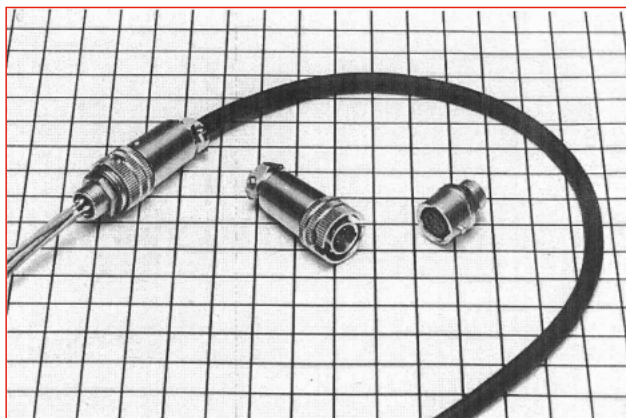


# High Performance Miniature Connectors

## HR11Series



### ■General

HR11 Series circular connectors have been developed for applications with compact sized electronic equipment. Small size and reliability are key features of the HR11. The applications include communications devices, instrumentation, broadcasting studios, and other electronic equipment.

HR11 connectors employ a bayonet sleeve locking method, which provides excellent mating and unmating operability - especially where connectors are mounted in high density. This miniature but sophisticated connector design is suitable for many types of applications, and is particularly good fit for small electronic devices.

### ■Features

1. A five-key mating guide helps to guide the connector into the specified position .
2. Contacts are located at safe positions to prevent the contact pins from being damaged when trying to fit the mating guide (fine keys) blindly.
3. Connector is easy to insert and extract due to the bayonet locking mechanism.
4. High density mounting is applicable by using hexagon headed nut tightening system to fix the receptacle to the panel.
5. Each model of the connectors is available in male and female, to suit all requirements.
6. Slim and streamlined design with satin finish sureface matches compact devices without spoiling the appearance.

### ■Materials

| Part            | Materials            | Finish                           |
|-----------------|----------------------|----------------------------------|
| Shell           | Zinc-alloy and brass | Nickel plated and satin-finished |
| Insulation      | Polyamide resin      | Black                            |
| Male terminal   | Brass                | Silver plated                    |
| Female terminal | Phosphor bronze      | Silver plated                    |

### ■Ordering information

**HR11 - 9 B P A - 6 P (01)**

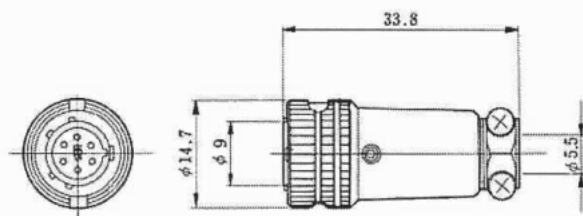
①      ②      ③      ④      ⑤      ⑥      ⑦      ⑧

|                                                                                   |                                                                                                    |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| ① Model name: HR11                                                                | ⑤ Shell variation: Variation of the same connector configuration is shown by A, B, C, D.....       |
| ② Shell size: The shell size is the outer diameter of the mating end of the plug. | ⑥ Number of Contacts                                                                               |
| ③ Type of lock mechanism: B: Bayonet Lock                                         | ⑦ Contact form<br>P: Male contact   S: Female contact                                              |
| ④ Shell type: P: Plug<br>R: Receptacle<br>J : Jack                                | ⑧ Other specifications: A two-digit character is added to indicate other specifications as needed. |

## ■ Plug



**HR11-9BP-6P(73)**

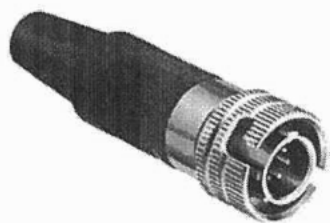


(Representative example)

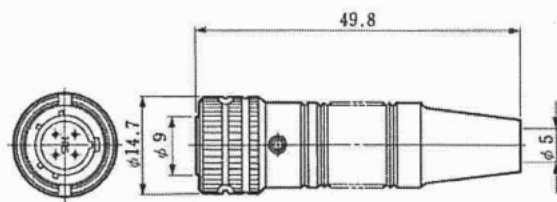
| HRS No.       | Part No.        | No. of Contacts | Weight |
|---------------|-----------------|-----------------|--------|
| 111-0012-1 73 | HR11-9BP-4P(73) | 4               | 20gr   |
| 111-0013-4 73 | HR11-9BP-4S(73) | 4               | 20gr   |
| 111-0001-5 73 | HR11-9BP-6P(73) | 6               | 20gr   |
| 111-0003-0 73 | HR11-9BP-6S(73) | 6               | 20gr   |

Remark: Fasten a screw by using a torque wrench at 0.3 to 0.4N·m.

## ■ Plug (with Rubber boot)



**HR11-9BPB-6P(73)**



(Representative example)

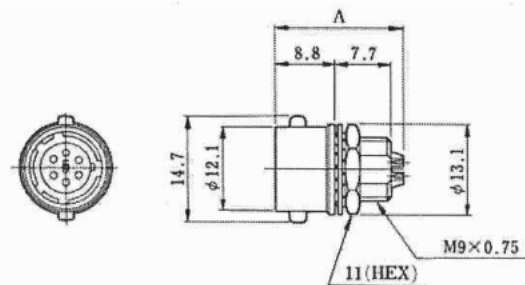
| HRS No.       | Part No.         | No. of Contacts | Weight |
|---------------|------------------|-----------------|--------|
| 111-0101-0 73 | HR11-9BPB-4P(73) | 4               | 18gr   |
| 111-0102-2 73 | HR11-9BPB-4S(73) | 4               | 18gr   |
| 111-0109-1 73 | HR11-9BPB-6P(73) | 6               | 18gr   |
| 111-0110-0 73 | HR11-9BPB-6S(73) | 6               | 18gr   |

Remark: Fasten a screw by using a torque wrench at 0.3 to 0.4N·m.

## ■ Receptacle



**HR11-9BR-6S(73)**

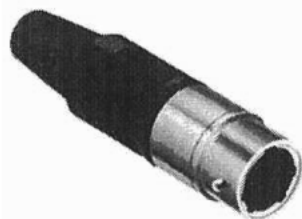


(Representative example)

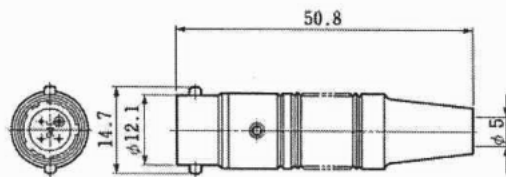
| HRS No.       | Part No.        | No. of Contacts | Weight | A    |
|---------------|-----------------|-----------------|--------|------|
| 111-0103-5 73 | HR11-9BR-4P(73) | 4               | 5gr    | 18   |
| 111-0104-8 73 | HR11-9BR-4S(73) | 4               | 5gr    | 18.3 |
| 111-0004-3 73 | HR11-9BR-6P(73) | 6               | 6gr    | 18   |
| 111-0002-8 73 | HR11-9BR-6S(73) | 6               | 6gr    | 18.3 |

Remark: Fasten a screw by using a torque wrench at 0.3 to 0.4N·m.

## ■ Jack (with Rubber boot)



**HR11-9BJB-6S(73)**



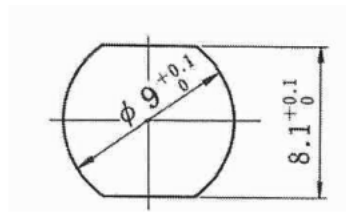
(Representative example)

| HRS No.       | Part No.         | No. of Contacts | Weight |
|---------------|------------------|-----------------|--------|
| 111-0106-3 73 | HR11-9BJB-4S(73) | 4               | 17gr   |
| 111-0108-9 73 | HR11-9BJB-6P(73) | 6               | 17gr   |
| 111-0107-6 73 | HR11-9BJB-6S(73) | 6               | 17gr   |

Remark: Fasten a screw by using a torque wrench at 0.3 to 0.4N·m.

## ◆ Mounting Cutout

- Applicable panel thickness: 1 to 3.5mm
- Mounting Method: Fastening a Hexagon Nut



## ◆ Tools

Clamping Tool (For use with Rubber boot type)



Use for applicable dia.  $\phi 5\text{mm}$ .

| HRS No.    | Part No.    | Remarks                 |
|------------|-------------|-------------------------|
| 150-0041-2 | HR10A-TC-02 | Use tool indication 5.3 |

## ◆ Contact arrangement

| No. of Contacts       | 4                                 | 6 |
|-----------------------|-----------------------------------|---|
| Contact Arrangement   |                                   |   |
| Withstanding Voltage  | AC300V for a minute               |   |
| Current Rating        | 2A                                |   |
| Insulation Resistance | MIN. 200M $\Omega$ at DC100V      |   |
| Contact Resistance    | MAX. 10m $\Omega$ at DC1A         |   |
| Solder Pot Diameter   | $\phi 0.8\text{mm}$               |   |
| Applicable Cable Dia. | $\phi 4.5$ to $\phi 5.5\text{mm}$ |   |

Notes:

- The Contact Arrangement shown here is the mating surface of socket insert assembled in a receptacle.  
The contact number is shown 1 and 6 on the wiring side.
- The Withstanding Voltage is the test value.

## ◆ Precautions

- Switch off the power of the circuit before disconnecting or plugging-in the connector.
- Use a connector with socket contacts at the power side of the circuit.
- Make sure that the coupling is in completely locked position.
- Cable clamping, cable rotation, and other forces may vary with the cable construction. Please make sure that your cable is suitable for use with these connectors before usage and production.

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