HRS HR10 Series
Push-Pull Connectors with 7mm shell size

■ General

The HR10 series connectors are push-pull coupling type micro-connectors. They have been developed in response to customer's needs for miniaturization, high density, and easy handling. the HR10 series connectors offer light weight and assure high reliability and durability as well as easy "push-pull" operation. You may apply the HR10 connectors to all kinds of small electronic equipment requiring high reliability. These simple but refined connectors are most suitable for portable electronic equipment which require a clean appearance. Typical applications include computers and peripherals, medical equipment, audio and video equipment, and measuring equipment.
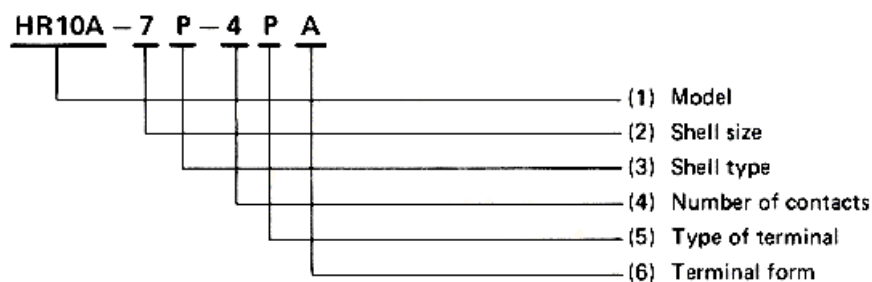
■ Features

1. A "little giant" The most compact HR10 series is as slender as pencil, but it fits every application with well balanced, simplified layout in limited spaces.
2. one touch " push-pull" coupling mechanism assures easy and quick connecting and disconnecting. It can be coupled by pushing any part of the connector housing
3. Polarization by a five key system permits only one way of coupling. The correct position can be found even when blind mating.
4. A connector pin is located to avoid any damage which may be caused when blind mating

Materials

Item	material	Finish
Shell	Zinc alloy and brass	Satin finished nickel plate
Insulation	Polyamide resin or PBT resin	Blue or black
Male terminal	Brass or bronze	Silver or gold plated
Female terminal	Beryllium or Phosphor bronze	Silver or gold plated

Part description

HR10 part description

HR10A — 7 P — 4 P A

- (1) Model
- (2) Shell size
- (3) Shell type
- (4) Number of contacts
- (5) Type of terminal
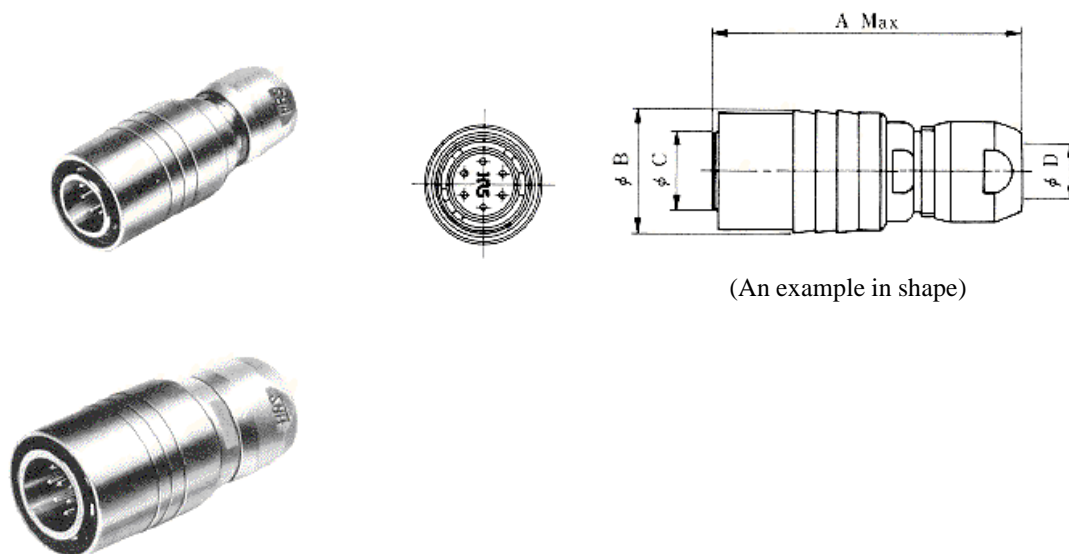- (6) Terminal form

(1) Model: Denotes HR10 series as follows:
     HR10A: Low-cost model
     HR10G: Shielded
     HR10E: Built-in capacitor
     HR10B: Coaxial terminal
     HR10D: Connector sleeve rotation inhibited

(2) Shell size: Plug mating part outside diameter in mm.

(3) Shell type: Indicates the type of shell as follows:
     P: Plug   R: Receptacle   J: Jack

(4) Number of contacts: Indicates the number of contacts.

(5) Type of terminal: Indicates the type of terminal as follows:
     P: Male terminal   S: Female terminal

(6) Terminal form: Indicates terminal connection system in terminal form in alphabetic characters.
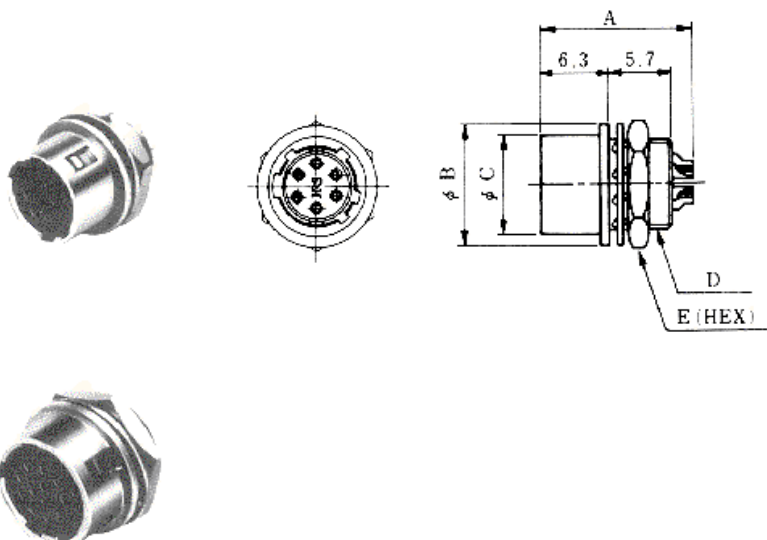   C: Crimp connection system

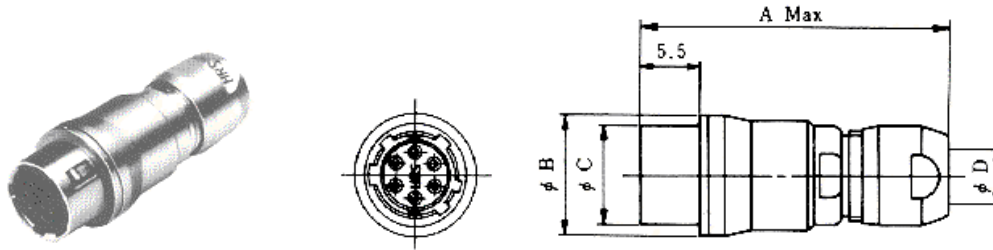**Plugs** | **Receptacles: PCB dip type, Crimp type | Jacks**

HR10 Plug

Gold plating is the standard for the HR10 connector terminals, and silver plating is used for the terminals of other types of connectors. When using HR10 connectors in combination with types of connectors, be sure to check the plating specification.

(An example in shape)

Product code	Product order number	No. of pins	A	Diameter of B	Diameter of C	D	Weight
110-0021-6	HR10-7P-4P	4	28.5	11	7	5.2	8g
110-0022-9	HR10-7P-4S	4	28.5	11	7	5.2	8g
110-0023-1	HR10-7P-6P	6	28.5	11	7	5.2	8g
110-0024-4	HR10-7P-6S	6	28.5	11	7	5.2	8g
110-0025-7	HR10-10P-12P	12	32.5	14	9.5	7.2	15g
110-0026-0	HR10-10P-12S	12	32.5	14	9.5	7.2	15g

HR10 Series

HR10 Receptacles

Product code	Product order number	No. of pins	A	Diameter of B	Diameter of C	D	E	Weight
110-0031-0	HR10-7R-4S	4	14	11	8.85	M8 x 0.5	10	3.5g
110-0032-2	HR10-7R-4P	4	14	11	8.85	M8 x 0.5	10	3.5g
110-0033-5	HR10-7R-6S	6	14	11	8.85	M8 x 0.5	10	3.5g
110-0034-8	HR10-7R-6P	6	14	11	8.85	M8 x 0.5	10	3.5g
110-0035-0	HR10-10R-12S	12	16	14	11.9	M11 x 0.75	13	6g
110-0036-3	HR10-10R-12P	12	16	14	11.9	M11 x 0.75	13	6g

HR10 Series

HR10 Jack

Product code	Product order number	No. of pins	A	Diameter of B	Diameter of C	D	Weight
110-0027-2	HR10-7J-4A	4	28.5	11	8.85	5.2	7g
110-0028-5	HR10-7J-4P	4	28.5	11	8.85	5.2	7g
110-0029-8	HR10-7J-6S	6	28.5	11	8.85	5.2	7g
110-0030-7	HR10-10J-6P	6	28.5	11	8.85	5.2	7g
110-0037-6	HR10-10J-12S	12	32.5	14	11.9	7.2	14g
110-0038-9	HR10-10J-12P	12	32.5	14	11.9	7.2	14g