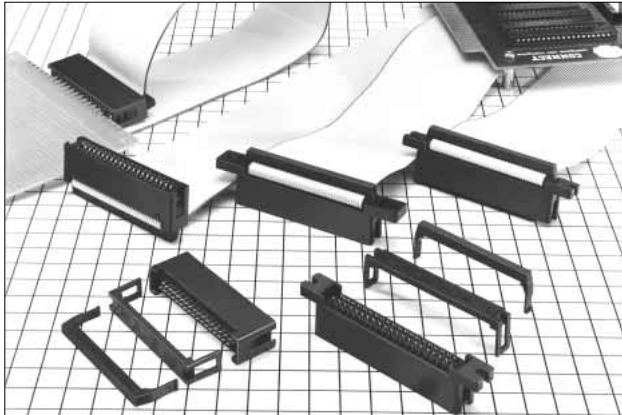


# Card Edge Type Ribbon Cable Connectors

## HIF5 Series



### ■ Features

#### 1. Product Variation

The area to install the connector body is classified into three types according to full hole mounting area, semi-mounting area and non-mounting area.

#### 2. Mounting Density Enhancement

This connector is designed so that the ribbon cable can turn back within the connector molding range. The connector can be installed without coming out of the insulator.

#### 3. Applicable Cable

The applicable cable is a <UL2651>28 AWG flat cable  
(7pcs./0.127mm, jacket dia. : 0.8 to 1.0mm).

### ■ Product Specifications

|        |                                                 |                                                                                           |                                                                                                  |
|--------|-------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Rating | Current rating : 1A<br>Voltage rating : 200V AC | Operating Temperature Range : -55 to +85°C (Note 1)<br>Operating Moisture Range:40 to 80% | Storage Temperature Range : -10 to +60°C (Note 2)<br>Storage Humidity Range : 40 to 70% (Note 2) |
|--------|-------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|

| Item                             | Specification                              | Condition                                                                                                     |
|----------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 1. Insulation Resistance         | 1000MΩ min.                                | 500V DC                                                                                                       |
| 2. Withstanding voltage          | No flashover or insulation breakdown.      | 650V AC/1 minute                                                                                              |
| 3. Contact Resistance            | 15mΩ 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 : 1000MΩ 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.<br>125°C : 30 minutes →15 to 35°C : 5 minutes max.) 5 cycles |
| 7. Durability (Mating/un-mating) | Contact resistance 15mΩ max.               | 500 cycles                                                                                                    |

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.

### ■ Materials / Finish

| Part      | Material     | Finish          |                                     | Remarks |
|-----------|--------------|-----------------|-------------------------------------|---------|
| Insulator | PBT          | Black           |                                     | UL94V-0 |
| Contact   | Copper alloy | Contact area    | Gold plated over nickel underplated | —       |
|           |              | Connection area | Nickel plated                       |         |

### ■ Product Number Structure

Refer to the chart below when determining the product specifications from the product number.

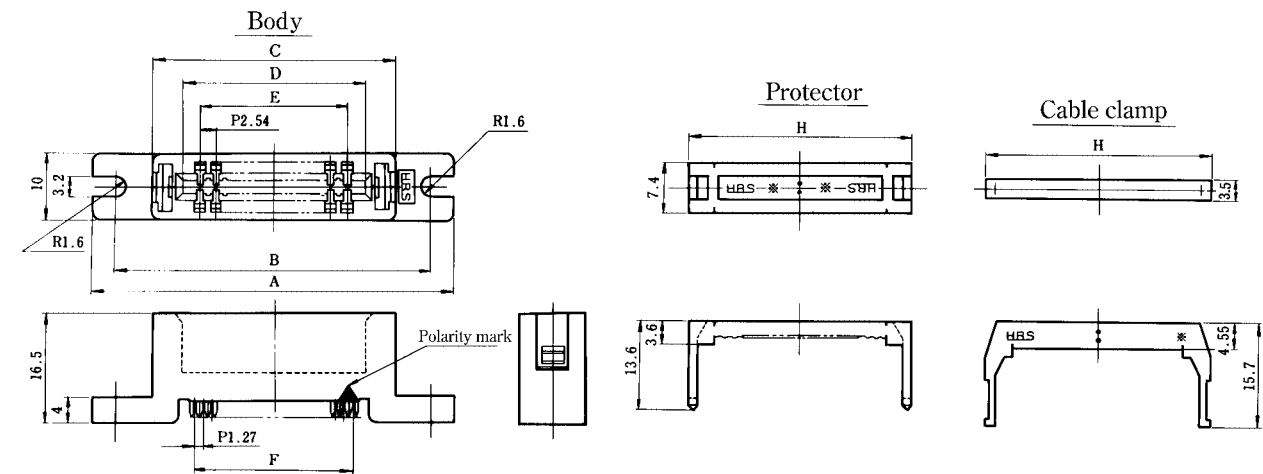
Please select from the product numbers listed in this catalog when placing orders.

**HIF5   C   -   \*   D   A   -   2.54   R**  
①   ②   ③   ④   ⑤   ⑥   ⑦

|                                                                        |                                            |
|------------------------------------------------------------------------|--------------------------------------------|
| ① Series Name : HIF5                                                   | ④ Contact alignment : D : Double           |
| ② Mold type   C : With half mounting hole<br>D : Without mounting hole | ⑤ Plating type : A : Selective gold plated |
| ③ Number of contacts : 20, 26, 34, 40, 50, 60                          | ⑥ Contact Pitch : 2.54mm                   |
|                                                                        | ⑦ Connection type : R : Ribbon cable       |

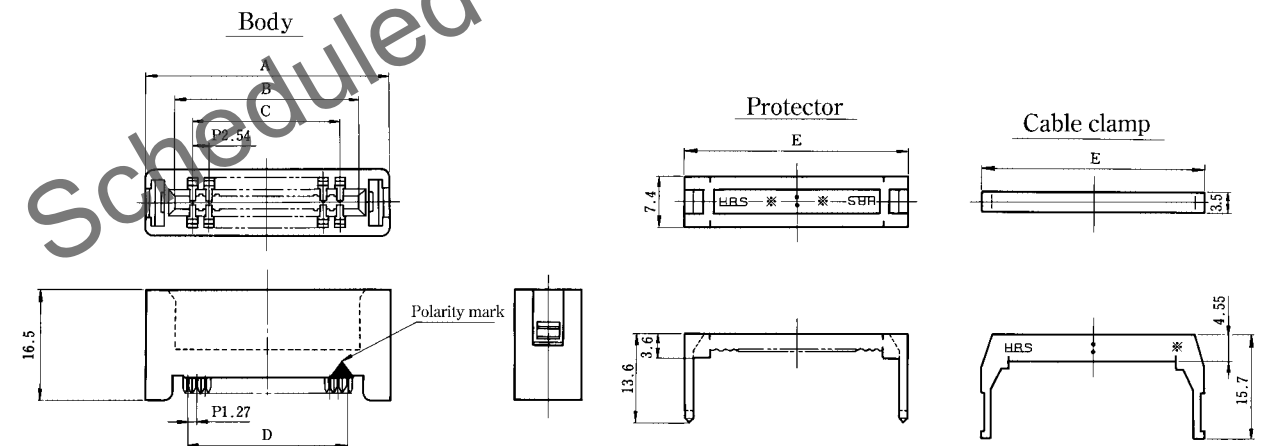
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■ With Mounting Half hole



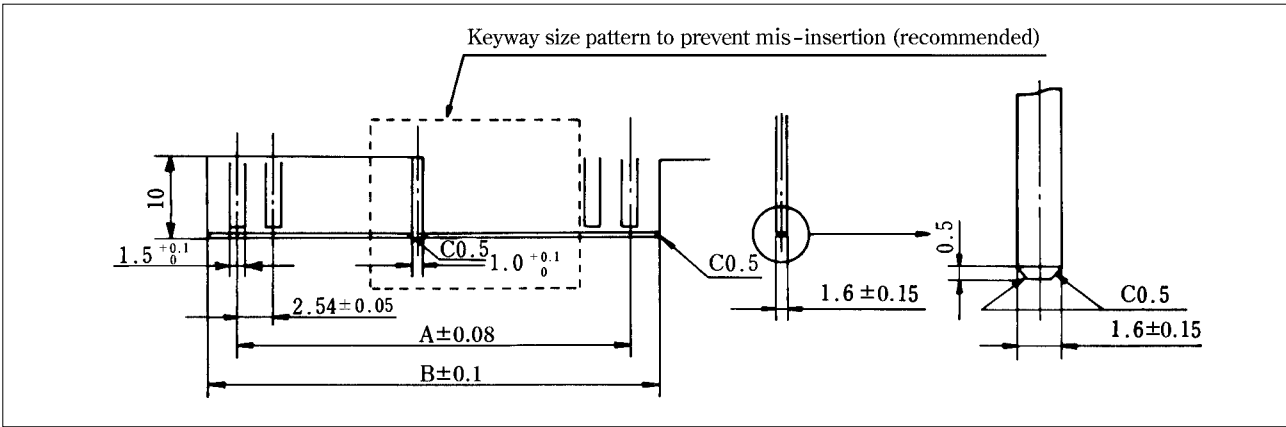
| Part No.             | HRS No.       | No. of Contacts | A     | B     | C     | D     | E     | F     | H     | RoHS |
|----------------------|---------------|-----------------|-------|-------|-------|-------|-------|-------|-------|------|
| HIF5C-20DA-2.54R(91) | 564-0020-8 91 | 20              | 50.8  | 45.72 | 36.04 | 28.04 | 22.86 | 24.13 | 33.54 | YES  |
| HIF5C-26DA-2.54R(91) | 564-0021-0 91 | 26              | 58.42 | 53.34 | 43.66 | 35.66 | 30.48 | 31.75 | 41.16 |      |
| HIF5C-50DA-2.54R(91) | 564-0024-9 91 | 50              | 88.9  | 83.82 | 74.14 | 66.14 | 60.96 | 62.23 | 71.64 |      |
| HIF5C-60DA-2.54R(91) | 564-0025-1 91 | 60              | 101.6 | 96.52 | 86.84 | 78.84 | 73.66 | 74.93 | 84.34 |      |

■ Without Mounting Hole



| Part No.             | HRS No.       | No. of Contacts | A     | B     | C     | D     | E     | RoHS |
|----------------------|---------------|-----------------|-------|-------|-------|-------|-------|------|
| HIF5D-34DA-2.54R(91) | 564-0028-0 91 | 34              | 53.82 | 45.82 | 40.64 | 41.91 | 51.32 | YES  |
| HIF5D-40DA-2.54R(91) | 564-0029-2 91 | 40              | 61.44 | 53.44 | 48.26 | 49.53 | 58.94 |      |
| HIF5D-50DA-2.54R(91) | 564-0030-1 91 | 50              | 74.14 | 66.14 | 60.96 | 62.23 | 71.64 |      |
| HIF5D-60DA-2.54R(91) | 564-0031-4 91 | 60              | 86.84 | 78.84 | 73.66 | 74.93 | 84.34 |      |

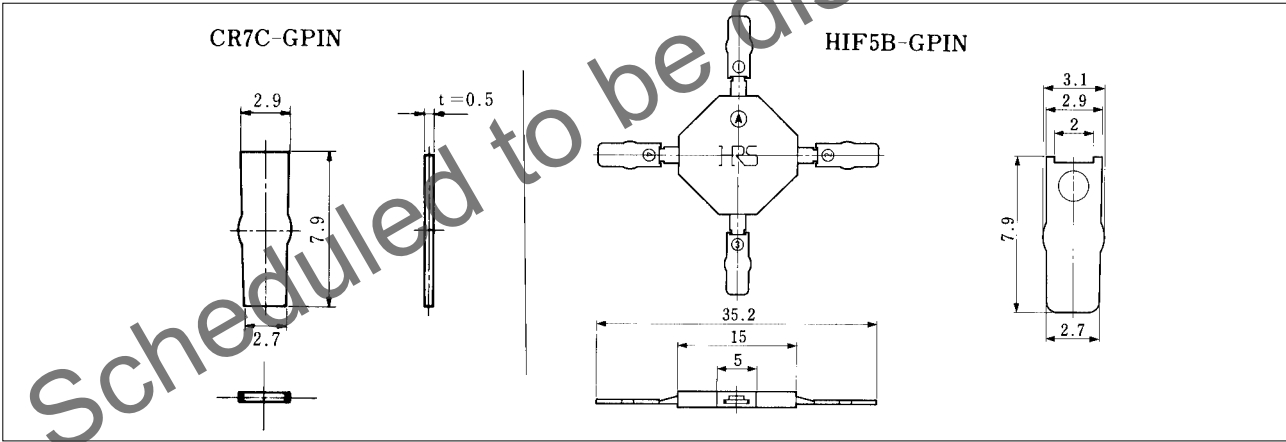
◆PCB Dimensions



| No. of Contacts | 20    | 26    | 34    | 40    | 50    | 60    |
|-----------------|-------|-------|-------|-------|-------|-------|
| A               | 22.86 | 30.48 | 40.64 | 48.26 | 60.96 | 73.66 |
| B               | 27.84 | 35.46 | 45.62 | 53.24 | 65.94 | 78.64 |

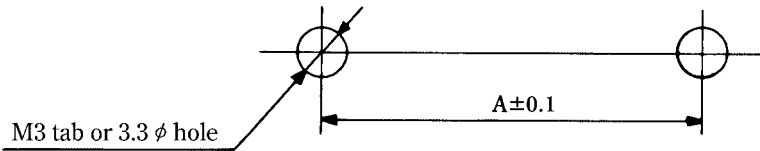
Note : Using the polarizing key prevents mis-insertion in the printed board.  
For use, insert the polarizing key so as to hit the mold bottom.

◆Polarizing Key



| Part No.   | HRS No.    | Material                 | RoHS |
|------------|------------|--------------------------|------|
| CR7C-GPIN  | 507-0055-8 | Poly acetal resin, white | YES  |
| HIF5B-GPIN | 564-0052-4 | PBT, beige               |      |

◆Panel Cutouts



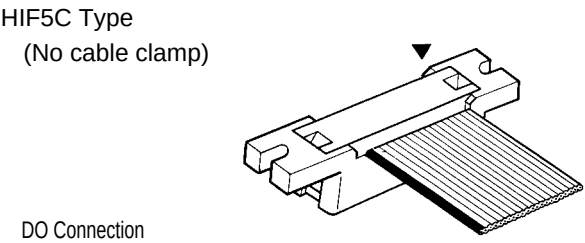
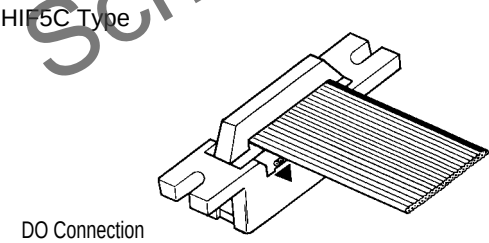
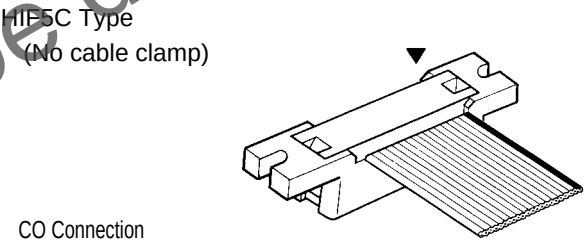
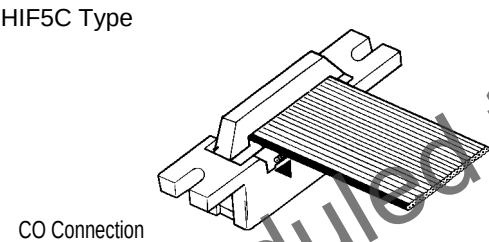
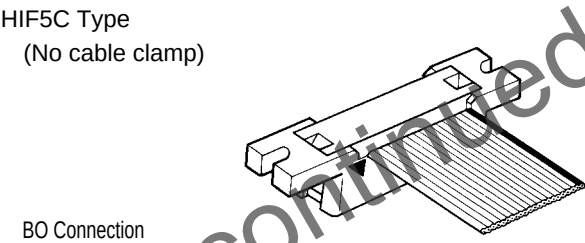
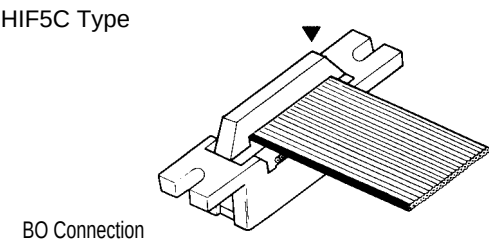
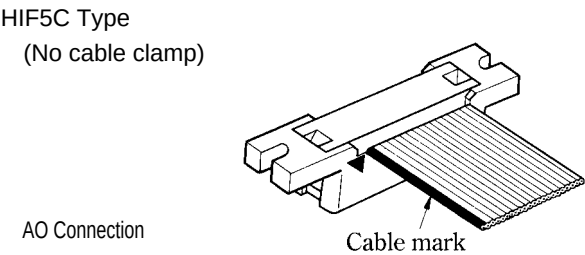
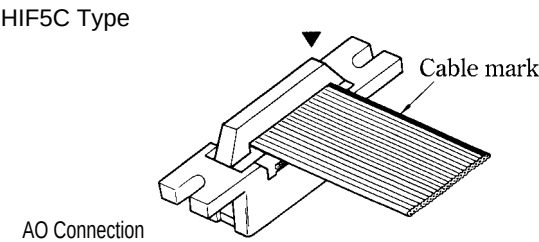
Unit : mm

|                    | No. of Contacts | 20    | 26    | 34    | 40    | 50    | 60    |
|--------------------|-----------------|-------|-------|-------|-------|-------|-------|
| mounting Half hole | size A          | 45.72 | 53.34 | 63.50 | 71.12 | 83.82 | 96.52 |

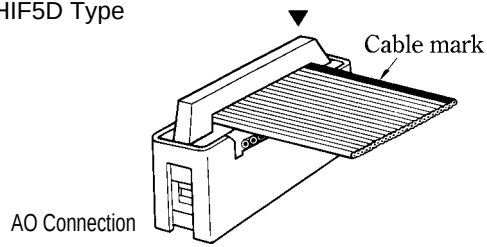
◆Connection Procedures

Note 1 : Cable length tolerance    Less than 500 <sup>+10</sup>/<sub>0</sub> (mm)  
More than 500 pcs. <sup>+3</sup>/<sub>0</sub> %

Note 2 : When a cable such as a twist cable or a slit (like a roller screen) cable is used, the cable pitch will slightly change according to cable manufacturers. If connection failure has occurred, consult HRS Sales Department.



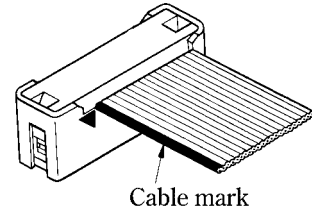
HIF5D Type



AO Connection

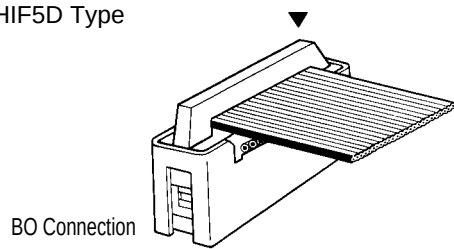
HIF5D Type  
(No cable clamp)

AO Connection



Cable mark

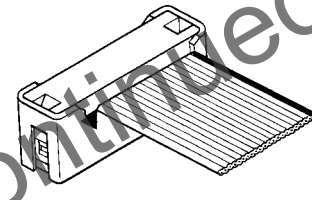
HIF5D Type



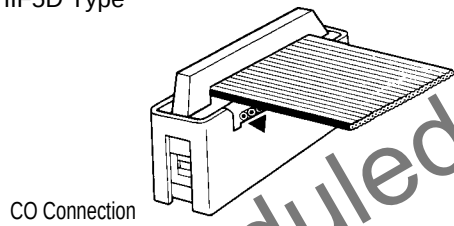
BO Connection

HIF5D Type  
(No cable clamp)

BO Connection



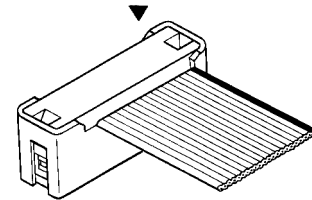
HIF5D Type



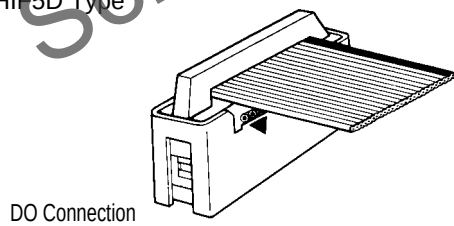
CO Connection

HIF5D Type  
(No cable clamp)

CO Connection



HIF5D Type



DO Connection

HIF5D Type  
(No cable clamp)

DO Connection

