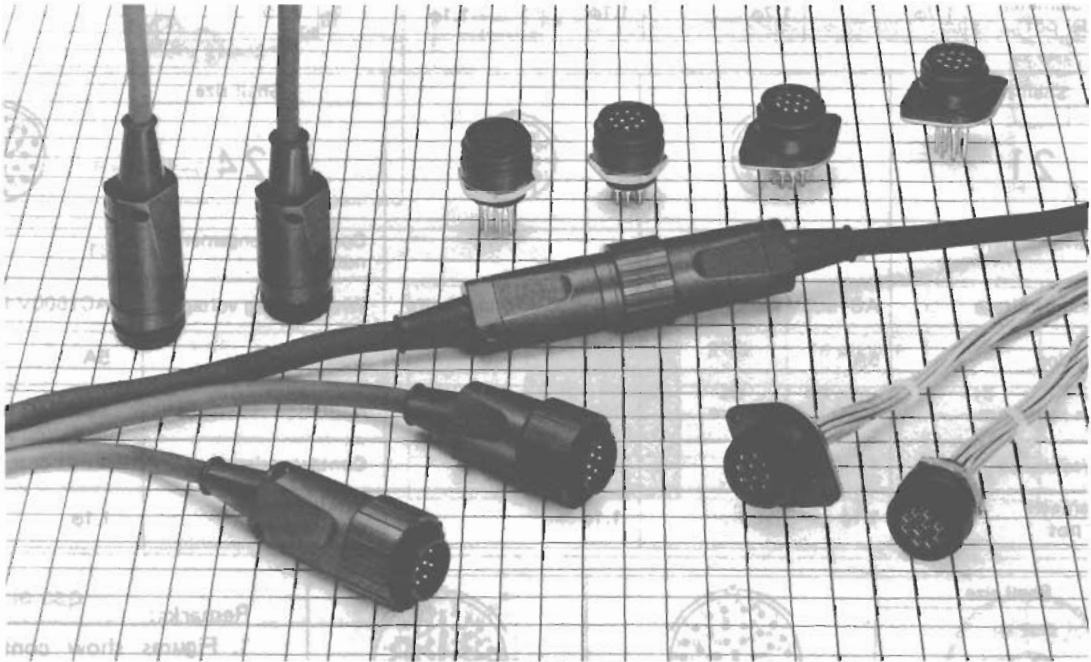


RM215T•315 SERIES PLASTIC 10PIN VIDEO CONNECTORS

Introduction

RM215T series and RM315T series are newly developed 10 pin circular connectors primarily for Video Equipment applications. To cope with small size and light weight tendency in video decks and cameras, HIROSE now introduces this newly designed RM215T series and RM315T

series with plastic body. Keeping complete compatibility with current meter RM15T series, the RM215T and RM315 series offer application to wide range of products, Both crimp and dip solder versions are available.



Features

1. Electrically and mechanically strong glass-filled polycarbonate, UL94V-0, is used for connector body.
2. The weight is about 40% less than current metal types.
3. Mating Key is made of metallic material to offer long life stable performance even in coupling onto current metal RM15T series.
4. Two types of connector body, long and short in length, are available for the plug and jack. A receptacle can be
5. mounted with either flange method or with a hexagon nut and each of these methods is supplied with either crimp contacts or dip solder contacts.
6. The simple and refined appearance with black matte finish offers a good appearance to any equipment.
7. A flange method receptacle is supplied with 45 degree rotated flange with tapping screws for two mounting positions to enhance space and labor saving.

Material and Finish

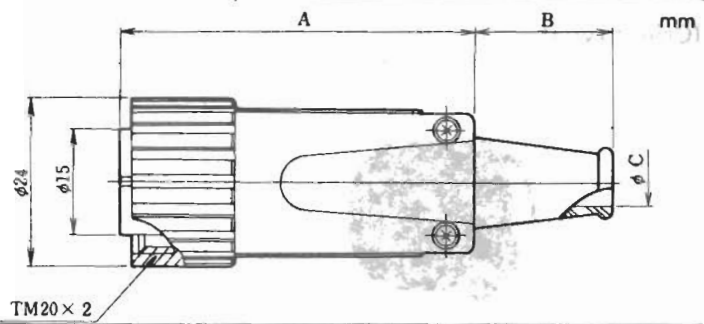
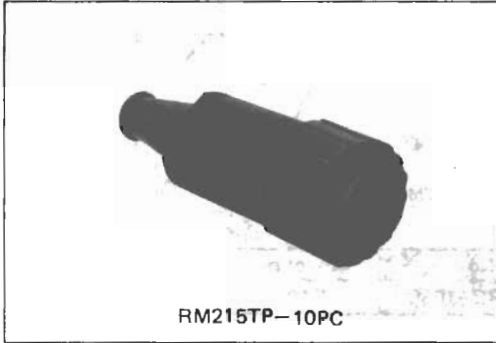
Molding and

Connector Body : UL94V-0 Glass-filled Polycarbonate, Black

Pin Contact : Phosphor Bronze, Silver plated

Socket Contact : Phosphor Bronze, Silver plated

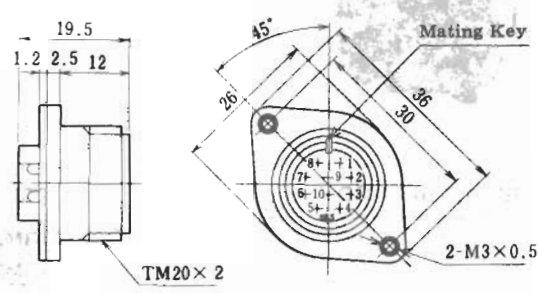
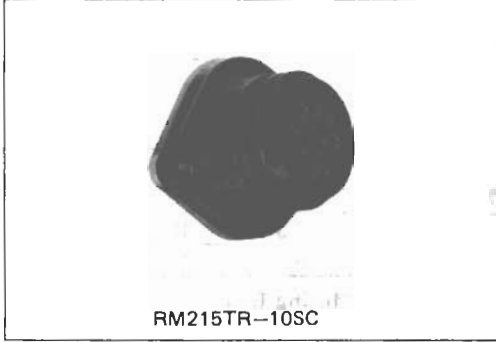
(Crimp type)



HRS No.	Part No.	A	B	φC	No. of Pin	Weight
109-2001-0	RM215TP-10PC	50	20	6.8	10	18g
109-2002-2	RM215TPA-10PC	41	15	8	10	16g
109-2002-2(01)	RM215TPA-10PC(01)	41	15	6.8	10	16g

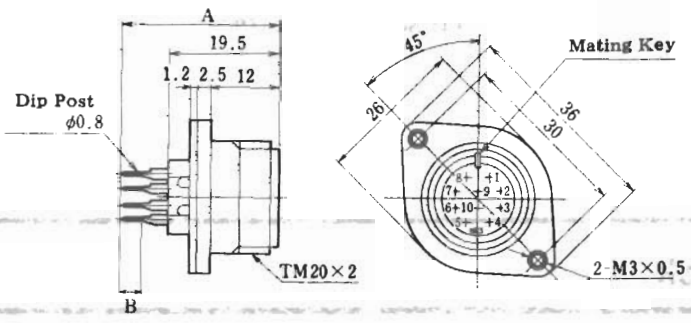
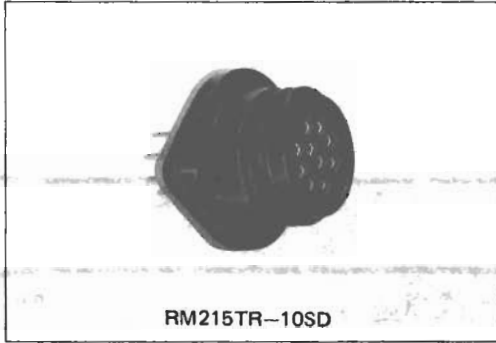
Flange Type Receptacle

(Crimp type)



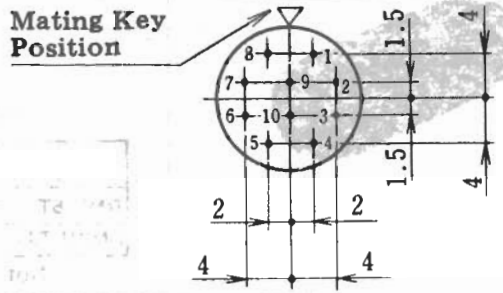
Part No.	No. of pin	Weight
RM215TR-10SC	10	11g

(Dip Soldering type)



Part No.	A	B	No. of pin	Weight	Remark
RM215TR-10SD	27.8	3.8	10	12g	Short Post
RM215TR-10SE	29.3	5.3	10	12g	Middle Post
RM215TR-10SB	32.3	8.3	10	12g	Long Post

Dip Soldering Pattern

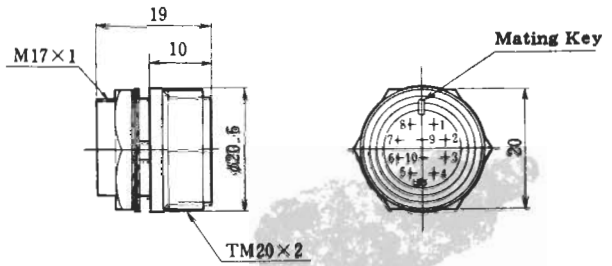


Hexagon Nut Type Receptacle

(Crimp type)



RM215TRE-10SC

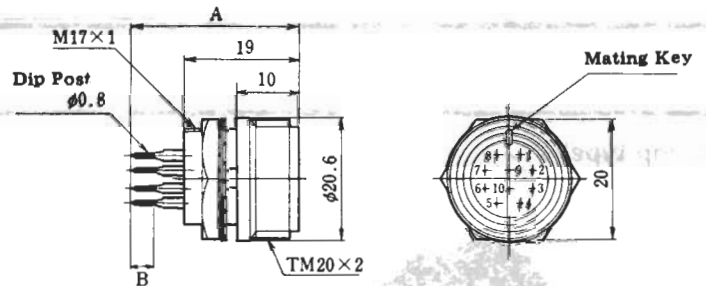


Part No.	No. of pin	Weight
RM215TRE-10SC	10	9g

(Dip Soldering type)

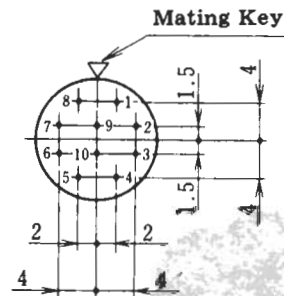


RM215TRE-10SD



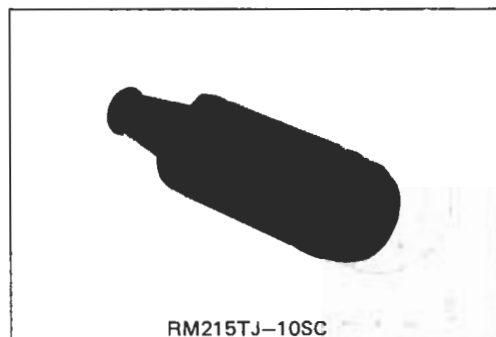
Part No.	A	B	No. of pin	Weight
RM215TRE-10SD	27.8	3.8	10	10g
RM215TRE-10SE	29.3	5.3	10	10g
RM215TRE-10SB	32.3	8.3	10	10g

Dip Soldering Pattern

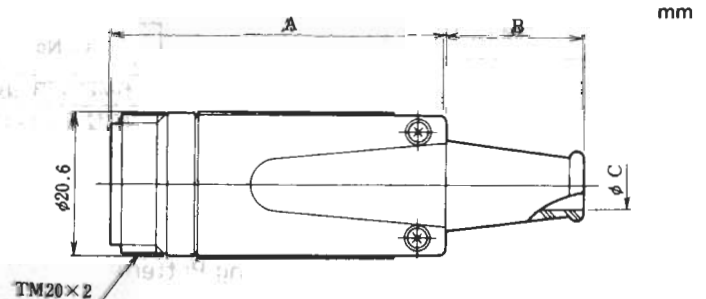


Jack

(Crimp type)



RM215TJ-10SC

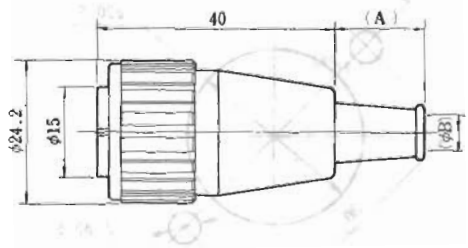


Part No.	A	B	φC	No. of pin	Weight	Remark
RM215TJ-10SC	47	20	6.8	10	18g	Long Body
RM215TJA-10SC	38	15	8	10	16g	Short Body

Note: Others are available in cable size φC.

RM315T Series Plug

Crimp type

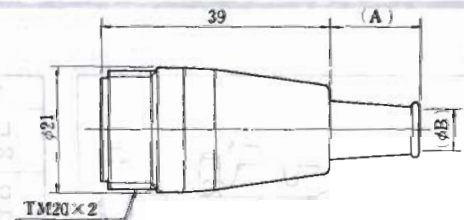


Part No.	A	φB	Weight
RM315TP-PC	15	7.3	11 g
RM315TPA-PC	15	7.3	11 g
RM315TPE-10PC	17	6.3	11 g

Note: Others are available in cable size φc.

Jack

Crimp type



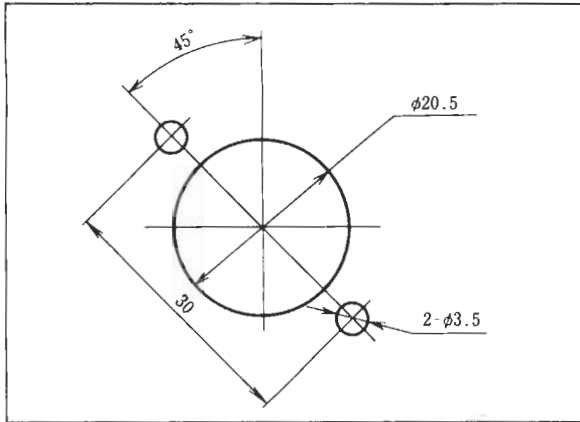
Part No.	A	φB	Weight
PM315TJ-10SC	15	7.3	11 g
PM315TJA-10SC	15	7.3	11 g
PM315TJB-10SC	15	6.8	11 g

Note: Others are available in cable size φc.

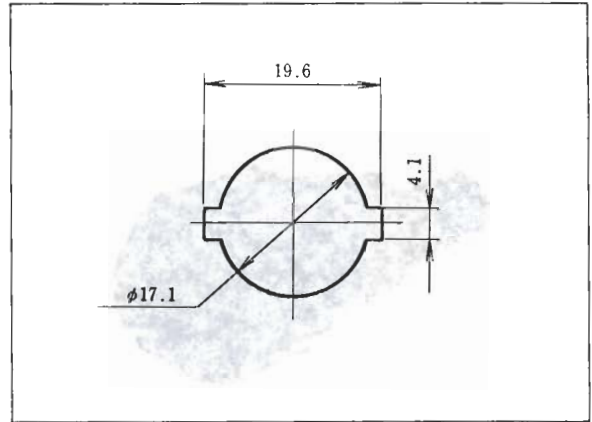
Mounting Cutout

mm

RM215TR Flange type



RM215TRE Hexagon Nut type



○ Applicable Connector

Part No.
RM215TR-10SC
RM215TR-10SD
RM215TR-10SB
RM215TR-10SE

○ Applicable Connector

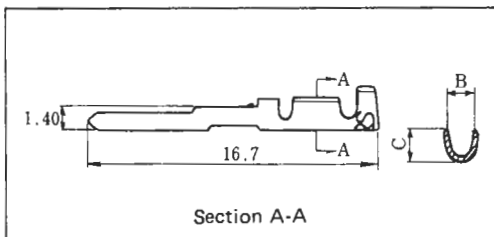
Part No.
RM215TRE-10SC
RM215TRE-10SD
RM215TRE-10SB
RM215TRE-10SE

- 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 maximum 5mm, because this type is mounted on the back surface of panel.
3. The applicable panel thickness for a hexagon nut fastening type is maximum 6mm and minimum 3mm.

Contact

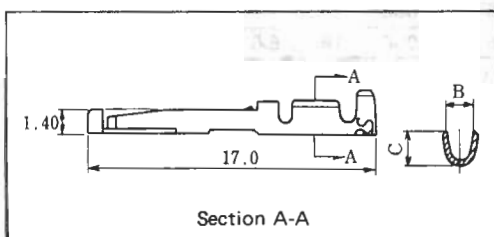
mm

Male pin



Type	Part No.	B	C	Applicable Wire	Packing
Loose contact	RM-PC-112	1.6	2	AWG #20~#24	100 pin per bag
	RM-PC-122	1.45	1.5	AWG #24~#28	
Chain contact	RM-PC-212	1.6	2	AWG #20~#24	8000 pin per roll
	RM-PC-222	1.45	1.5	AWG #24~#28	

Female pin



Type	Part No.	B	C	Applicable Wire	Packing
Loose contact	RM-SC-112	1.6	2	AWG #20~#24	100 pin per bag
	RM-SC-122	1.45	1.5	AWG #24~#28	
Chain contact	RM-SC-212	1.6	2	AWG #20~#24	8000 pin per roll
	RM-SC-222	1.45	1.5	#24~#28	

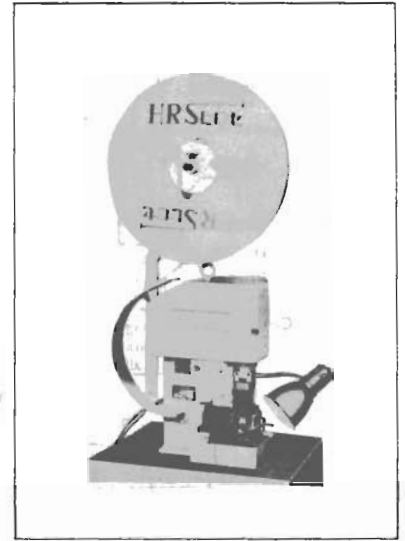
Type	Part No.	Applicable Cable
Hand Crimp Tool	RM-TC-11	AWG#20~#24
	RM-TC-12	AWG#24~#28
Auto Crimp Tool	CM-103	_____
Extraction Tool	RM-TP	_____



Hand Crimp Tool



Extraction Tool



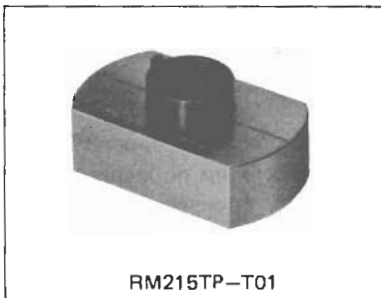
Auto Crimp Tool CM-103

Connector Assembly Tools

In assembling a plug or a jack, follow the procedure indicated in the next page using the tools shown below.

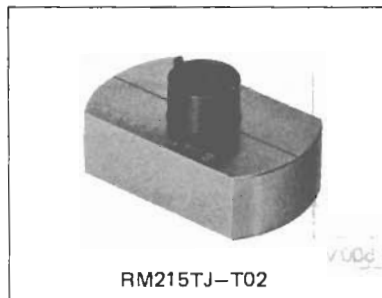
Type	Part No.	Applicable Connector
Plug Fastening Tool	RM215TP-T01	RM215TP-10PC
		RM215TPA-10PC
Jack Fastening Tool	RM215TJ-T02	RM215TJ-10SC
		RM215TJA-10SC
Spanner	RM215-T03	RM215TP-10PC
		RM215TJ-10SC
Spanner for Short Body	RM215A-T04	RM215TPA-10PC
		RM215TJA-10SC

(Plug Fastening Tool)



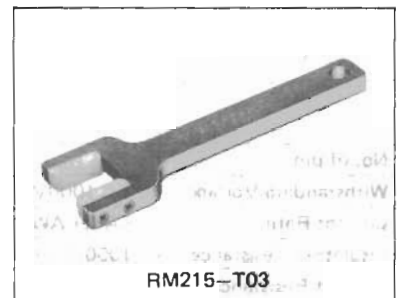
RM215TP-T01

(Jack Fastening Tool)



RM215TJ-T02

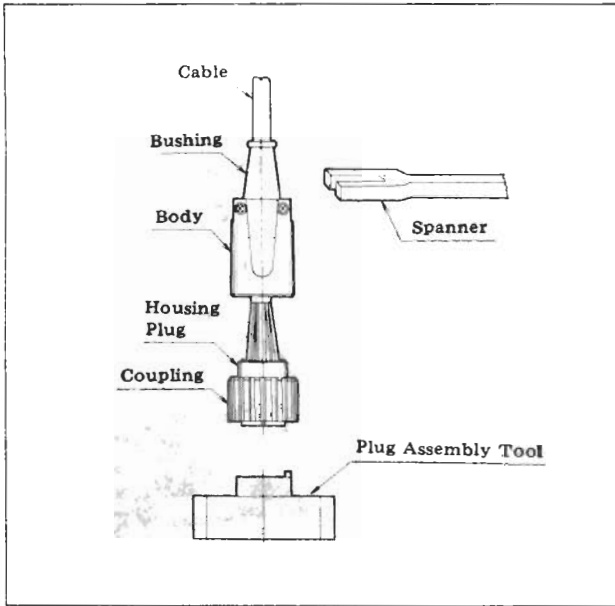
(Spanner)



RM215-T03

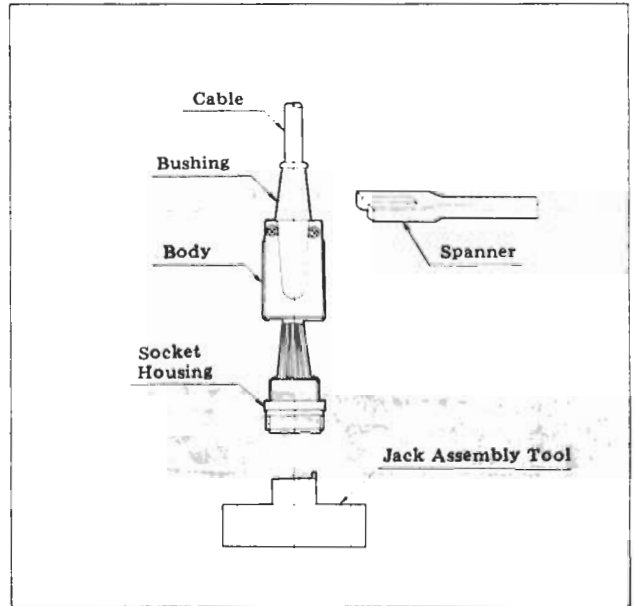
Assembling Procedure

○ Plug



1. Prepare the cable end for crimping and pass the cable through Bushing, and then crimp the Contacts to each wire.
2. Pass the crimped cable through Connector Body and Coupling. And each crimped contact is inserted to Plug Housing.
3. Fix the Plug Housing on the Assembly Tool (RM215TP-T01) and fasten Connector Body with Fastening Wrench (RM215-T03 or RM215A-T04). Recommendable fastenning torque is 20–40kg/cm.
4. Final step is to clamp the cable with screws. (about 2kg/cm)

○ Jack



1. Prepare the cable end for crimping and pass the cable through Bushing, and then crimp the Contacts to each wire.
2. Pass the crimped cable through Connector Body and then each crimped contact is inserted to Socket Housing.
3. Fix the Socket Housing on the Assembly Tool (RM215TJ-T02) and fasten Connector Body with Fastening Wrench (RM215-T03 or RM215A-T04). Recommendable fastenning torque is 20–40kg/cm.
4. Final step is to clamp the cable with screws. (about 2kg/cm force recommended)

Contact Arrangement

Contact Arrangement	
No. of pin	10
Withstanding Voltage	AC 1000V for a minute
Current Rating	5A (at AWG20 cable)
Insulation Resistance	1000MΩ (MIN. at DC 500V)
Contact Resistance	7mΩ (MAX. at DC 1A)
Applicable Cable	AWG#20~24 AWG#24~28

- Note 1. The contact arrangement shown on the left shows the mating surface of a Receptacle or a Jack.
2. The value of Voltage Withstanding is test voltage. The voltage rating in general use shall be lower than one third of the value.