



RM-H Series

Metal Miniature Push Pull Self-locking Connector

- Secure high performance push pull self-locking system
- High pin density and light weight construction
- Alignment key and polarized keying system to avoid cross-interface
- 360° EMC shielded
- Robust and shock resistant designs
- Available solder, PCB contact

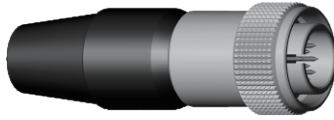


RM-H Series

Plugs



HR10A

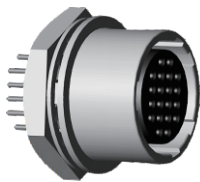


HR10A

Receptacles



HR10A



HR10A

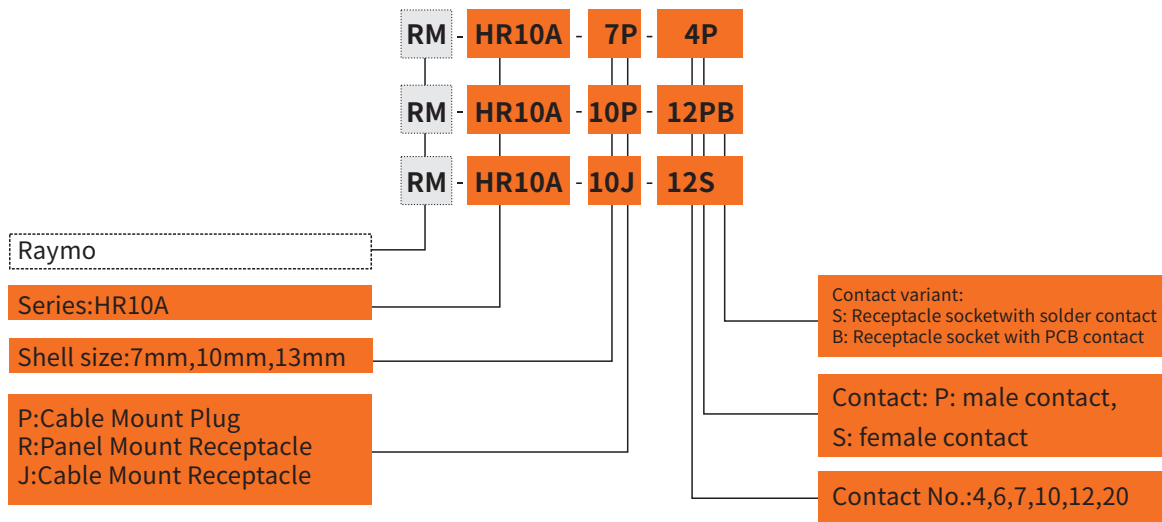


HR10A



HR10A

Part Numbering System



Part No. Example

Straight plug with cable collet

RM-HR10A-7P-6P Cable Mount plug, HR10A series, 7mm shell, multipole 6 contacts, male in solder type, brass-alloyed shell with nickel plated, PPS insulator, black colour bend relief for OD 4.2-5.0mm cable.

Fixed receptacle

RM-HR10A-10R-12PN Fixed receptacle, 10mm shell size, 12pin male contact in PCB type, outshell in nickel-plated brass, PPS insulator.

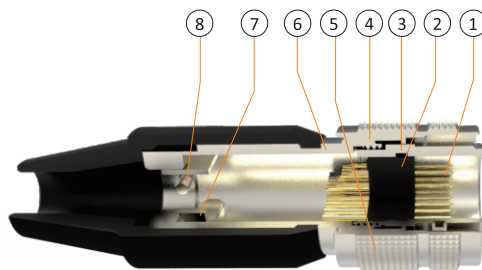
Free cable receptacle

RM-HR10A-10J-12S Free cable receptacle with cable collet, 10mm shell size, 12 female contact outshell in nickel-plated brass, PPS insulator, with a black colour bend relief.

Part Section Showing Internal Components

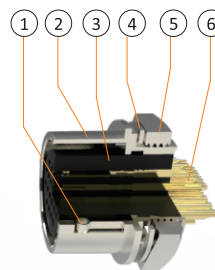
Straight Plug

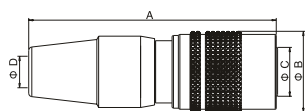
- ① Male contact
- ② Insulator
- ③ Inner shell
- ④ Snap Spring
- ⑤ Outer shell
- ⑥ Ground crown
- ⑦ Screw
- ⑧ U collet nut



Fixed Receptacle

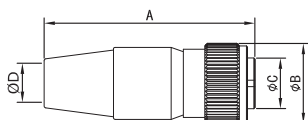
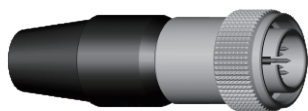
- ① Locking spring
- ② Outer shell
- ③ Insulator
- ④ Locking gasket
- ⑤ Hexagonal nut
- ⑥ Female contact





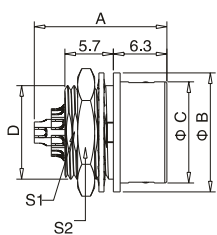
HR10A Cable mount plug

Reference		Dimensions(mm)			
Model	No.of pins	A	B	C	D
7mm	4,6	35	11.5	7.5	5
10mm	10,12	43	14.7	9	7
13mm	20	58.8	19	13	7



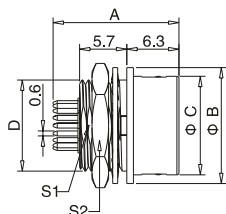
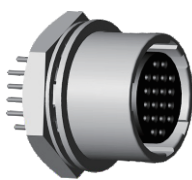
HR10A Cable mount plug

Reference		Dimensions(mm)			
Model	No.of pins	A	B	C	D
10mm	10,12	39.5	14.7	9.5	7



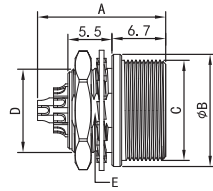
HR10A Panel mount receptacle

Reference		Dimensions(mm)				
Model	No.of pins	A	B	C	D	E
7mm	4,6	14	11	8.85	M11*0.75	10
10mm	10,12	16	14	11.9	M11*0.75	13
13mm	20	19.2	18	15.4	M8*0.5	17



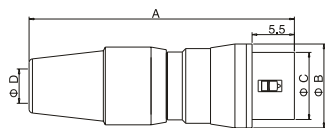
HR10A Panel mount receptacle, printed PCB contact

Reference		Dimensions(mm)				
Model	No.of pins	A	B	C	D	E
7mm	4,6	15.6	11	8.85	M8*0.5	10
10mm	10,12	15.6	14	11.9	M11*0.75	13
13mm	20	17.8	18	15.4	M14*0.5	17



HR10A Panel mount receptacle

Reference		Dimensions(mm)				
Model	No.of pins	A	B	C	D	E
10mm	10,12	16	14	M11*0.75	M11*0.75	9.6



HR10 Cable mount receptacle

Reference		Dimensions(mm)			
Model	No.of pins	A	B	C	D
7mm	4,6	35.3	11	8.85	10
10mm	10,12	43	14	11.9	13

Insulator Configuration

shell size	7 mm			10 mm	
Contact No. view					
Contact No.	4	5	6	10	12
Test Voltage	AC500V for a minute			AC300V for a minute	
Test Current	2A			2A	
Insulation Resistance	MIN 1,000MΦ			MIN 1,000MΦ	
Contact Resistance	MAX 10mΦ			MAX 10mΦ	
Solder cup OD	Φ0.8			Φ0.8	

shell size	13 mm
Contact No. view	
Contact No.	20
Test Voltage	AC300V for a minute
Test Current	2A
Insulation Resistance	MIN 1,000MΦ
Contact Resistance	MAX 10mΦ
Solder cup OD	Φ0.8

Note:

- 1: Above view is from socket front view.
- 2: Voltage is test voltage.
- 3: Insulator resistance is tested based on DC100V.
- 4: Contact resistance is tested based on DC100V.

Receptacle PCB type pinout

