloy	Nickel plated
Insulator	Synthetic resin	
Male contact	Copper alloy	Silver plated
Female contact	Copper alloy	Silver plated

## **Ordering Information**



#### Product identification

(1) RM: Round Miniature series name

(2) 21: The shell size is figured by outer diameter of fitting section of plug and available in 5 types, 12, 15, 21, 24, 31.

(3) T: Type of lock mechanism as follows;

T: Thread coupling type

B: Bayonet sleeve type

Q: Quick detachable type

(4) P: Type of connector

P: Plug

R: Receptacle:

J: Jack

WP: Waterproof

WR: Waterproof receptacle P-CP\*: Cord clamp for plug

(\* is shown applicable diameter of cable)

R-C: Cap of receptacle

R-F: Square flange for receptacle

P-B: Cord bushing

(5) A: Shell model change mark

Each time the shell undergoes a change in enclosure or the like, it is marked as A, B, D, E. Do not use the letter for C, J, P, R avoiding confusion.

(6) 15: Number of pins

(7) S: Shape of contact

P: Pin

S: Socket

However, connecting method of contact or type shall be classified adding with alphabetical letter.

### Standard RM Series

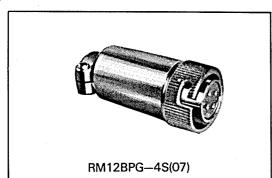
### **RM12B Connectors**

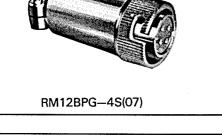
(Bayonet sleeve type)

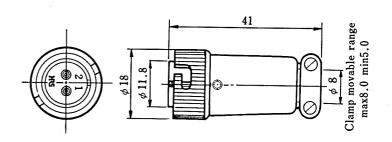
Plug

Standard RM series are more compact and higher in performance than our former models. Mechanically stable thanks to its rigid and simple construction. Used widely for all types of equipment, although no special measures are taken for resistance to harsh conditions such as dustproof or waterproof design.

RM12B connectors (bayonet sleeve type) are provided with a bayonet sleeve locking mechanism, the most compact in the series.









(An example in shape)				
HRS No.	Part No.	HRS No		
109-0567-0-07	RM12BPG-2S(07) 2		109-0811	
1090568207	RM12BPG-3S(07)	3	109-0812	
109-0569-5-07	RM12BPG-4S(07)	4	109-0813	
109-0570-4-07	RM12BPG-5S(07)	5	109-0814	
109-0571-7-07	RM12BPG-6S(07)	6	109-0815	
109-0616-3-07	RM12BPG-7S(07)	7	109-0816	

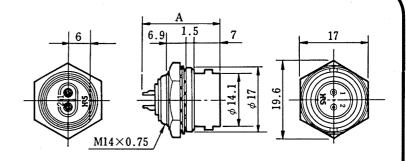
HRS No.	Part No.	No. of pins
109-0811-9	RM12BPG-2PH	2
109-0812-1	RM12BPG-3PH	3
109-0813-4	RM12BPG-4PH	4
109-0814-7	RM12BPG-5PH	5
10908150	RM12BPG-6PH	6
109-0816-2	RM12BPG-7PH	7

## Receptacle

#### Receptacle(Jam Nut to be fastened)



RM12BRD-4PH





RM12BRD-4S

#### (An example in shape)

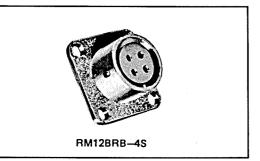
HRS No.	Part No. No. of pins		Α
109-0823-8	RM12BRD-2PH	2	20.5
109-0824-0	RM12BRD-3PH	3	20.5
109-0825-3	RM12BRD-4PH	4	20.5
109-0826-6	RM128RD-5PH	5	20.5
109-0827-9	RM12BRD-6PH	6	20.5
109-0828-1	RM12BRD-7PH	7	20.5

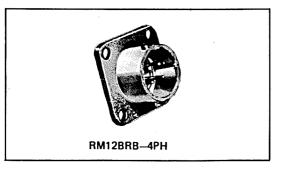
Remark:	For	mounting	holes,	see	page	60

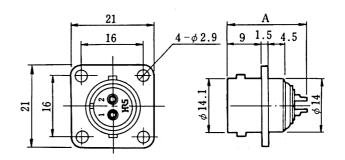
HRS No.	Part No.	No. of pins	Α
109-0609-8	RM12BRD-2S	2	21.6
109-0610-7	RM12BRD-3S	3	21.6
109-0611-0	RM12BRD-4S	4	21.6
109-0612-2	RM12BRD-5S	5	21.6
109-0613-5	RM12BRD-6S	6	21.6
109-0619-1	RM12BRD-7S	7	21.6

# Receptacle

### Receptacle (square flange) single methed





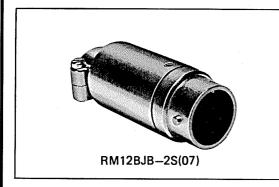


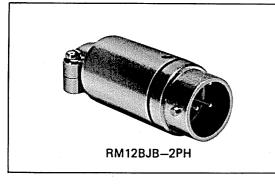
#### (An example in shape)

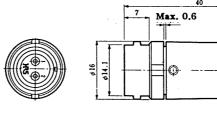
		· · · · · ·	,,,,,,,		sapc,	· ·	
HRS No.	Part No.	No. of pins	А		HRS No.	Part No.	No. of pins
109-0577-3	RM12BRB-2S	2	21.6		109-0817-5	RM12BRB-2PH	2
109-0578-6	RM12BRB-3S	3	21.6		109-0818-8	RM12BRB-3PH	3
109-0579-9	RM12BR8-4S	4	21.6		109-0819-0	RM12BRB-4PH	4
109-0580-8	RM128R8-5S	5	21.6		109-0820-0	RM12BRB-5PH	5
109-0581-0	RM12BRB-6\$	6	21.6	]	109-0821-2	RM12BRB-6PH	6
109-0615-0	RM12BRB-7S	7	21.6		109-0822-5	RM12BRB-7PH	7

For mounting holes, see page 60.
 Note that the RM12BRB differs in mounting dimensions from the RM12BR-F.

#### **Jack**







#### (An example in shape)

HRS No.	Part No.	No. of pins
109-0638-6-07	RM12BJB-2S(07)	2
1090639907	RM12BJB-3S(07)	3
109-0640-8-07	RM12BJB-4S(07)	4
109-0641-0-07	RM12BJB-5S(07)	5
1090642-307	RM12BJB-6S(07)	6
109-0643-6-07	RM12BJB-7S(07)	7

HRS No.	Part No.	No. of pins
109-0829-4	RM12BJB-2PH	2
109-0830-3	RM12BJB-3PH	3
109-0831-6	RM12BJB-4PH	4
109-0832-9	RM12BJB-5PH	5
109-0833-1	RM12BJB-6PH	6
109-0834-4	RM12BJB-7PH	7

Α 20.5 20.5 20.5 20.5

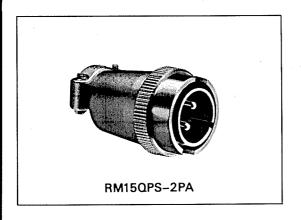
20.5 20.5

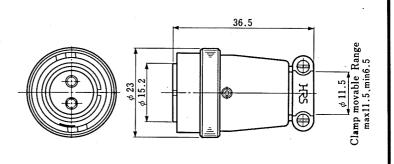
# Model RM15Q Connectors

(Quick insertion/extraction system)

The model RM15Q connectors have a quick insertion/ extraction locking mechanism. Developed by HIROSE, this mechanism allows quicker operation than the locking mechanism of a thread coupling or bayonet coupling.

### Plug



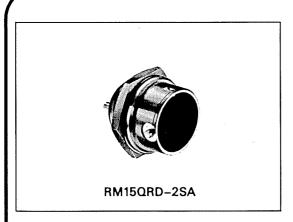


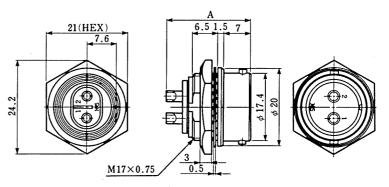
(An example in shape)

HRS No.	Part No.	No. of pins
109-0839-8	RM15QPS-2SA	2
109-0840-7	RM15QPS-4SA	4
109-0852-6	RM15QPS-8S	8
10908539	RM15QPS-10S	10
109-0981-9	RM15QPS-12S	12

HRS No.	Part No.	No. of pins
109-0896-1	RM15QPS-2PA	2
109-0897-4	RM15QPS-4PA	4
10908500	RM15QPS-8PH	8
109-0851-3	RM15QPS-10PH	10
10909806	RM15QPS-12PH	12

# Receptacle (Jam Nut to be fastened)





(An example in shape)

	HRS No.	Part No. No. of pins		Α
	109-0880-1	RM15QRD-2PA	2	21
ı	109-0881-4	RM15QRD-4PA	4	21
-	109-0854-1	RM15QRD-8PH	8	20.6
	109-0855-4	RM15QRD-10PH	10	20.6
	10909821	RM15QRD-12PH	12	20.6

HRS No.	Part No.	No. of pins	А
109-0841-0	RM15QRD-2SA	2	21.7
109-0842-2	RM15QRD-4SA	4	21.7
109-0864-5	RM15QRD-8S	8	21.6
109-0779-8	RM15QRD-10S	10	21.6
109-0983-4	RM15QRD-12S	12	21.6

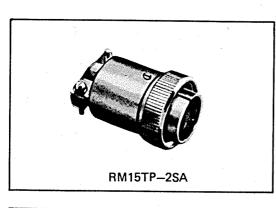
Remark: For mounting holes, see page 60.

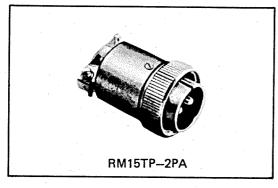
### RM( )T Connectors

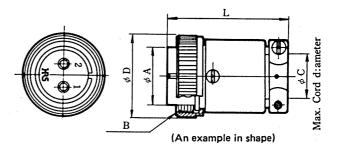
#### (Thread coupling)

### Plug

The RM[]T connectors have a screw coupling locking mechanism. Four models of the connectors with shell sizes of 15, 21, 24, and 31 have this locking mechanism. A connector of shell size 15 uses threads of 1 mm pitch. Connectors of shell size 21 and larger use trapezoidal threads for quick operation.



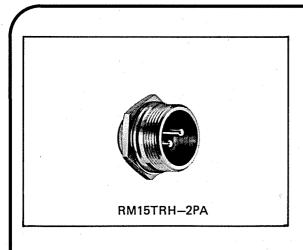


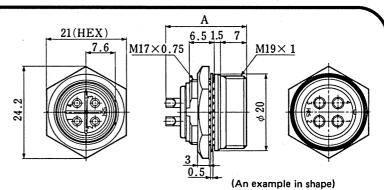


	·					·	$\overline{}$
HRS No.	Part No.	No. of pins	φΑ	В	φС	φC	L
10908450	RM15TP-2SA	2	15.2	M19x1	11.5	21.5	34
10908987	RM15TP-2PA	2	15.2	M19x1	11.5	21.5	34
109-0846-3	RM15TP-4SA	4	15.2	M19×1	11.5	21.5	34
10908990	RM15TP-4PA	4	15.2	M19x1	11.5	21.5	34
10900532	RM15TP-8S	8	15.2	M19x1	11.5	21.5	34
109-0856-7	RM15TP-8PH	8	15.2	M19x1	11.5	21.5	34
10900558	RM15TP-10S	10	15.2	M19x1	11.5	21.5	34
109-0857-0	RM15TP-10PH	10	15.2	M19×1	11.5	21.5	34
109-0321-0	RM21TP-15S	15	21	TM25x2	15	28	37
109-0323-5	RM21TP-15P	15	21	TM25x2	15	28	37
109-0322-2	RM21TP-20S	20	21	TM25x2	15	28	37
109-0324-8	RM21TP-20P	20	21	TM25×2	15	28	37
10904816	RM24TP-31S	31	24.3	TM29x2	19	32	41
109-0482-9	RM24TP-31P	31	24.3	TM29x2	19	32	41
109-0361-4	RM31TP-40S	40	30.8	TM35x2	26	40	47
109-0363-0	RM31TP-40P	40	30.8	TM35x2	26	40	47
109-0362-7	RM31TP-55S	55	30.8	TM35×2	26	40	47
109-0364-2	RM31TP-55P	55	30.8	TM35x2	26	40	47

Remark: TM25X2 is shown trapezoidal thread of 30°.

# Receptacle (Jam Nut to be fastened)

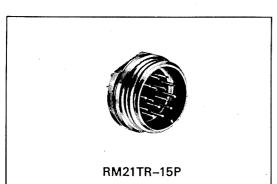


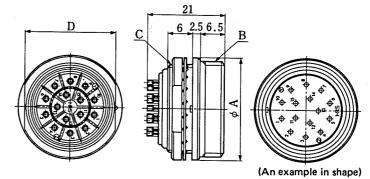


Part No.	No. of pins	Α
RM15TRH-2PA	2	21
RM15TRH-2SA	2	21.7
RM15TRH-4PA	4	21
RM15TRH-4SA	4	21.7
RM15TRH-8PH	8	20.6
RM15TRH-8S	8	21.6
RM15TRH-10PH	10	20.6
RM15TRH-10S	10	21.6
	RM15TRH-2PA RM15TRH-2SA RM15TRH-4PA RM15TRH-4SA RM15TRH-8PH RM15TRH-8S RM15TRH-10PH	RM15TRH-2PA 2 RM15TRH-2SA 2 RM15TRH-4PA 4 RM15TRH-4SA 4 RM15TRH-8PH 8 RM15TRH-8S 8 RM15TRH-10PH 10

Remark: For mounting holes, see page 60.

# Receptacle



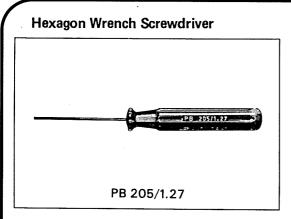


HRS No.	Part No.	No. of pins	φΑ	В	С	D
109-0325-0	RM21TR-15P	15	27	TM25x2	M22×0.75	23.5
109-0327-6	RM21TR-15S	15	27	TM25x2	M22×0.75	23.5
109-0326-3	RM21TR-20P	20	27	TM25x2	M22x0.75	23.5
109-0328-9	RM21TR-20S	20	27	TM25x2	M22x0.75	23.5
109-0483-1	RM24TR-31P	31	31	TM29x2	M26×0.75	28
10904844	RM24TR-31S	31	31	TM29x2	M26x0.75	28
109-0365-5	RM31TR-40P	40	37	TM35x2	M32x0.75	34
109-0367-0	RM31TR-40S	40	37	TM35x2	M32×0.75	34
109-0366-8	RM31TR-55P	55	37	TM35x2	M32×0.75	34
109-0368-3	RM31TR-55S	55	37	TM35×2	M32×0.75	34

Remarks: 1. TM25X2 is shown trapezoidal thread of 30°.

2. For mounting holes, see page 60.

# Tool



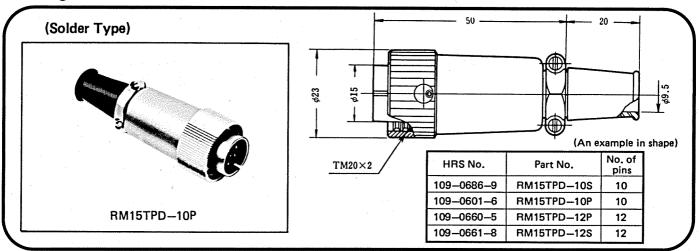
HRS No.	Part No.	Remark	
1500066-3	PB205/1.27		

### RM15T(D Type) connectors

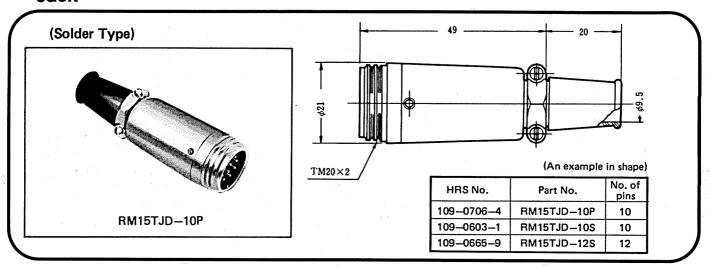
The RM15T (model D) connectors are designed for high grade of commercial applications such as VTR. These connectors boast a highly refined design.

Since the model D uses locking threads of 30° trapezoidal threads, it is incompatible with the RM15T connectors.

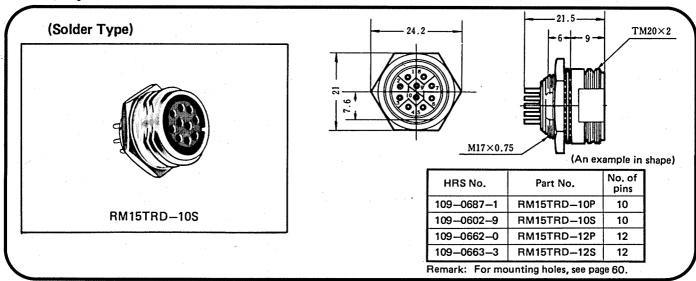
#### Plug



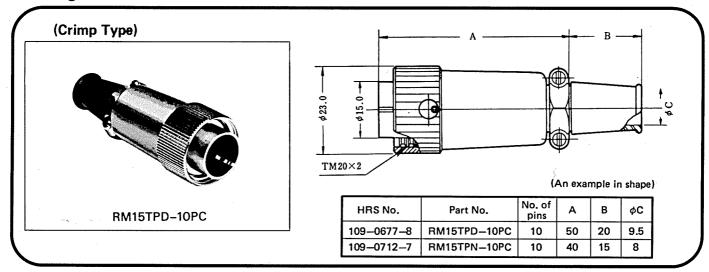
#### **Jack**



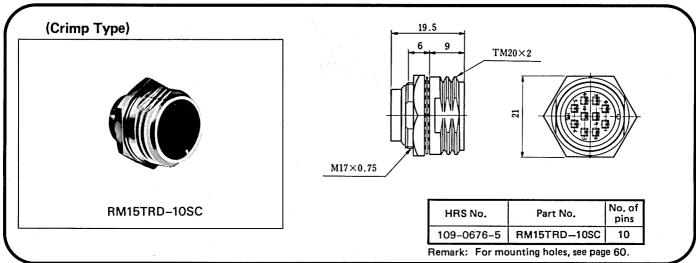
### Receptacle



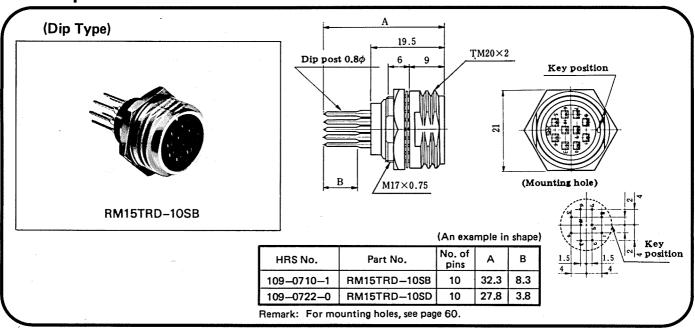
## Plug



## Receptacle

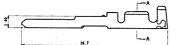


### Receptacle



# **■**Contact

#### Pin contact





Type	HRS No.	Part No.	В	С	Applicable wire
Loose	109-0668-7	RM-PC-112	1.6	2.0	AWG#20~#24
contact	109-0672-4	RM-PC-122	1.45	1.5	AWG#24~#28
Chain	109-0670-9	RM-PC-212	1.6	2.0	AWG#20~#24
contact	109-0674-0	RM-PC-222	1.45	1.5	AWG#24~#28

SectionA-A

Fig-1

#### Socket contact





Type	HRS No.	Part No.	В	С	Applicable wire
Loose	109-0669-0	RM-SC-112	1.6	2.0	AWG#20~#24
contact	109-0673-7	RM-SC-122	1.45	1.5	AWG#24~#28
Chain	109-0671-1	RM-SC-212	1.6	2.0	AWG#20~#24
contact	109-0675-2	RM-SC-222	1.45	1.5	AWG#24~#28

SectionA-A

Fig-2

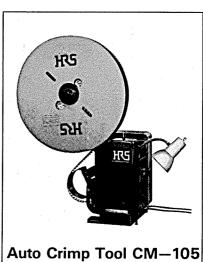
Note: Loose-piece pins are available in pack.

Each pack contains 100 pieces.

Reel pins are available, one reel contains 8,000 pieces.

# **●**Tools

Туре	Item	HRS No.	Part No.	Applicable terminal	Applicable wire	
	150-0006-1 RM-TC-11	DM-TO-11	RM-PC-112	AVIO # 00 # 04		
Manual	Manual crimping	150-0006-1	RM-IC-II	RM-SC-112	AWG#20~#24	
Manuai	tool	RM-TC-12	RM-PC-122	AWG#24~#28		
		150 0007-4	HWI-TO-12	RM-SC-122	AVVG#24~#28	
	Automatic crimping machine body	901-0005-4	CM-105	—	<del></del>	
Automatic		901-2017-4	AP105-RM-1	RM-PC-212	AWG#20~#24	
Automatic	Applicator	901-2017-4	AP105-KM-1	RM-SC-212	AWG#20~#24	
	901-2018-7	AP105-RM-2	RM-PC-222	AWG#24~#28		
		301 2010 7	AF 103-NW-2	RM-SC-222	AVVG#24~#28	
E	extraction	150-0008-7	RM-TP		_	







**Hand Crimp Tool** 

**Extraction Tool** 

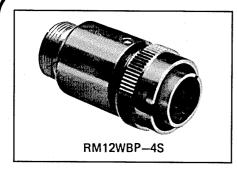
### Waterproof RM Series

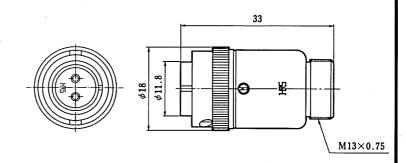
The Waterproof RM Series has been developed by redesigning the standard RM Series, but maintaining the same electrical speicifications as the standard RM Series.

### Model RM12WB Connectors

The RM12B is designed to be watertight for 48 hours at 0.5 M under water, and the RM15T or above is designed to be watertight for 48 hours at 1.0 M under water.

## Plug





# (An example in shape)

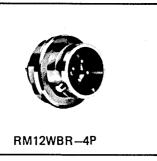


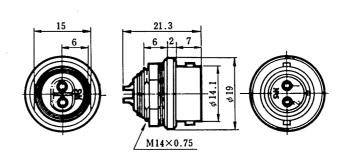
HRS No.	Part No.	No. of pins
109-1141-3	RM12WBP-2S	2
109-1142-6	RM12WBP-3S	3
10911439	RM12WBP-4S	4
109-1144-1	RM12WBP-5S	5
109-1145-4	RM12WBP-6S	6

HRS No.	Part No.	No. of pins
109-1146-7	RM12WBP-2P	2
109-1147-0	RM12WBP-3P	3
109-1148-2	RM12WBP-4P	4
109-1149-5	RM12WBP-5P	5
109-1150-4	RM12WBP-6P	6

Note 1: Be sure to use plugs in combination with code clamps.

### Receptacle





(An example in shape)



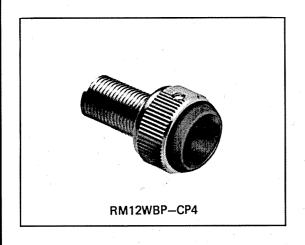
RM12WBR-4S

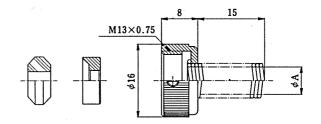
#### No. of HRS No. Part No. pins 109-1021-1 RM12WBR-2P 2 109-1022-4 RM12WBR-3P 3 109-1023-7 RM12WBR-4P 4 109-1024-0 RM12WBR-5P 5 109-1025-2 RM12WBR-6P

Remark: For mounting holes, see page 60.

	HRS No.	Part No.	No. of pins
	109-1026-5	RM12WBR-2S	2
ĺ	109-1027-8	RM12WBR-3S	3
	109-1028-0	RM12WBR-4S	4
ĺ	109-1029-3	RM12WBR-5S	5
	109-1030-2	RM12WBR-6S	6

# **Cord Clamp**





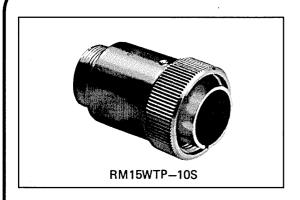
#### (An example in shape)

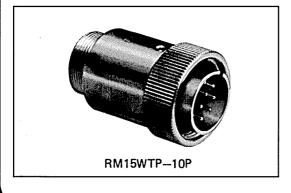
HRS No.	Part No.	φΑ	Cable dia.
109-1151-7	RM12WBP-CP4	5.5	φ4
109-1152-0	RM12WBP-CP5	5.5	φ5
109-1153-2	RM12WBP-CP6	7.5	φ6
109-1154-5	RM12WBP-CP7	7.5	φ7

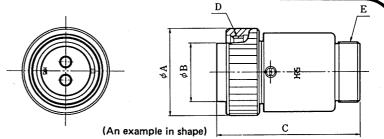
Note: Carefully choose the applicable cable because clamping force and waterproofness differ according to the type.

# RM( )WT type connector

# Plug







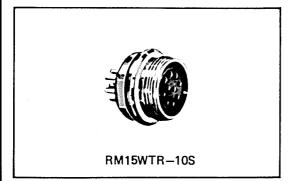
HRS No.	Part No.	No. of pin	фΑ	φВ	С	D	E
109-1241-8	RM15WTP-2S	2	23	15.2	36.8	M19×1	M16×0.75
109-1242-0	RM15WTP-4S	4	23	15.2	36.8	M19×1	M16×0.75
109-1243-3	RM15WTP-8S	8	23	15.2	36.8	M19×1	M16×0.75
109-1244-6	RM15WTP-10S	10	23	15.2	36.8	M19×1	M16×0.75
109-1262-8	RM15WTP-12S	12	23	15.2	36.8	M19×1	M16×0.75
109-1245-9	RM15WTP-2P	2	23	15.2	36.8	M19×1	M16×0.75
109-1246-1	RM15WTP-4P	4	23	15.2	36.8	M19X1	M16×0.75
109-1247-4	RM15WTP-8P	8	23	15.2	36.8	M19×1	M16×0.75
109-1248-7	RM15WTP-10P	10	23	15.2	36.8	M19×1	M16×0.75
109-1257-8	RM15WTP-12P	12	23	15.2	36.8	M19×1	M16×0.75
109-1401-2	RM21WTP-15S	15	32	21	37.5	TM25×2	M20×0.75
109-1402-5	RM21WTP-20S	20	32	21	37.5	TM25×2	M20×0.75
109-1403-8	RM21WTP-15P	15	32	21	37.5	TM25×2	M20×0.75
109-1404-0	RM21WTP-20P	20	32	21	37.5	TM25×2	M20×0.75
109-1491-5	RM24WTP-31S	31	36	24.3	44	TM29×2	M24×0.75
109-1492-8	RM24WTP-31P	31	36	24.3	44	TM29×2	M24×0.75
109-1571-2	RM31WTP-40S	40	42	30.8	52	TM35×2	M28×0.75
109-1572-5	RM31WTP-55S	55	42	30.8	52	TM35×2	M28×0.75
109-1573-8	RM31WTP-40P	40	42	30.8	52	TM35×2	M28×0.75
109-1574-0	RM31WTP-55P	55	42	30.8	52	TM35×2	M28×0.75

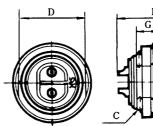
Note 1) Be sure to use plugs in combination with code clamps.

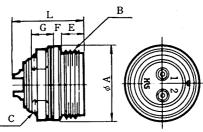
# Receptacle



RM15WTR-10P





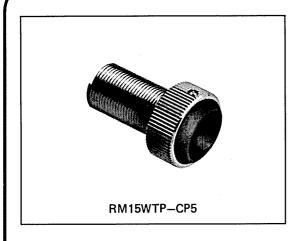


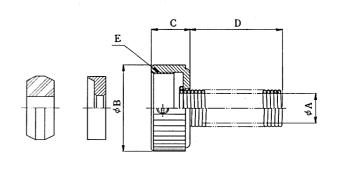
(An example in shape)

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HRS No.	Part No.	No. of pin	φA	В	С	D	E	F	G	L
109-1309-0	RM15WTR-2P	2	22	M19×1	M17×0.75	18	7	2	6	21.0
109-1316-5	RM15WTR-2S	2	22	M19×1	M17×0.75	18	7	2	6	21.5
109-1311-1	RM15WTR-4P	4	22	M19×1	M17×0.75	18	7	2	6	21.0
109-1318-0	RM15WTR-4S	4	22	M19×1	M17×0.75	18	7	2	6	21.5
109-1313-7	RM15WTR-8P	8	22	M19×1	M17×0.75	18	7	2	6	20.5
109-1320-2	RM15WTR-8S	8	22	M19×1	M17×0.75	18	7	2	6	21.5
109-1315-2	RM15WTR-10P	10	22	M19×1	M17×0.75	18	7	2	6	20.5
109-1322-8	RM15WTR-10S	10	22	M19×1	M17×0.75	18	7	2	6	21.5
109-1261-5	RM15WTR-12P	12	22	M19×1	M17×0.75	18	7	2	6	21.0
109-1260-2	RM15WTR-12S	12	22	M19×1	M17×0.75	18	7	2	6	21.5
109-1445-8	RM21WTR-15P	15	31	TM25×2	M22×0.75	23.5	6.5	2.5	6	21.0
109-1447-3	RM21WTR-15S	15	31	TM25×2	M22×0.75	23.5	6.5	2.5	6	21.0
109-1446-0	RM21WTR-20P	20	31	TM25×2	M22×0.75	23.5	6.5	2.5	6	21.0
109-1448-6	RM21WTR-20S	20	31	TM25×2	M22×0.75	23.5	6.5	2.5	6	21.0
109-1483-7	RM24WTR-31P	31	35	TM29×2	M26×0.75	28	6.5	2.5	6	21.0
109-1484-0	RM24WTR-31S	31	35	TM29×2	M26×0.75	28	6.5	2.5	6	21.0
109-1525-5	RM31WTR-40P	40	41	TM35×2	M32×0.75	34	6.5	2.5	6	21.5
109-1527-0	RM31WTR-40S	40	41	TM35×2	M32×0.75	34	6.5	2.5	6	21.5
109-1526-8	RM31WTR-55P	55	41	TM35×2	M32×0.75	34	6.5	2.5	6	21.5
109-1528-3	RM31WTR-55S	55	41	TM35×2	M32×0.75	34	6.5	2.5	6	21.5

Remark: For the mounting holes, see page 60.

# **Cord Clamp**





(An example in shape)

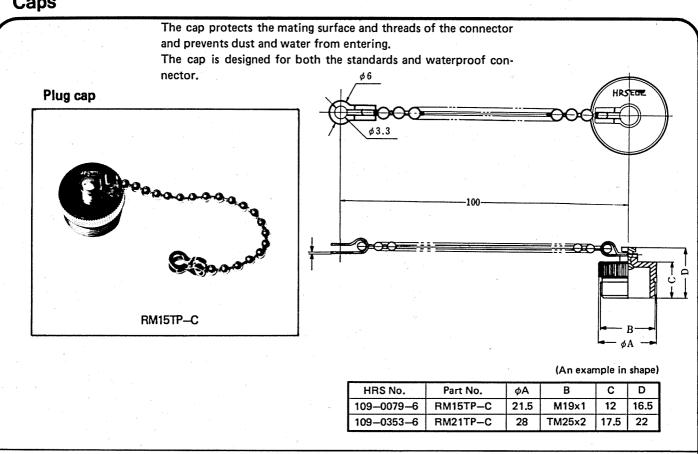
							1
HRS No.	Part No.	φΑ	φВ	С	D	E	Cable dia.
109-1249-0	RM15WTP-CP5	6.5	19	8.5	20	M16×0.75	φ5
109-1250-9	RM15WTP-CP6	6.5	19	8.5	20	M16×0.75	φ6
109-1251-1	RM15WPT-CP7	8	19	8.5	20	M16x0.75	φ7
109-1252-4	RM15WTP-CP8	10.5	19	8.5	20	M16×0.75	φ8
109-1253-7	RM15WTP-CP9	10.5	19	8.5	20	M16x0.75	φ9
109-1254-0	RM15WTP-CP10	10.5	19	8.5	20	M16×0.75	φ10
109-1405-3	RM21WTP-CP8	10.3	23	7.5	30	M20x0.75	φ8
109-1406-6	RM21WTP-CP10	10.3	23	7.5	30	M20×0.75	φ10
109-1407-9	RM21WTP-CP12	12.3	23	7.5	30	M20×0.75	φ12
109-1493-0	RM24WTP-CP10	12.5	27	8	30	M24x0.75	φ10
109-1494-3	RM24WTP-CP12	12.5	27	8	30	M24×0.75	φ12
109-1495-6	RM24WTP-CP14	16.5	27	8	30	M24×0.75	φ14
109-1496-9	RM24WTP-CP16	16.5	27	8	30	M24×0.75	φ16
109-1575-3	RM31WTP-CP10	14.5	31	12	30	M28×0.75	φ10
109-1576-6	RM31WTP-CP12	14.5	31	12	30	M28×0.75	φ12
109-1579-4	RM31WTP-CP14	14.5	31	12	30	M28×0.75	φ14
109-1577-9	RM31WTP-CP16	18.5	31	12	30	M28×0.75	φ16
109-1578-1	RM31WTP-CP18	18.5	31	12	30	M28×0.75	φ18

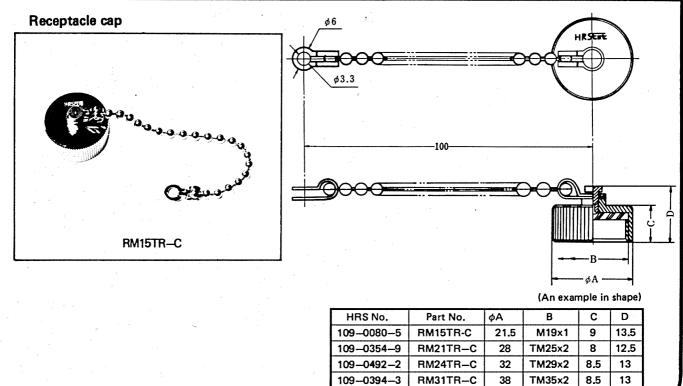
Note: Carefully chose the applicable cable because clamping force and waterproofness differ according to the type.

## **RM Series accessories**

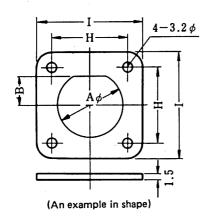
The RM series have accessories such as a cap, cord busing, and square flange designed for different applications.

### Caps





## **Square Flange**

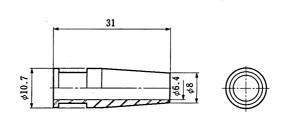


Square Flange is used with Bayonet Lock type receptacle.

HRS No.	Part No.	φΑ	В	Н	ı
1090154001	RM12BR-F(01)	14.1	6	18	26
109-0319-8-01	RM15TR-F(01)	17.1	7.6	20.6	28

## **Cord Bushing**



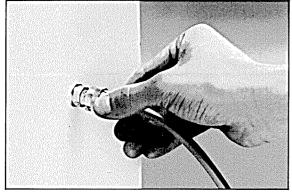


HRS No.	Part No.	Remark
109-0776-0	RM12BPG-B	

### How to use the RM15Q Connectors

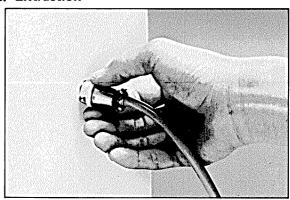
(Quick insertion and extraction system)

#### 1. Insertion



Holding the plug body, match the key with the keyway on the receptacle and push straight in. Turn plug 30° to the right, coupling is completed.

#### 2. Extraction



Holding plug sleeve, twist it 30 degrees to the left. Then, pull it straight for easy releasing.

### **Dimensions of mounting holes**

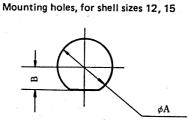
For your reference, the dimensions of receptacle mounting holes are given below for different shell sizes for the nuttightening type and square-flange type.

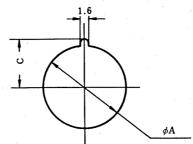
In the case of the nut-tightening type, the dimensions of a

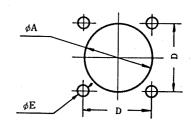
standard connector are the same as those of a waterproof connector. The dimensions of square flanges are those when the flanges are installed on the front surface of a panel. For details, contact our sales or engineering department.

#### Nut tightening type

Mounting holes, for shell sizes 21, 24, 31







Square flange type

Remark: Use a 0.5 ~ 2 mm thickness panel for all shell sizes.

Mounting method	ļ	Nut tightening					Square flange
Locking me	12		15	21	24	31	12
Locking mechanism Sign	BRD•WBR	QRD	TRH•TRD• WTR		TR•WTR		BRB
φΑ	14.1	17.1	17.1	22.1	26.1	32.1	14.5
В	6.1	7,6	7.6	_	_	_	_
С	_	_	-	13.3	14.6	18.3	_
D	<u> </u>	_		_	·	,	16
φΕ		_		_	-	_	2.9

# RM Series contact arrangement

Shell size						
12	2 1					
Contact arrangement number	2	3	4	5	6	7
Withstanding voltage	AC1800V for a minute	AC1500V for a minute	AC1500V for a minute	AC1000V for a minute	AC1000V for a minute	AC1000V for a minute
Current rating	5A	5A	- 5A	5A	5A	5A
Insulation resistance	1000MΩ or more	1000MΩ or more	1000MΩ or more	1000MΩ or more	1000MΩ or more	1000MΩ or more
Contact resistance	4mΩ or less					
Inside diameter of solder pot	ø1.1	ø1.1	ø1.1	ø1.1	ø1.1	ø1.1

# **Contact arrangement**

Shell size	_				a¥n
15		6 6			8 9 1 7 12 10 2 6 0 11 3
Contact arrangement number	2	4	8	10	12
Withstanding voltage	AC1800V for a minute	AC1500V for a minute	AC1500V for a minute	AC1000V for a minute	AC1000V for a minute
Current rating	10A	10A	5A	5A	5A
Insulation resistance	1000MΩ or more	1000MΩ or more	1000MΩ or more	1000MΩ or more	1000MΩ or more
Contact resistance	2mΩ or less	$2m\Omega$ or less	4mΩ or less	$4m\Omega$ or less	4mΩ or less
Inside diameter of solder pot	ø1.7	ø1.7	ø1.1	ø1.1	ø1.1

Shell size			Shell size	
21			24	
Contact arrangement number	15	20	Contact arrangement number	31
Withstanding voltage	AC1500V for a minute	AC1000V for a minute	Withstanding voltage	AC1500V for a minute
Current rating	5A	5A	Current rating	5A
Insulation resistance	1000M $\Omega$ or more	1000M $\Omega$ or more	Insulation resistance	1000MΩ or more
Contact resistance	4mΩ or less	4mΩ or less	Contact resistance	4mΩ or less
Inside diameter of solder pot	ø1.1	ø1.1	Inside diameter of solder pot	ø1.1

Shell size		
31	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
Contact arrangement number	40	55
Withstanding voltage	AC1800V for a minute	AC1500V for a minute
Current rating	5A	5A
Insulation resistance	1000MΩ or more	1000MΩ or more
Contact resistance	4mΩ or less	4mΩ or less
Inside diameter of solder pot	ø1.1	ø1.1

#### Remarks:

- Figures show contact arrangements viewed from the fitting side of socket inserts (connecting side of pin inserts).
- 2. Withstanding voltage is shown in test voltage.
  In ordinary case, use connectors at about 1/3 of test voltage.
- Insulator resistance is a value measured at DC 500V.
- 4. Contact resistance is a value measured at DC 1A.