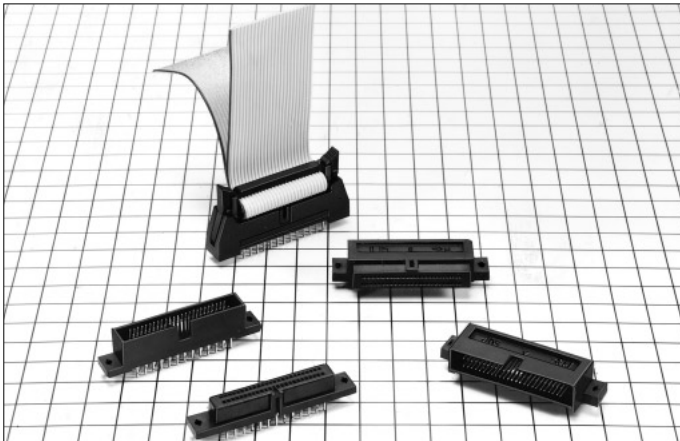


# 1.27mm Pitch Two-Piece Connector

## HIF6 Series



### ■Features

#### 1. Product Variation

The connection method is available with the board to board type and insulation displacement type.

#### 2. Broad applications

HIF2E, HIF3B and HIF5 can be combined one other, because the 1.27mm pitch flat cable is used.

#### 3. Applicable Cables

The applicable cable is a (UL2651) AWG #28 flat cable (7cores: 0.127mm, outer jacket diameter: 0.8 to1.0mm)

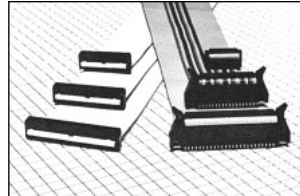
#### 4. Mis-insertion Preventive Structure

The mis-insertion preventive guide prevents mis-insertion.

Connector in combination with the HIF6 series connection type

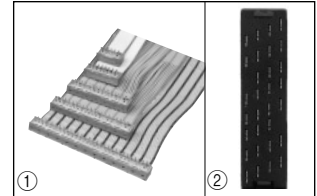
#### ●HIF3B Series

(MIL-C-83503)



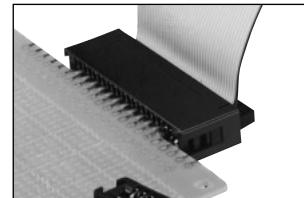
#### ●HIF2 Series

(Board direct mount type)



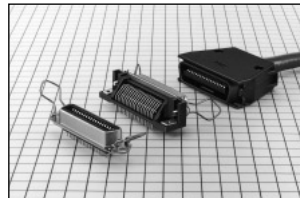
#### ●HIF5 Series

(Card edge type)



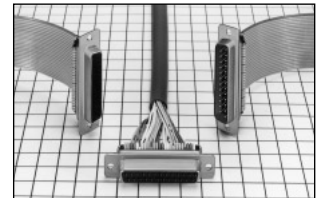
#### ●RC Series

(Micro ribbon connector)



#### ●FD Series

(D sub-ribbon connector)



Photo① (For further information, refer to catalog page A133.)

### ■Applications

Computers, peripheral and terminal equipment, PPC, various kinds of electronic equipment, Office Automation machines

### ■Product Specifications

| Rating | Current rating: 0.5A<br>Voltage rating: 125V AC | Operating Temperature Range: -55 to +85 °C (Note 1)<br>Operating Humidity Range: 40 to 80% | Storage Temperature Range: -10 to +60°C (Note 2)<br>Operating Humidity Range: 40 to 70% (Note 2) |
|--------|-------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|--------|-------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|

| Item                            | Specification                                       | Condition                                                                                            |
|---------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1.Insulation Resistance         | 1000M ohms min.                                     | 250V DC                                                                                              |
| 2.Withstanding Voltage          | No flashover or insulation breakdown.               | 300V AC/1 minute.                                                                                    |
| 3.Contact Resistance            | 30m ohms max.                                       | 0.1A                                                                                                 |
| 4.Vibration                     | No electrical discontinuity of 1μs or more          | Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 directions.            |
| 5.Humidity (Steady state)       | Insulation resistance: 1000M ohms min.              | 96 hours at temperature of 40°C and humidity of 90% to 95%                                           |
| 6.Temperature Cycle             | No damage, cracks, or parts looseness.              | (-65°C: 30 minutes→15 to 35°C: 5 minutes max.→125°C: 30 minutes→15 to 35°C: 5 minutes max.) 5 cycles |
| 7.Durability (Mating/un-mating) | Contact resistance: 30m ohms max.                   | 500 cycles                                                                                           |
| 8.Resistance to Soldering heat  | No deformation of components affecting performance. | Flow: 260°C for 10 seconds<br>Manual soldering: 300°C for 3 seconds                                  |

Note 1: Includes temperature rise caused by current flow.

Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non conducting condition of installed connectors in storage, shipment or during transportation.

■Material

| Parts              | Material     | Finish                 | Remarks |
|--------------------|--------------|------------------------|---------|
| Insulator          | PBT          | Black                  | UL94V-0 |
| Socket Contact     | Copper alloy | Selective gold plating | _____   |
| Pin header Contact | Brass        |                        |         |

■Ordering Information

●Socket and Receptacle

HIF6    A - \* D A - 1.27 DSA L  
①        ②        ③        ④        ⑤        ⑥        ⑦        ⑧

|                      |                                               |
|----------------------|-----------------------------------------------|
| ① Series Name        | : HIF6                                        |
| ② Blank              | : Ribbon cable insulation displacement type   |
| A                    | : With board mounting hole                    |
| B                    | : Without board mounting hole                 |
| ③ Number of contacts | : 20, 26, 32, 34, 40, 50, 52, 60, 68, 80, 100 |
| ④ D                  | : Socket or receptacle                        |
| ⑤ A                  | : Selective gold plated                       |
| ⑥ Contact pitch      | : 1.27mm                                      |
| ⑦ Contact type       | : DS : Right angle type                       |
|                      | DSA : Straight type                           |
|                      | R : Ribbon cable ID type                      |
| ⑧ L                  | : Board pre-fixed lock pin                    |

●Pin Header

HIF6    A - \* P A - 1.27 DSA L  
①        ②        ③        ④        ⑤        ⑥        ⑦        ⑧

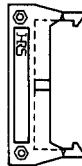
|                      |                                               |
|----------------------|-----------------------------------------------|
| ① Series Name        | : HIF6                                        |
| ② Blank              | : With lock                                   |
| A                    | : With board mounting hole                    |
| B                    | : Without board mounting hole                 |
| ③ Number of contacts | : 20, 26, 32, 34, 40, 50, 52, 60, 68, 80, 100 |
| ④ P                  | : Pin header                                  |
| ⑤ A                  | : Selective gold plated                       |
| ⑥ Contact pitch      | : 1.27mm                                      |
| ⑦ Contact style      | : DS : Right angle type                       |
|                      | DSA : Straight type                           |
| ⑧ L                  | : Board pre-fixed lock pin                    |

# ◆Function Chart

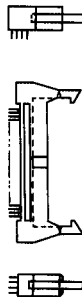
## Pin Header

## Socket or Receptacle Side

Right Angle  
Type with lock



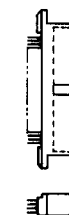
Straight Type  
with lock



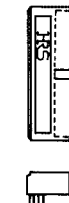
Right Angle  
Type with  
mounting hole



Straight Type  
with mounting  
hole



Right Angle  
Type without  
mounting hole



Straight Type  
without  
mounting hole



Two pieces of 1.27mm  
pitch cable used

➡2.54 pitch connector  
(MIL-C-83503)

HIF2B series  
HIF3B series  
HIF5 series  
Ribbon cable FD  
(D sub) connector  
Ribbon cable RC30  
(Micro ribbon) connector

Right Angle  
Type with  
mounting hole



Straight Type  
with mounting  
hole



Right Angle  
Type without  
mounting hole



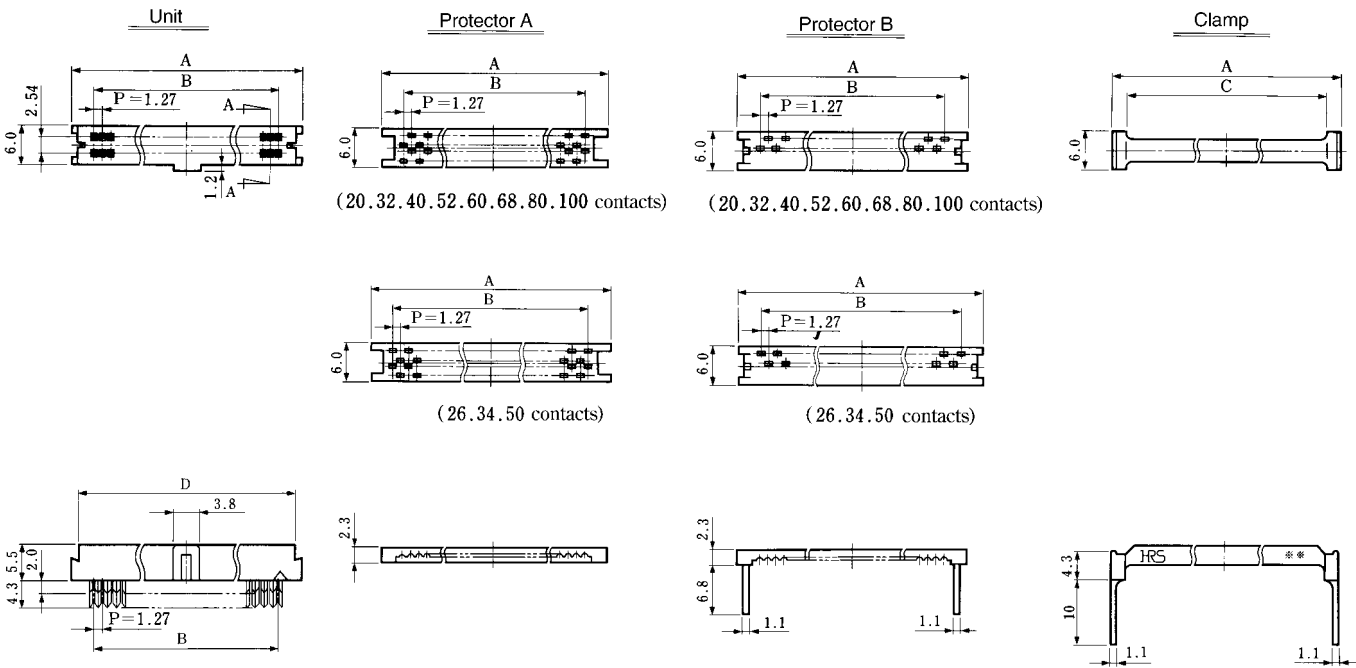
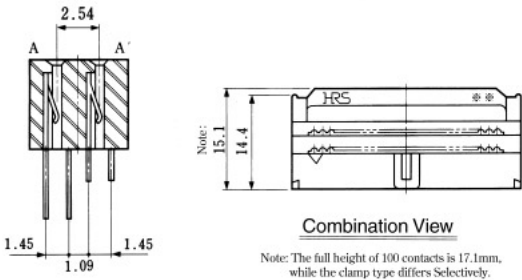
Straight Type  
without  
mounting hole



# Cable ID Connector



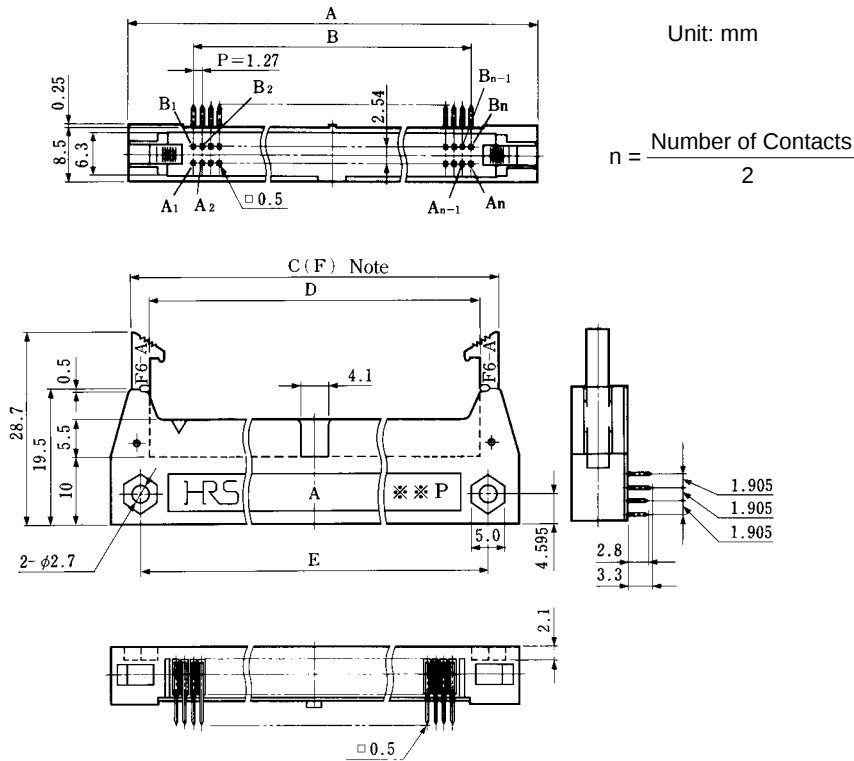
Unit: mm



Unit: mm

| Part Number     | CL No.     | Number of Contacts | A     | B     | C     | D     |
|-----------------|------------|--------------------|-------|-------|-------|-------|
| HIF6- 20D-1.27R | 630-0001-4 | 20                 | 18.55 | 11.43 | 13.95 | 16.35 |
| HIF6- 26D-1.27R | 630-0002-7 | 26                 | 22.36 | 15.24 | 17.76 | 20.16 |
| HIF6- 32D-1.27R | 630-0003-0 | 32                 | 26.17 | 19.05 | 21.57 | 23.97 |
| HIF6- 34D-1.27R | 630-0004-2 | 34                 | 27.44 | 20.32 | 22.84 | 25.24 |
| HIF6- 40D-1.27R | 630-0005-5 | 40                 | 31.25 | 24.13 | 26.65 | 29.05 |
| HIF6- 50D-1.27R | 630-0006-8 | 50                 | 37.60 | 30.48 | 33.00 | 35.40 |
| HIF6- 52D-1.27R | 630-0007-0 | 52                 | 38.87 | 31.75 | 34.27 | 36.67 |
| HIF6- 60D-1.27R | 630-0008-3 | 60                 | 43.95 | 36.83 | 39.35 | 41.75 |
| HIF6- 68D-1.27R | 630-0009-6 | 68                 | 49.03 | 41.91 | 44.43 | 46.83 |
| HIF6- 80D-1.27R | 630-0010-5 | 80                 | 56.65 | 49.53 | 52.05 | 54.45 |
| HIF6-100D-1.27R | 630-0011-8 | 100                | 69.35 | 62.23 | 64.75 | 67.15 |

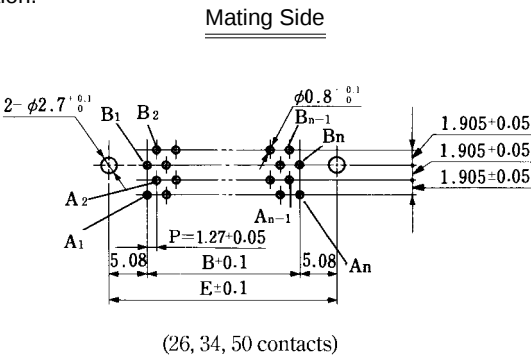
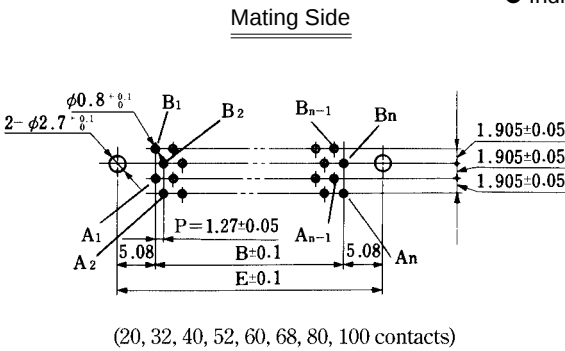
■Pin Header Right Angle Type with lock



Note : Size F indicates the state where the lock is open.

◆PCB mounting pattern

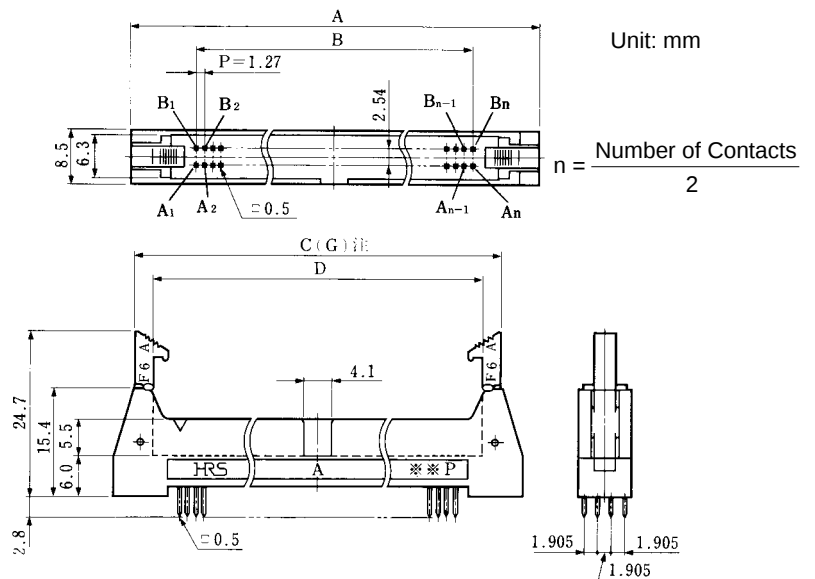
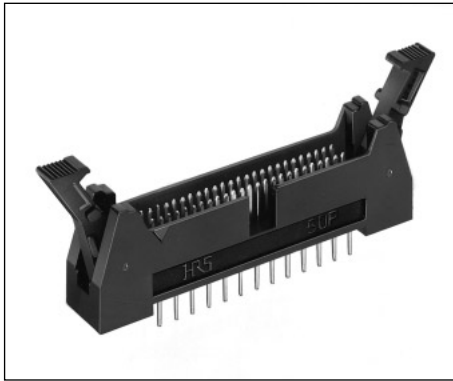
● Indicate mark position.



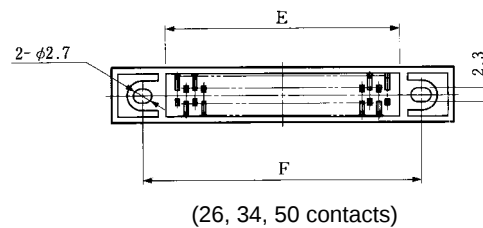
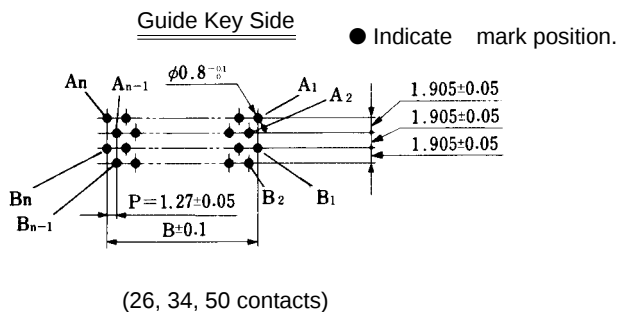
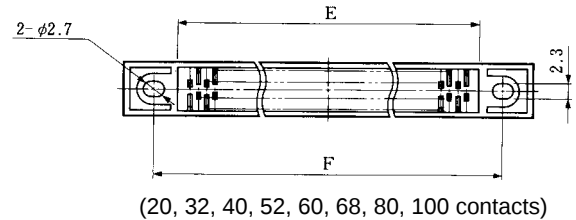
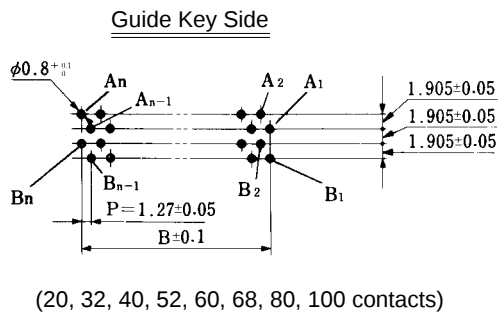
Unit: mm

| Part Number       | CL No.     | Number of Contacts | A     | B     | C     | D     | E     | F     |
|-------------------|------------|--------------------|-------|-------|-------|-------|-------|-------|
| HIF6- 20PA-1.27DS | 630-0051-2 | 20                 | 30.95 | 11.43 | 24.55 | 18.75 | 21.59 | 43.55 |
| HIF6- 26PA-1.27DS | 630-0052-5 | 26                 | 34.76 | 15.24 | 28.36 | 22.56 | 25.40 | 47.36 |
| HIF6- 32PA-1.27DS | 630-0053-8 | 32                 | 38.57 | 19.05 | 32.17 | 26.37 | 29.21 | 51.17 |
| HIF6- 34PA-1.27DS | 630-0054-0 | 34                 | 39.84 | 20.32 | 33.44 | 27.64 | 30.48 | 52.44 |
| HIF6- 40PA-1.27DS | 630-0055-3 | 40                 | 43.65 | 24.13 | 37.25 | 31.45 | 34.29 | 56.25 |
| HIF6- 50PA-1.27DS | 630-0056-6 | 50                 | 50.00 | 30.48 | 43.60 | 37.80 | 40.64 | 62.60 |
| HIF6- 52PA-1.27DS | 630-0057-9 | 52                 | 51.27 | 31.75 | 44.87 | 39.07 | 41.91 | 63.87 |
| HIF6- 60PA-1.27DS | 630-0058-1 | 60                 | 56.35 | 36.83 | 49.95 | 44.15 | 46.99 | 68.95 |
| HIF6- 68PA-1.27DS | 630-0059-4 | 68                 | 61.43 | 41.91 | 55.03 | 49.23 | 52.07 | 74.03 |
| HIF6- 80PA-1.27DS | 630-0060-3 | 80                 | 69.05 | 49.53 | 62.65 | 56.85 | 59.69 | 81.65 |
| HIF6-100PA-1.27DS | 630-0061-6 | 100                | 81.75 | 62.23 | 75.35 | 69.55 | 72.39 | 94.35 |

## ■Pin Header Straight Type with lock



## ◆PCB mounting pattern

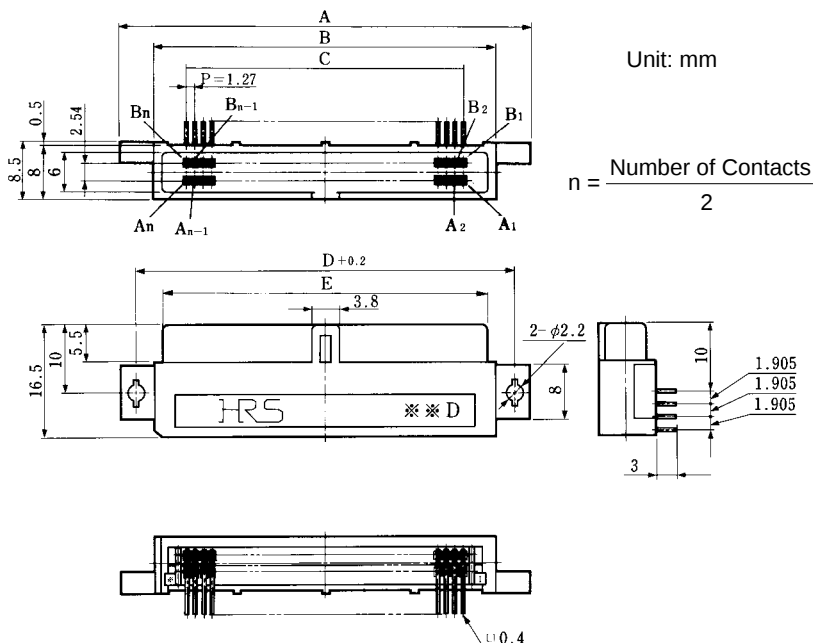
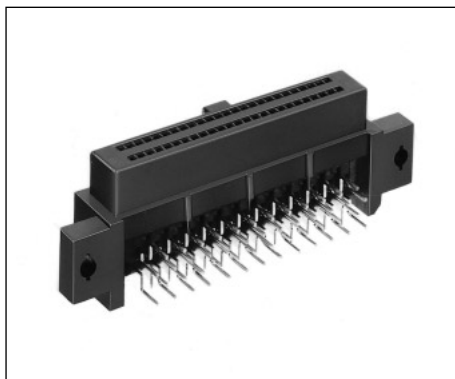


Note : Size F indicates a state where the lock is open.

Unit: mm

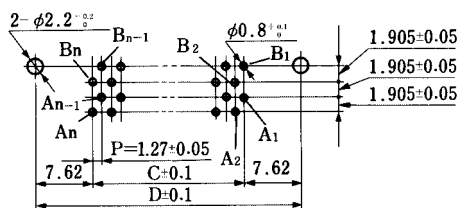
| Part Number        | CL No.     | Number of Contacts | A     | B     | C     | D     | E     | F     | G     |
|--------------------|------------|--------------------|-------|-------|-------|-------|-------|-------|-------|
| HIF6- 20PA-1.27DSA | 630-0101-9 | 20                 | 30.95 | 11.43 | 24.55 | 18.75 | 14.95 | 21.59 | 43.55 |
| HIF6- 26PA-1.27DSA | 630-0102-1 | 26                 | 34.76 | 15.24 | 28.36 | 22.56 | 18.76 | 25.40 | 47.36 |
| HIF6- 32PA-1.27DSA | 630-0103-4 | 32                 | 38.57 | 19.05 | 32.17 | 26.37 | 22.57 | 29.21 | 51.17 |
| HIF6- 34PA-1.27DSA | 630-0104-7 | 34                 | 39.84 | 20.32 | 33.44 | 27.64 | 23.84 | 30.48 | 52.44 |
| HIF6- 40PA-1.27DSA | 630-0105-0 | 40                 | 43.65 | 24.13 | 37.25 | 31.45 | 27.65 | 34.29 | 56.25 |
| HIF6- 50PA-1.27DSA | 630-0106-2 | 50                 | 50.00 | 30.48 | 43.60 | 37.80 | 34.00 | 40.64 | 62.60 |
| HIF6- 52PA-1.27DSA | 630-0107-5 | 52                 | 51.27 | 31.75 | 44.87 | 39.07 | 35.27 | 41.91 | 63.87 |
| HIF6- 60PA-1.27DSA | 630-0108-8 | 60                 | 56.35 | 36.83 | 49.95 | 44.15 | 40.35 | 46.99 | 68.95 |
| HIF6- 68PA-1.27DSA | 630-0109-0 | 68                 | 61.43 | 41.91 | 55.03 | 49.23 | 45.43 | 52.07 | 74.03 |
| HIF6- 80PA-1.27DSA | 630-0110-0 | 80                 | 69.05 | 49.53 | 62.65 | 56.85 | 53.05 | 59.69 | 81.65 |
| HIF6-100PA-1.27DSA | 630-0111-2 | 100                | 81.75 | 62.23 | 75.35 | 69.55 | 65.75 | 72.39 | 94.35 |

## ■Receptacle Right Angle Type with Mounting hole



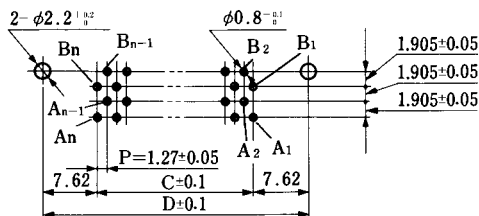
## ◆PCB mounting pattern

Mating Side



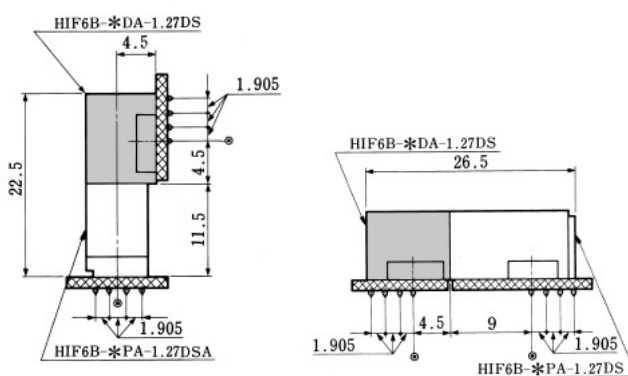
(20, 32, 40, 52, 60, 68, 80 contacts)

Mating Side



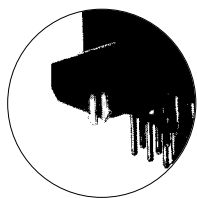
(26, 34, 50 contacts)

## ◆Application Pattern



◎ Mounting hole center line

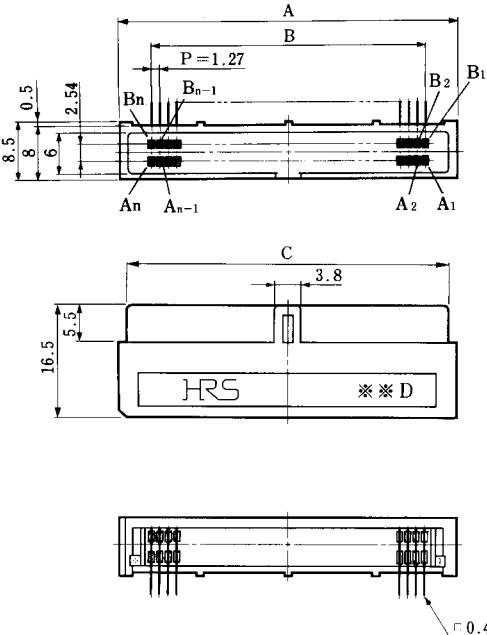
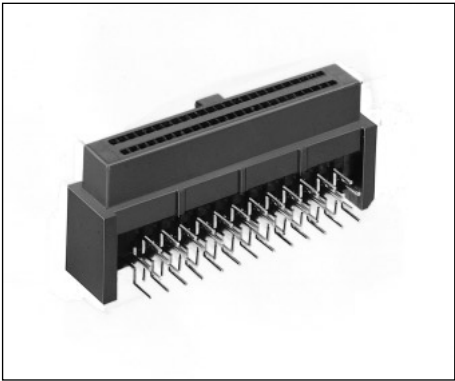
Unit: mm



\*Lock pin type is also available.

| Part Number       | CL No.     | Number of Contacts | A     | B     | C     | D     | E     |
|-------------------|------------|--------------------|-------|-------|-------|-------|-------|
| HIF6B-20DA-1.27DS | 631-0051-9 | 20                 | 30.95 | 20.95 | 11.43 | 26.67 | 18.55 |
| HIF6B-26DA-1.27DS | 631-0052-1 | 26                 | 34.76 | 24.76 | 15.24 | 30.48 | 22.36 |
| HIF6B-32DA-1.27DS | 631-0053-4 | 32                 | 38.57 | 28.57 | 19.05 | 34.29 | 26.17 |
| HIF6B-34DA-1.27DS | 631-0054-7 | 34                 | 39.84 | 29.84 | 20.32 | 35.56 | 27.44 |
| HIF6B-40DA-1.27DS | 631-0055-0 | 40                 | 43.65 | 33.65 | 24.13 | 39.37 | 31.25 |
| HIF6B-50DA-1.27DS | 631-0056-2 | 50                 | 50.00 | 40.00 | 30.48 | 45.72 | 37.60 |
| HIF6B-52DA-1.27DS | 631-0057-5 | 52                 | 51.27 | 41.27 | 31.75 | 46.99 | 38.87 |
| HIF6B-60DA-1.27DS | 631-0058-8 | 60                 | 56.35 | 46.35 | 36.83 | 52.07 | 43.95 |
| HIF6B-68DA-1.27DS | 631-0059-0 | 68                 | 61.43 | 51.43 | 41.91 | 57.15 | 49.03 |
| HIF6B-80DA-1.27DS | 631-0060-0 | 80                 | 69.05 | 59.05 | 49.53 | 64.77 | 56.65 |

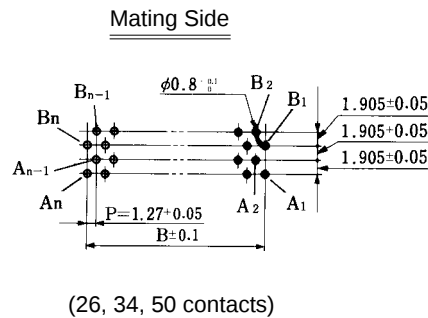
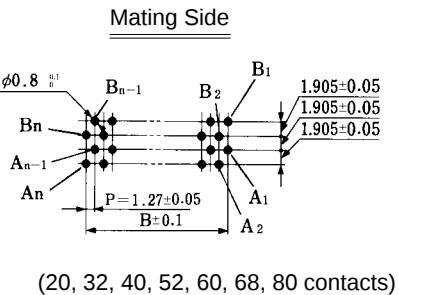
■Receptacle Right Angle Type Without Mounting hole



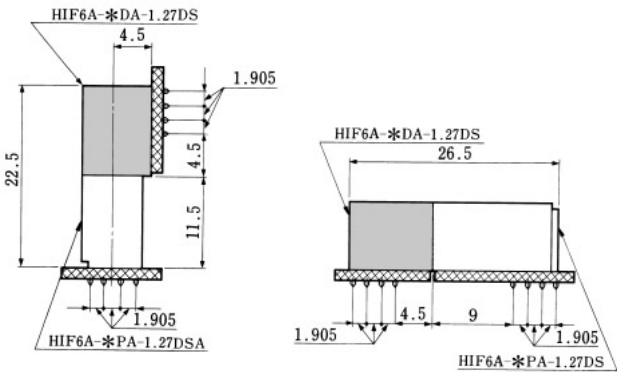
Unit: mm

$$n = \frac{\text{Number of Contacts}}{2}$$

◆PCB mounting pattern



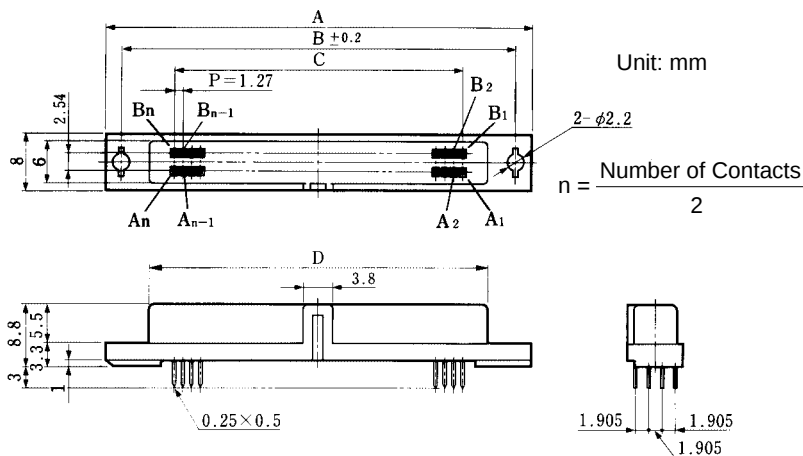
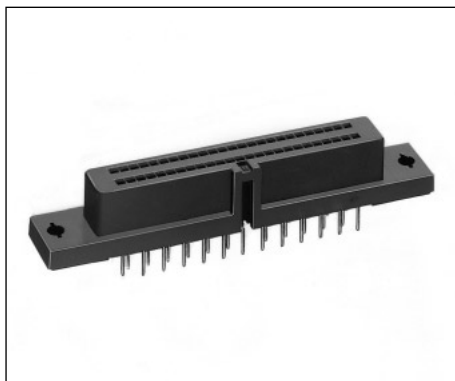
◆Application Pattern



Unit: mm

| Part Number       | CL No.     | Number of Contacts | A     | B     | C     |
|-------------------|------------|--------------------|-------|-------|-------|
| HIF6A-20DA-1.27DS | 631-0001-0 | 20                 | 20.95 | 11.43 | 18.55 |
| HIF6A-26DA-1.27DS | 631-0002-3 | 26                 | 24.76 | 15.24 | 22.36 |
| HIF6A-32DA-1.27DS | 631-0003-6 | 32                 | 28.57 | 19.05 | 26.17 |
| HIF6A-34DA-1.27DS | 631-0004-9 | 34                 | 29.84 | 20.32 | 27.44 |
| HIF6A-40DA-1.27DS | 631-0005-1 | 40                 | 33.65 | 24.13 | 31.25 |
| HIF6A-50DA-1.27DS | 631-0006-4 | 50                 | 40.00 | 30.48 | 37.60 |
| HIF6A-52DA-1.27DS | 631-0007-7 | 52                 | 41.27 | 31.75 | 38.87 |
| HIF6A-60DA-1.27DS | 631-0008-0 | 60                 | 46.35 | 36.83 | 43.95 |
| HIF6A-68DA-1.27DS | 631-0009-2 | 68                 | 51.43 | 41.91 | 49.03 |
| HIF6A-80DA-1.27DS | 631-0010-1 | 80                 | 59.05 | 49.53 | 56.65 |

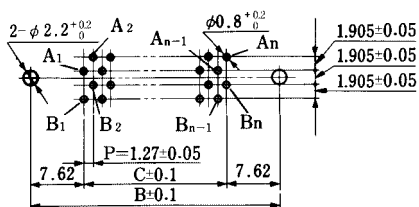
## ■Receptacle Straight Type with Mounting hole



(20, 32, 40, 52, 60, 68, 80, 100 contacts)

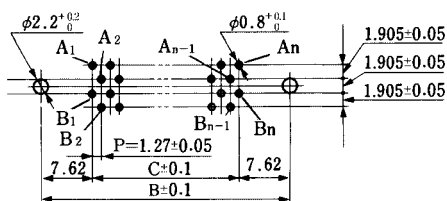
## ◆PCB mounting pattern

Guide Key Side



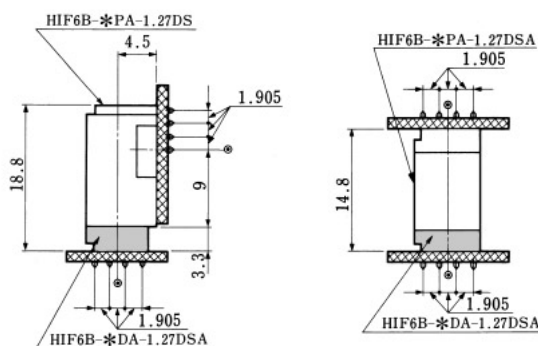
(20, 32, 40, 52, 60, 68, 80, 100 contacts)

Guide Key Side



(26, 34, 50 contacts)

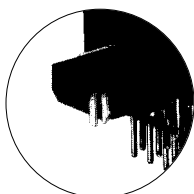
## ◆Application Pattern



○ Mounting hole center line

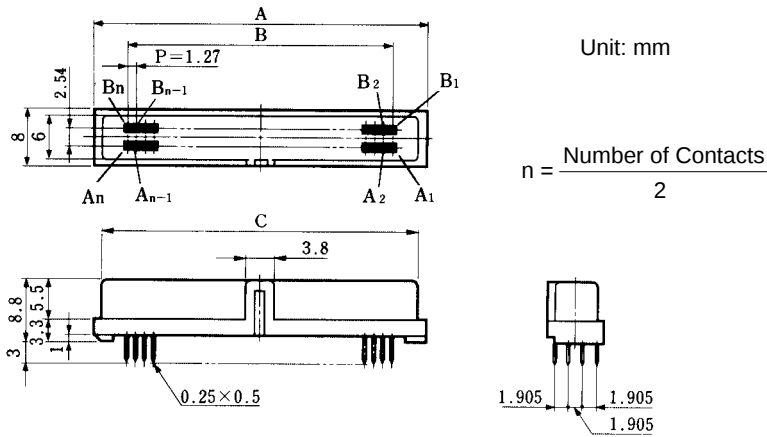
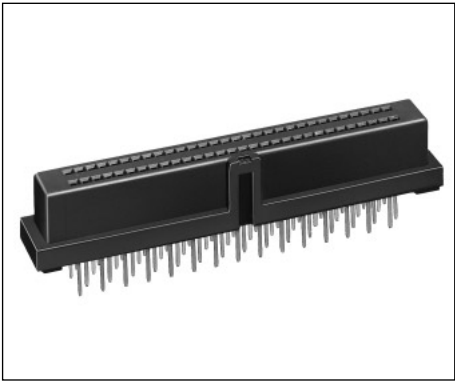
Unit: mm

| Part Number         | CL No.     | Number of Contacts | A     | B     | C     | D     |
|---------------------|------------|--------------------|-------|-------|-------|-------|
| HIF6B- 20DA-1.27DSA | 631-0151-3 | 20                 | 30.95 | 26.67 | 11.43 | 18.55 |
| HIF6B- 26DA-1.27DSA | 631-0152-6 | 26                 | 34.76 | 30.48 | 15.24 | 22.36 |
| HIF6B- 32DA-1.27DSA | 631-0153-9 | 32                 | 38.57 | 34.29 | 19.05 | 26.17 |
| HIF6B- 34DA-1.27DSA | 631-0154-1 | 34                 | 39.84 | 35.56 | 20.32 | 27.44 |
| HIF6B- 40DA-1.27DSA | 631-0155-4 | 40                 | 43.65 | 39.37 | 24.13 | 31.25 |
| HIF6B- 50DA-1.27DSA | 631-0156-7 | 50                 | 50.00 | 45.72 | 30.48 | 37.60 |
| HIF6B- 52DA-1.27DSA | 631-0157-0 | 52                 | 51.27 | 46.99 | 31.75 | 38.87 |
| HIF6B- 60DA-1.27DSA | 631-0158-2 | 60                 | 56.35 | 52.07 | 36.83 | 43.95 |
| HIF6B- 68DA-1.27DSA | 631-0159-5 | 68                 | 61.43 | 57.15 | 41.91 | 49.03 |
| HIF6B- 80DA-1.27DSA | 631-0160-4 | 80                 | 69.05 | 64.77 | 49.53 | 56.65 |
| HIF6B-100DA-1.27DSA | 631-0161-7 | 100                | 81.75 | 77.47 | 62.23 | 69.35 |



\*Lock pin type is also available.

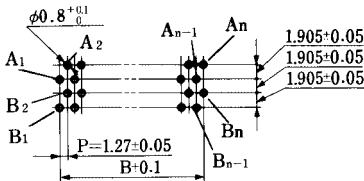
■Receptacle Straight Type without Mounting hole



(20, 32, 40, 52, 60, 68, 80, 100 contacts)

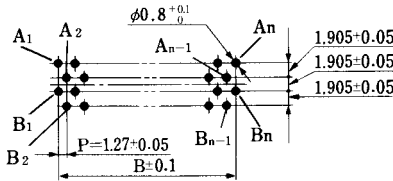
◆PCB mounting pattern

Guide Key Side



(20, 32, 40, 52, 60, 68, 80, 100 contacts)

Guide Key Side

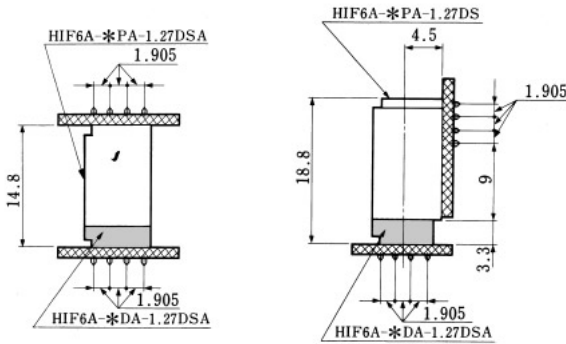


(26, 34, 50 contacts)



(26, 34, 50 contacts)

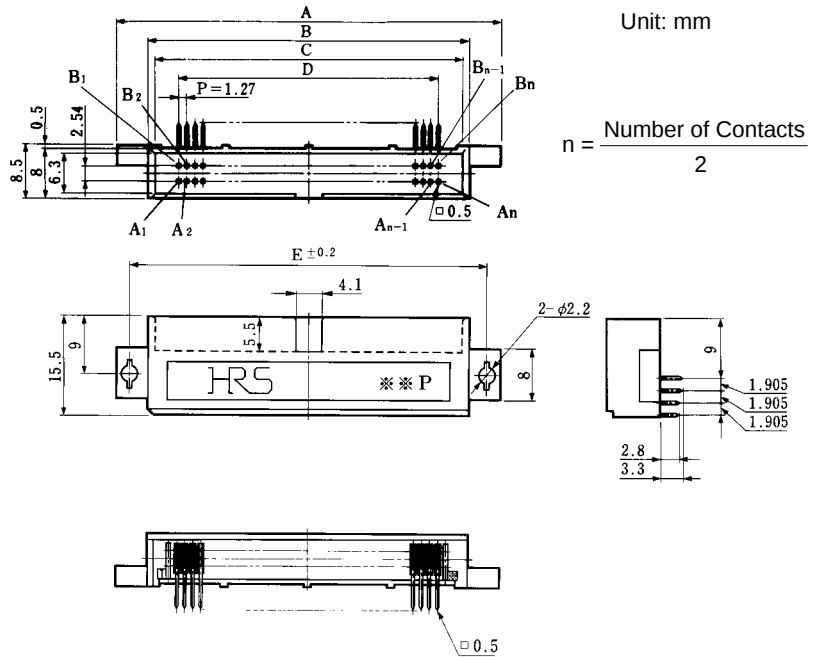
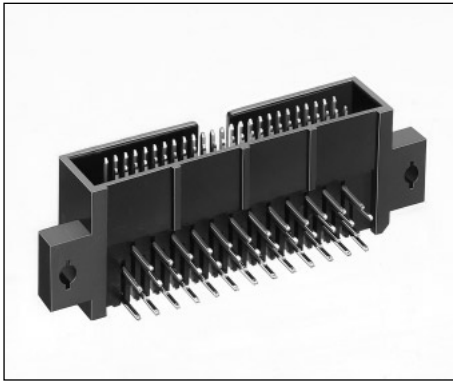
◆Application Pattern



Unit: mm

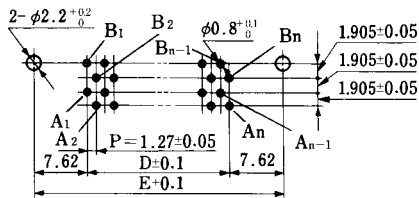
| Part Number         | CL No.     | Number of Contacts | A     | B     | C     |
|---------------------|------------|--------------------|-------|-------|-------|
| HIF6A- 20DA-1.27DSA | 631-0101-5 | 20                 | 20.95 | 11.43 | 18.55 |
| HIF6A- 26DA-1.27DSA | 631-0102-8 | 26                 | 24.76 | 15.24 | 22.36 |
| HIF6A- 32DA-1.27DSA | 631-0103-0 | 32                 | 28.57 | 19.05 | 26.17 |
| HIF6A- 34DA-1.27DSA | 631-0104-3 | 34                 | 29.84 | 20.32 | 27.44 |
| HIF6A- 40DA-1.27DSA | 631-0105-6 | 40                 | 33.65 | 24.13 | 31.25 |
| HIF6A- 50DA-1.27DSA | 631-0106-9 | 50                 | 40.00 | 30.48 | 37.60 |
| HIF6A- 52DA-1.27DSA | 631-0107-1 | 52                 | 41.27 | 31.75 | 38.87 |
| HIF6A- 60DA-1.27DSA | 631-0108-4 | 60                 | 46.35 | 36.83 | 43.95 |
| HIF6A- 68DA-1.27DSA | 631-0109-7 | 68                 | 51.43 | 41.91 | 49.03 |
| HIF6A- 80DA-1.27DSA | 631-0110-6 | 80                 | 59.05 | 49.53 | 56.65 |
| HIF6A-100DA-1.27DSA | 631-0111-9 | 100                | 71.75 | 62.23 | 69.35 |

## ■Pin Header Right Angle Type with Mounting hole



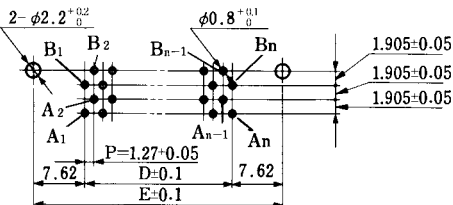
## ◆PCB mounting pattern

Mating Side



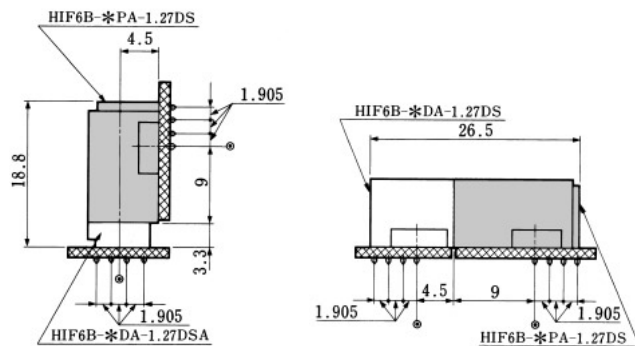
(20, 32, 40, 52, 60, 68, 80, 100 contacts)

Mating Side



(26, 34, 50 contacts)

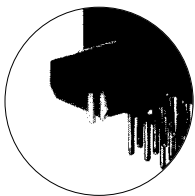
## ◆Application Pattern



○ Mounting hole center line

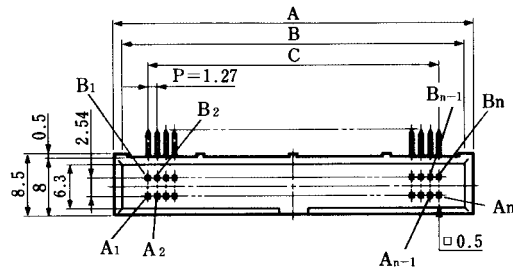
Unit: mm

| Part Number        | CL No.     | Number of Contacts | A     | B     | C     | D     | E     |
|--------------------|------------|--------------------|-------|-------|-------|-------|-------|
| HIF6B- 20PA-1.27DS | 631-0251-8 | 20                 | 30.95 | 20.95 | 18.75 | 11.43 | 26.67 |
| HIF6B- 26PA-1.27DS | 631-0252-0 | 26                 | 34.76 | 24.76 | 22.56 | 15.24 | 30.48 |
| HIF6B- 32PA-1.27DS | 631-0253-3 | 32                 | 38.57 | 28.57 | 26.37 | 19.05 | 34.29 |
| HIF6B- 34PA-1.27DS | 631-0254-6 | 34                 | 39.84 | 29.84 | 27.64 | 20.32 | 35.56 |
| HIF6B- 40PA-1.27DS | 631-0255-9 | 40                 | 43.65 | 33.65 | 31.45 | 24.13 | 39.37 |
| HIF6B- 50PA-1.27DS | 631-0256-1 | 50                 | 50.00 | 40.00 | 37.80 | 30.48 | 45.72 |
| HIF6B- 52PA-1.27DS | 631-0257-4 | 52                 | 51.27 | 41.27 | 39.07 | 31.75 | 46.99 |
| HIF6B- 60PA-1.27DS | 631-0258-7 | 60                 | 56.35 | 46.35 | 44.15 | 36.83 | 52.07 |
| HIF6B- 68PA-1.27DS | 631-0259-0 | 68                 | 61.43 | 51.43 | 49.23 | 41.91 | 57.15 |
| HIF6B- 80PA-1.27DS | 631-0260-9 | 80                 | 69.05 | 59.05 | 56.85 | 49.53 | 64.77 |
| HIF6B-100PA-1.27DS | 631-0261-1 | 100                | 81.75 | 71.75 | 69.55 | 62.23 | 77.47 |



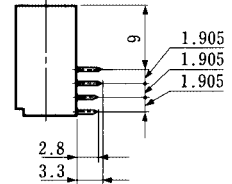
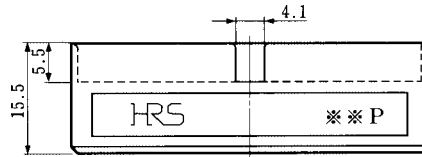
※Lock pin type is also available.

## ■Pin Header Right Angle Type Without Mounting hole

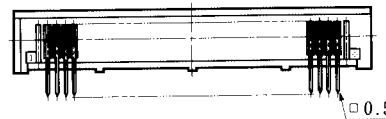


Unit: mm

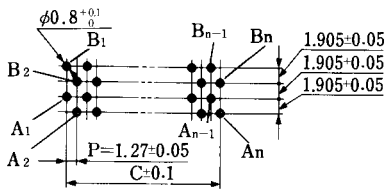
$$n = \frac{\text{Number of Contacts}}{2}$$



## ◆PCB mounting pattern

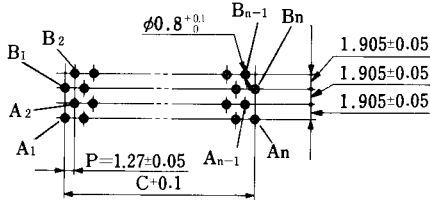


Mating Side



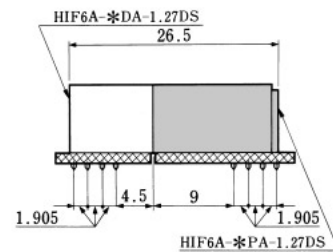
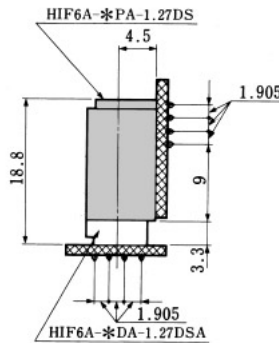
(20, 32, 40, 52, 60, 68, 80, 100 contacts)

Mating Side



(26, 34, 50 contacts)

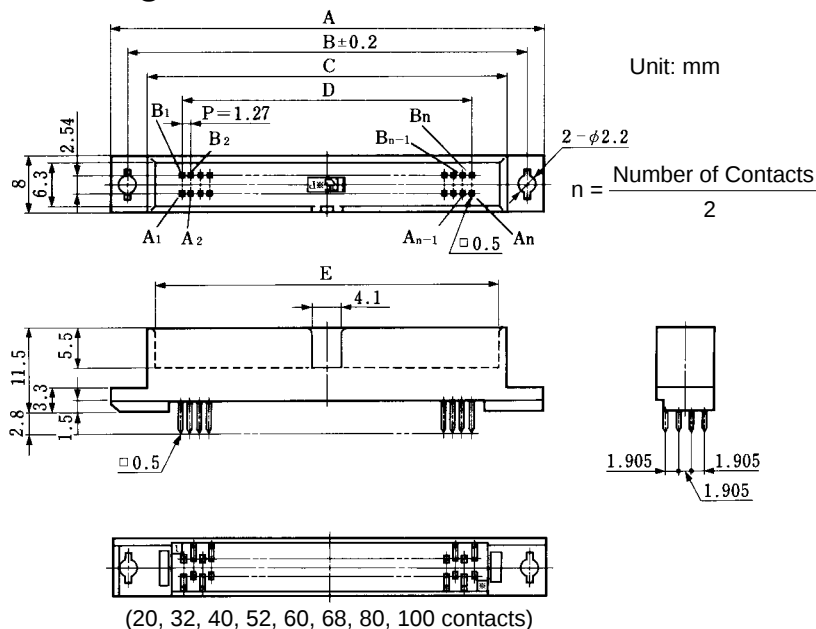
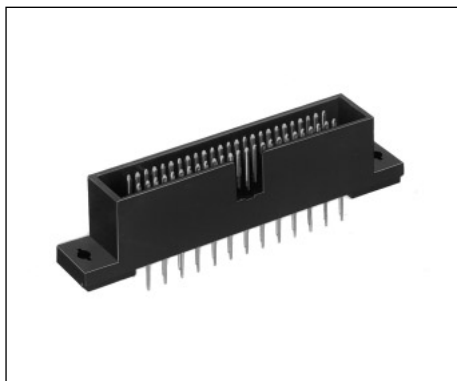
## ◆Application Pattern



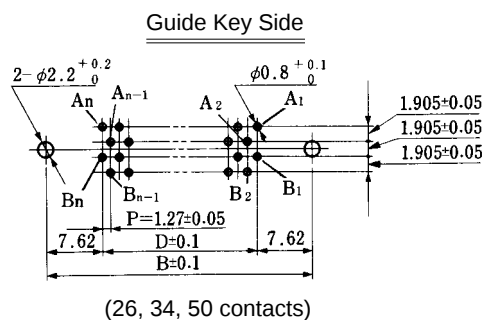
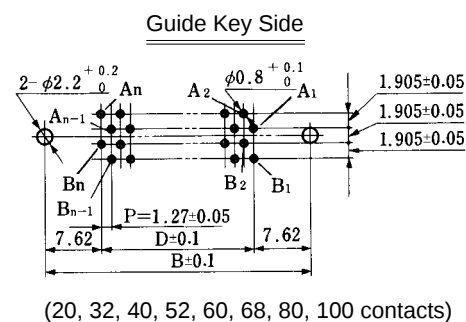
Unit: mm

| Part Number        | CL No.     | Number of Contacts | A     | B     | C     |
|--------------------|------------|--------------------|-------|-------|-------|
| HIF6A- 20PA-1.27DS | 631-0201-0 | 20                 | 20.95 | 18.75 | 11.43 |
| HIF6A- 26PA-1.27DS | 631-0202-2 | 26                 | 24.76 | 22.56 | 15.24 |
| HIF6A- 32PA-1.27DS | 631-0203-5 | 32                 | 28.57 | 26.37 | 19.05 |
| HIF6A- 34PA-1.27DS | 631-0204-8 | 34                 | 29.84 | 27.64 | 20.32 |
| HIF6A- 40PA-1.27DS | 631-0205-0 | 40                 | 33.65 | 31.45 | 24.13 |
| HIF6A- 50PA-1.27DS | 631-0206-3 | 50                 | 40.00 | 37.80 | 30.48 |
| HIF6A- 52PA-1.27DS | 631-0207-6 | 52                 | 41.27 | 39.07 | 31.75 |
| HIF6A- 60PA-1.27DS | 631-0208-9 | 60                 | 46.35 | 44.15 | 36.83 |
| HIF6A- 68PA-1.27DS | 631-0209-1 | 68                 | 51.43 | 49.23 | 41.91 |
| HIF6A- 80PA-1.27DS | 631-0210-0 | 80                 | 59.05 | 56.85 | 49.53 |
| HIF6A-100PA-1.27DS | 631-0211-3 | 100                | 71.75 | 69.55 | 62.23 |

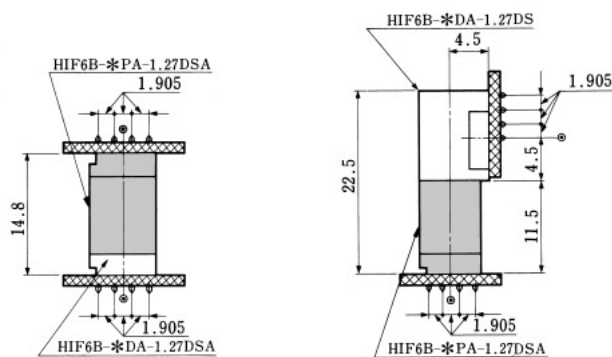
## ■Pin Header Straight Type with Mounting hole



## ◆PCB mounting pattern

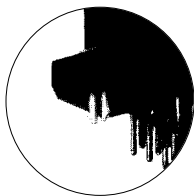


## ◆ Application Pattern



⊙ Mounting hole center line

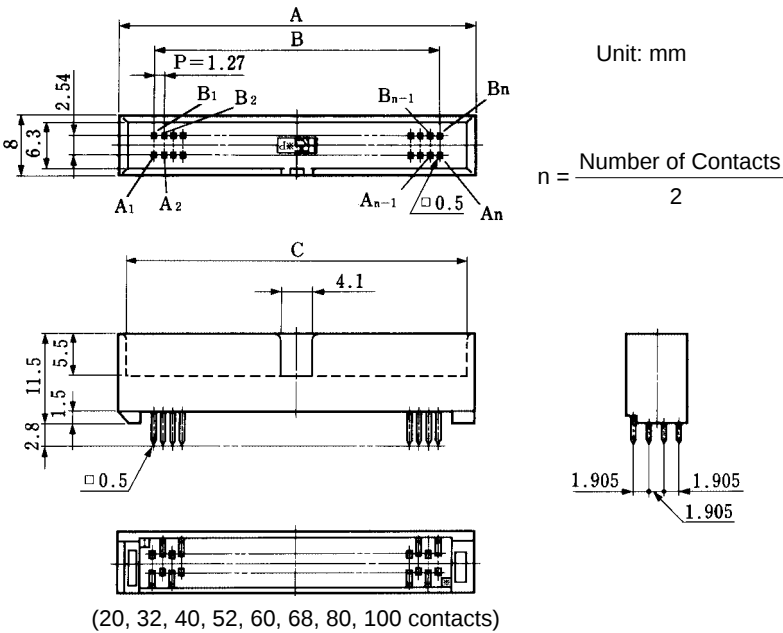
Unit: mm



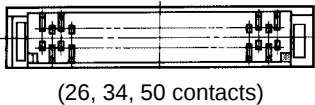
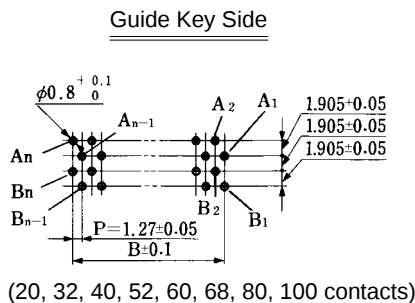
\*Lock pin type is also available.

| Part Number         | CL No.     | Number of Contacts | A     | B     | C     | D     | E     |
|---------------------|------------|--------------------|-------|-------|-------|-------|-------|
| HIF6B- 20PA-1.27DSA | 631-0351-2 | 20                 | 30.95 | 26.67 | 20.95 | 11.43 | 18.75 |
| HIF6B- 26PA-1.27DSA | 631-0352-5 | 26                 | 34.76 | 30.48 | 24.76 | 15.24 | 22.56 |
| HIF6B- 32PA-1.27DSA | 631-0353-8 | 32                 | 38.57 | 34.29 | 28.57 | 19.05 | 26.37 |
| HIF6B- 34PA-1.27DSA | 631-0354-0 | 34                 | 39.84 | 35.56 | 29.84 | 20.32 | 27.64 |
| HIF6B- 40PA-1.27DSA | 631-0355-3 | 40                 | 43.65 | 39.37 | 33.65 | 24.13 | 31.45 |
| HIF6B- 50PA-1.27DSA | 631-0356-6 | 50                 | 50.00 | 45.72 | 40.00 | 30.48 | 37.80 |
| HIF6B- 52PA-1.27DSA | 631-0357-9 | 52                 | 51.27 | 46.99 | 41.27 | 31.75 | 39.07 |
| HIF6B- 60PA-1.27DSA | 631-0358-1 | 60                 | 56.35 | 52.07 | 46.35 | 36.83 | 44.15 |
| HIF6B- 68PA-1.27DSA | 631-0359-4 | 68                 | 61.43 | 57.15 | 51.43 | 41.91 | 49.23 |
| HIF6B- 80PA-1.27DSA | 631-0360-3 | 80                 | 69.05 | 64.77 | 59.05 | 49.53 | 56.85 |
| HIF6B-100PA-1.27DSA | 631-0361-6 | 100                | 81.75 | 77.47 | 71.75 | 62.23 | 69.55 |

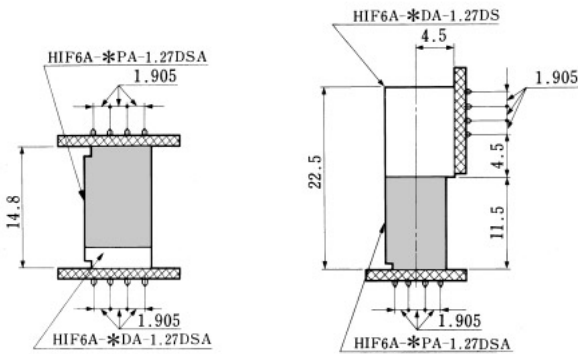
■Pin Header Straight Type Without Mounting hole



◆PCB mounting pattern



◆Application Pattern



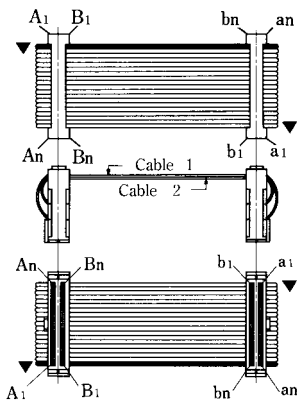
Unit: mm

| Part Number         | CL No.     | Number of Contacts | A     | B     | C     |
|---------------------|------------|--------------------|-------|-------|-------|
| HIF6A- 20PA-1.27DSA | 631-0301-4 | 20                 | 20.95 | 11.43 | 18.75 |
| HIF6A- 26PA-1.27DSA | 631-0302-7 | 26                 | 24.76 | 15.24 | 22.56 |
| HIF6A- 32PA-1.27DSA | 631-0303-0 | 32                 | 28.57 | 19.05 | 26.37 |
| HIF6A- 34PA-1.27DSA | 631-0304-2 | 34                 | 29.84 | 20.32 | 27.64 |
| HIF6A- 40PA-1.27DSA | 631-0305-5 | 40                 | 33.65 | 24.13 | 31.45 |
| HIF6A- 50PA-1.27DSA | 631-0306-8 | 50                 | 40.00 | 30.48 | 37.80 |
| HIF6A- 52PA-1.27DSA | 631-0307-0 | 52                 | 41.27 | 31.75 | 39.07 |
| HIF6A- 60PA-1.27DSA | 631-0308-3 | 60                 | 46.35 | 36.83 | 44.15 |
| HIF6A- 68PA-1.27DSA | 631-0309-6 | 68                 | 51.43 | 41.91 | 49.23 |
| HIF6A- 80PA-1.27DSA | 631-0310-5 | 80                 | 59.05 | 49.53 | 56.85 |
| HIF6A-100PA-1.27DSA | 631-0311-8 | 100                | 71.75 | 62.23 | 69.55 |

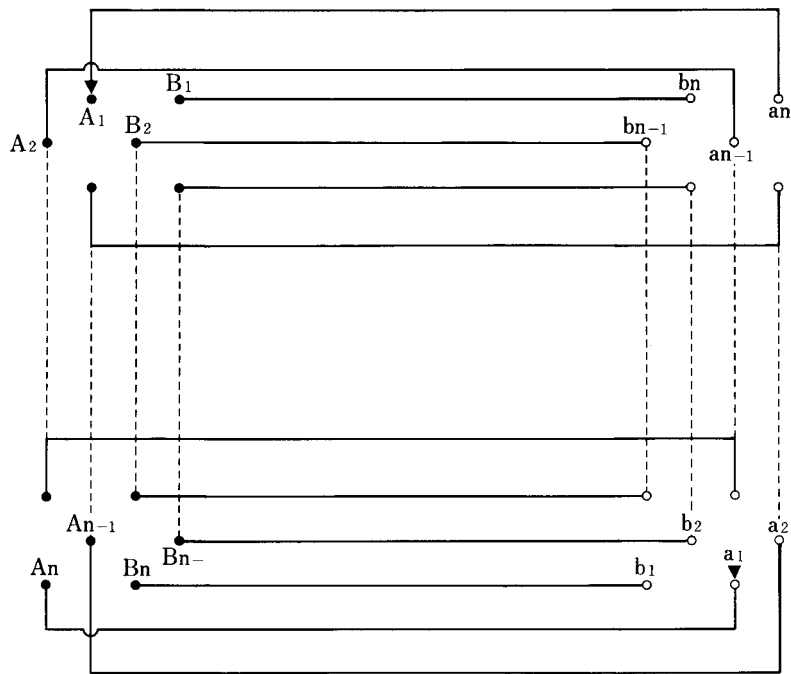
◆ **Connection Circuit** (20, 32, 40, 52, 60, 68, 80, 100 contacts)

$$n = \frac{\text{Number of Contacts}}{2}$$

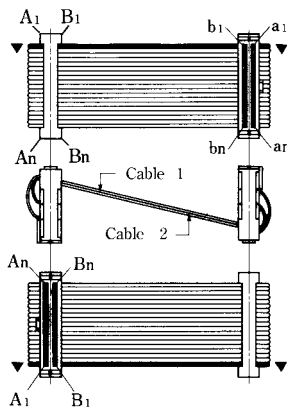
**Type A, B**



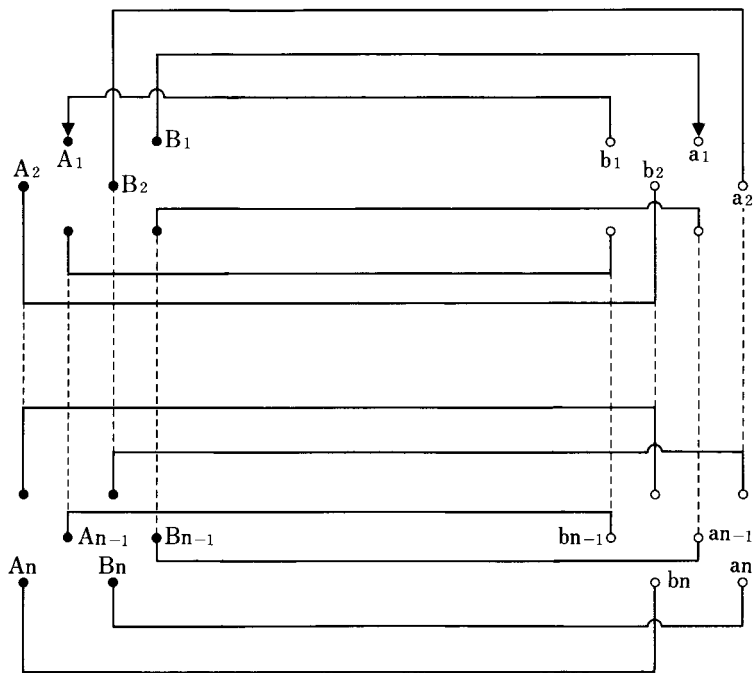
|                       |                       |
|-----------------------|-----------------------|
| Connection of Cable 1 | Connection of Cable 2 |
| A1 ————— an           | B1 ————— bn           |
| A2 ————— an-1         | B2 ————— bn-1         |
| ⋮                     | ⋮                     |
| An ————— a1           | Bn ————— b1           |



**Type A, A**



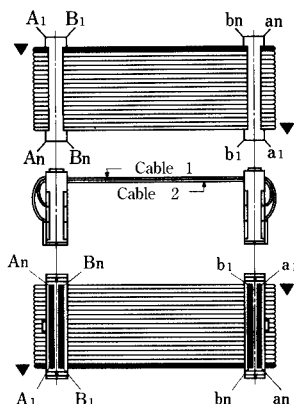
|                       |                       |
|-----------------------|-----------------------|
| Connection of Cable 1 | Connection of Cable 2 |
| A1 ————— b1           | B1 ————— a1           |
| A2 ————— b2           | B2 ————— a2           |
| ⋮                     | ⋮                     |
| An ————— bn           | Bn ————— an           |



# ◆ **Connection Circuit** (26, 40, 50 contacts)

$$n = \frac{\text{Number of Contacts}}{2}$$

## **Type A, B**

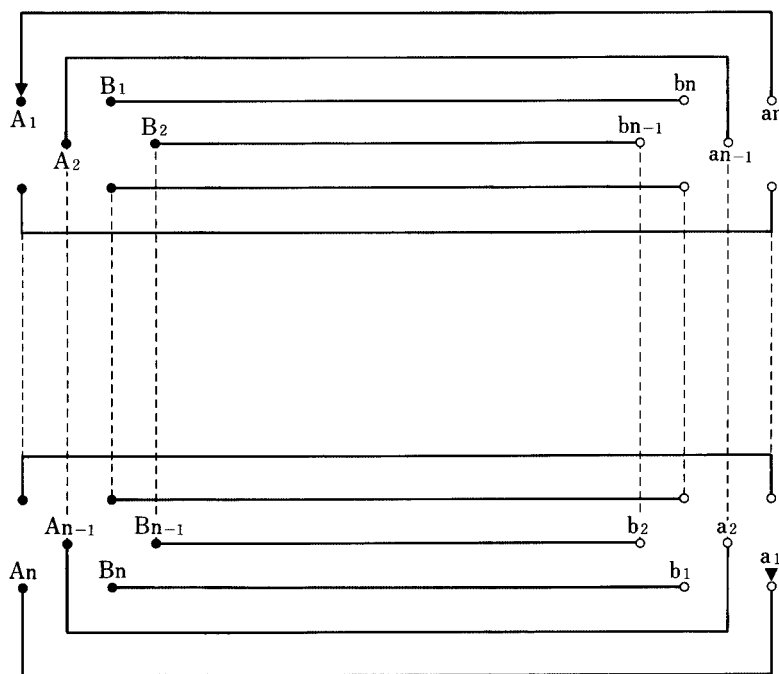


Connection of Cable 1

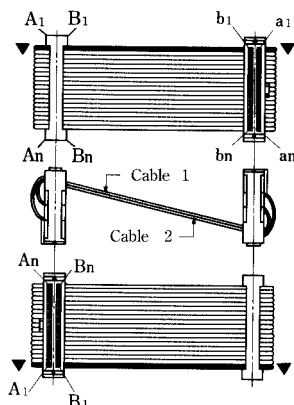
A1 — an  
A2 — an-1  
⋮  
An — a1

Connection of Cable 2

B1 — bn  
B2 — bn-1  
⋮  
Bn — b1



## **Type A, A**

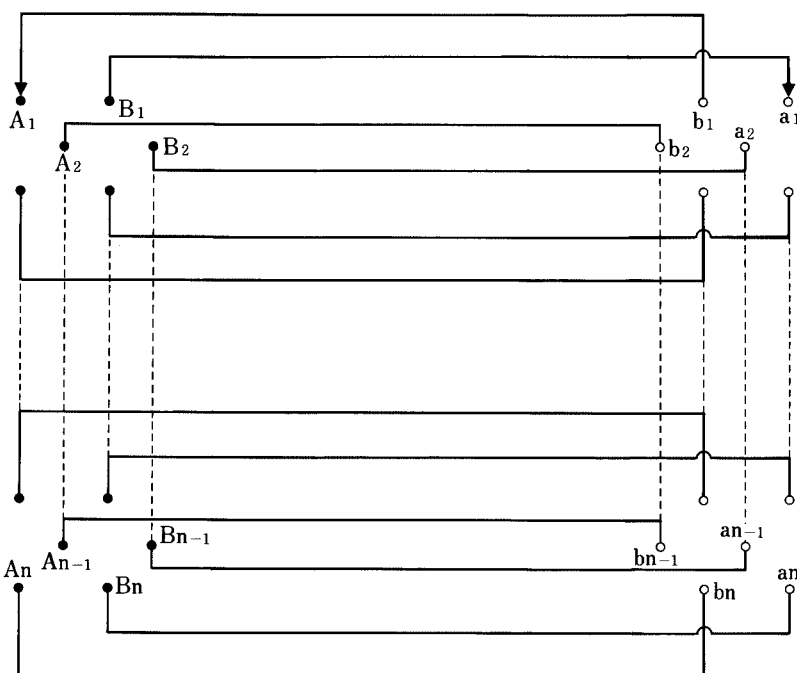


Connection of Cable 1

A1 — b1  
A2 — b2  
⋮  
An — bn

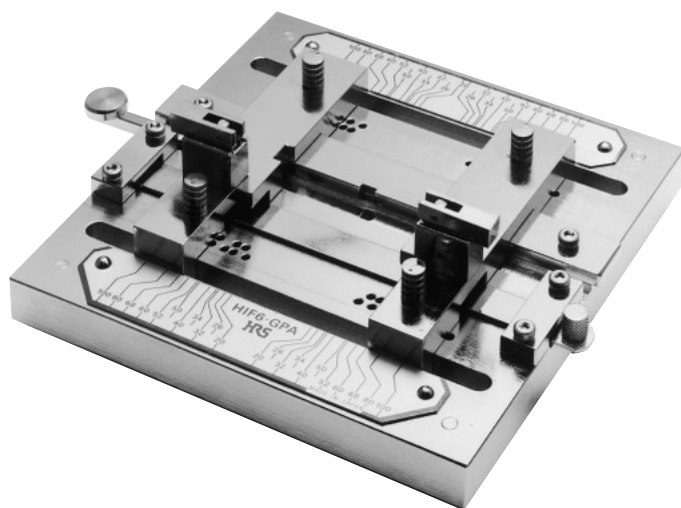
Connection of Cable 2

B1 — a1  
B2 — a2  
⋮  
Bn — an



## ◆Connection Jig

### ●Guide Plate



HIF 6 - GPA  
CL550 - 0165 - 8

### ●Hi-Flex Connection Press



Hi-Flex Connection Press HHP502  
CL550 - 0082 - 2

#### \*Pressing Block

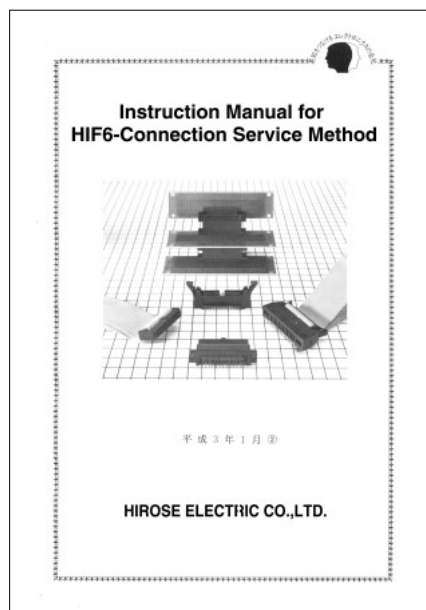
| Part Number         | CL No.     |
|---------------------|------------|
| Pressing Block A-01 | 550-0133-1 |

### ●Cable Cutter



HIF6 Cable Cutter-FC601  
CL550 - 0166 - 0

### ●Instruction Manual for HIF6 Connection Service Method



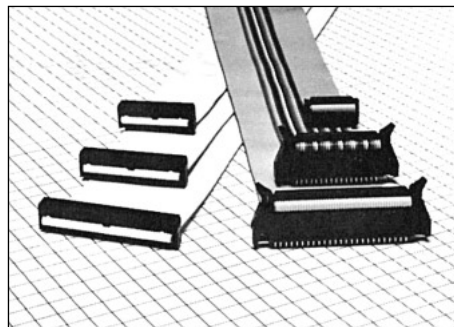
14 Pages

## ■HIF6 Series: Connection Type Coupled Connector

### HIF3B Series (MIL-C-83503)

- Compliant with the MIL standard
- The VA idea is reflected on both pin header and socket.
- Products with pull-out tab are available.
- Countermeasures are taken against noises in combination with the applicable cover case.
- The type aligned in single-row, low profile type, is available for pin header locking system, in addition to standard products.

Number of contacts: 6, 10, 14, 16, 20, 26, 30, 34, 40, 50, 60, 64



### HIF2 Series (Board direct mount type)

#### ①2-row parallel type (HIF2E)

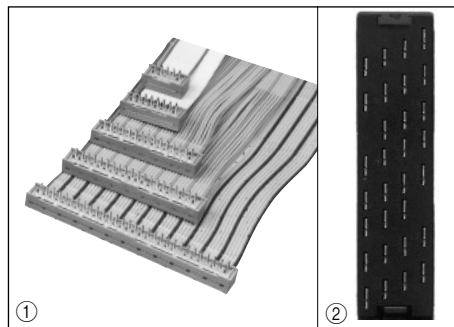
Number of contacts: 10, 14, 16, 20, 26, 30, 34, 40, 50, 60

2.54mm grid alignment facilitates to the design pattern.

#### ②4-row staggered type (HIF2C)

Number of contacts: 10, 14, 16, 20, 26, 30, 34, 40, 50, 60

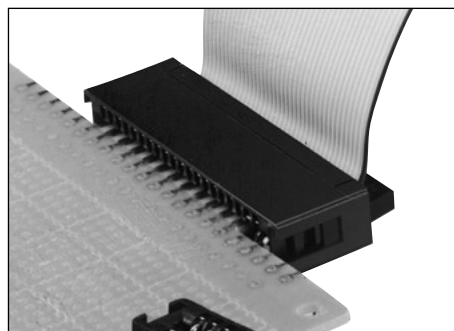
Mounting height is 4.9mm low profile type.



### HIF5 Series (Card edge ribbon type)

- Three types of full hole, semi-hole and no mount area are provided for the unit mount area.
- Connectors are connected in the bus line system.
- Cables can be returned within the connector mold width.

Number of contacts: 20, 26, 34, 40, 50, 60



### RC Series (Micro ribbon connector)

- Since the cable insulation displacement area is standard pitch 1.27mm, the standard ribbon cable can be easily utilized.
- Countermeasures are taken against noises in combination with the cover case.
- Cover case is light weight and compact.
- Straight and right angle types are installed on the dip side.

Number of contacts: 14, 24, 36, 50



### FD Series (D sub-ribbon connector)

- The standard pitch 1.27mm ribbon cable can be insulated and displaced by replacing a jig, in addition to the same pitch 1.38mm as for the D sub connector.
- The space saving type allows to reduce the thickness on the connection side according to set miniaturization.
- Connectors can be installed from both front and rear sides of the chassis or panel.

Number of contacts: 9, 15, 25, 37

