no ouoct information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. Thon-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

RM215T·315T SERIES PLASTIC 10 PIN VIDEO CONNECTORS

Introduction

RM215T series and RM315T series are newly developed 10 pin circular connectors primerily 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.
- 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

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.

- 5. The simple and refined appearance with black matte finish offers a good appearance to any equipment.
- 6. A flange method receptacle is supplied with 45 degree rotated flange with tapping screws for two mounting positions to enhance space and labor saving.

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Material and Finish

Description	Material	Finish
Molding and insulator	Glass-filled polycarbonate (UL94V-0)	(Black)
Male pin	Phosphor bronze	Silver plated
Female pin	Phosphor bronze	Silver plated

Ordering Information



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Mounting Cutout

RM215TR Flange type



RM215TRE Hexagon Nut type

• Applicable Connector

HRS No.

109-2018-2

109-2015-4



Part No.

RM215TRE-10SC

RM215TRE-10SE

• Applicable Connector

HRS No.	Part No.
109-2004-8	RM215TR-10SC
109-2005-0	RM215TR-10SD
109-2006-3	RM215TR-10SB

- 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 6 mm and minimum 3 mm.

Contact



Туре	HRS No.	Part No.	В	С	Applicable wire
Loose	109-0668-7	RM-PC-112	1.6	2	AWG#20~#24
contact 109-	109-0672-4	RM-PC-122	1.45	1.5	AWG #24~#28
Chain contact	109-0670-9	RM_PC_212	1.6	2	AWG#20~#24
	109-0674-0	RM_PC_222	1.45	1.5	AWG#24~#28

Female pin



Туре	HRS No.	Part No.	В	С	Applicable wire
Loose	109-0669-0	RM-SC-112	1.6	2	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	AWG#20~#24
contact	109-0675-2	RM-SC-222	1.45	1.5	AWG#24~#28

Note: Loose-piece pins are available in pack. Each pack contains 100 pieces.

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

mm

mm

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Tools

Туре	HRS No.	Part No.	Applicable cable
Hand crimp tool	15000061	RM-TC-11	AWG#20~#24
	150-0007-4	RM-TC-12	AWG#24~#28
Auto crimp tool		CM-103	_
Extraction tool	150-0008-7	RM-TP	-







Auto Crimp Tool CM-103



Extraction Tool

Connector Assembly Tools (RM215T Type)

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

Туре	HRS No.	Part No.	Applicable connector
Plug fastening tool	150-0013-7	RM215TP-T01	109-2001-0 RM215TP-10PC 109-2002-2 RM215TPA-10PC
Jack fastening tool	150-0014-0	RM215TJ-T02	109-2010-0 RM215TJ-10SC 109-2011-3 RM215TJA-10SC
Spanner	150-0015-2	RM215-T03	109-2001-0 RM215TP-10PC 109-2010-0 RM215TJ-10SC
Spanner for short body	150-00165	RM215AT04	109-2002-2 RM215TPA-10PC 109-2011-3 RM215TJA-10SC



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Assembling Procedure



- 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.
- Fix the Plug Housing on the Assembly Tool (RM215TP-T01) and fasten Connector Body with Fastening Wrench (RM215-T03 or RM215A-T04). Recommendable fastening torque is 20-40 kg/cm.
- Final step is to clamp the cable with screws. (about 2kg/cm)



- 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 fastening torque is 20-40 kg/cm.
- 4. Final step is to clamp the cable with screws. (about 2kg/cm force recommended)

Contact Arrangement

Contact Arrangement	8 1 7 9 2 6 10 3 5 4
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(big Barrel) AWG #24~28(small Barrel)

- 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.