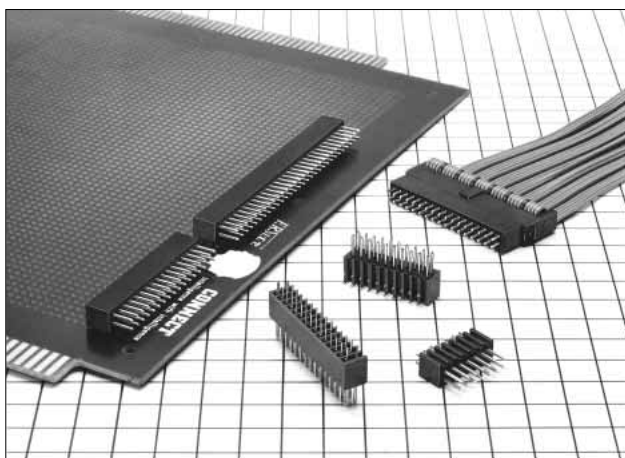


# Ribbon Cable Connector (Pin Header)

## HIF3E Series



### ■Features

#### 1. Product Variation

The straight type connector is connected vertical to the printed board, and the right angle type connector is connected horizontal to the printed board.

#### 2. Compatibility

This pin header is compatible with HIF3B series.

### ■Applications

Computers, terminal equipment, PPC, various kinds of electronic equipment, business machines, etc.

### ■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         | 1000M ohms min.                                     | 500V DC                                                                                                   |
| 2. Withstanding voltage          | No flashover or insulation breakdown.               | 650V AC/1 minute                                                                                          |
| 3. Contact Resistance            | 15m 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.              | (-55°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: 15m ohms max.                   | 500 cycles                                                                                                |
| 8. Resistance to Soldering heat  | No deformation of components affecting performance. | Solder Bath: 260°C for 10 seconds                                                                         |
|                                  |                                                     | Manual soldering: 360°C for 5 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.

Note 3: Information contained in this catalog represents general requirements for this Series.Contact us for the drawings and specifications for a specific part number shown.

### ■Material

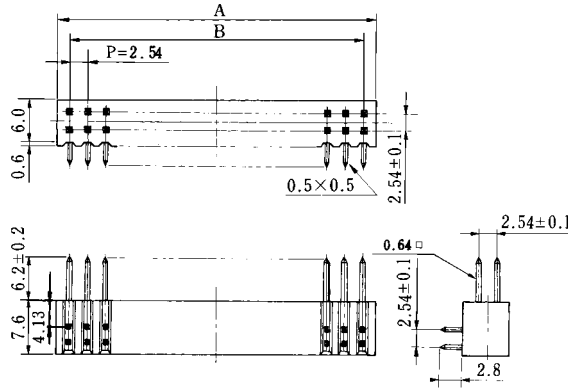
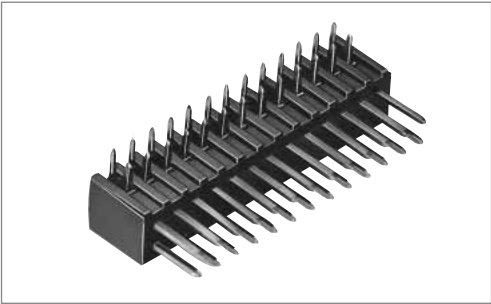
| Part      | Material | Finish                                         | Remarks |
|-----------|----------|------------------------------------------------|---------|
| Insulator | PBT      | Black                                          | UL94V-0 |
| Contact   | Brass    | Selective gold plating over nickel underplated | ——      |

### ■Ordering Information

**HIF3E** - \* **P** **A** - **2.54** **DS**  
① ② ③ ④ ⑤ ⑥

|                                                                        |                                                            |
|------------------------------------------------------------------------|------------------------------------------------------------|
| ① Series Name: HIF3E                                                   | ⑤ Contact Pitch: 2.54mm                                    |
| ② Number of contacts: 8, 10, 12, 16, 18, 20,<br>26, 30, 34, 40, 50, 60 | ⑥ Contact type DS : Right angle type<br>DSA: Straight type |
| ③ P: Pin header                                                        |                                                            |
| ④ A: Selective gold plating                                            |                                                            |

■Right Angle Pin Header

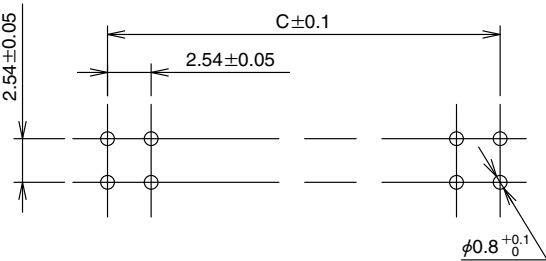


Unit: mm

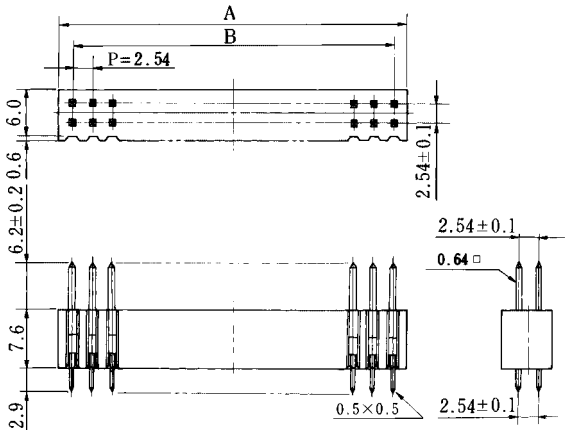
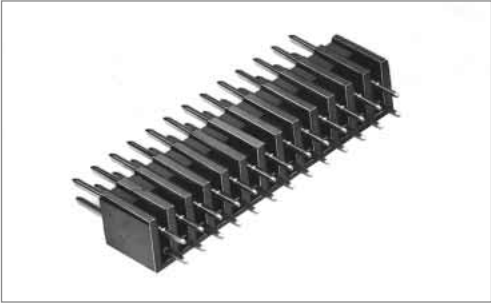
| Part Number           | CL No.        | Number of Contacts | A     | B     | RoHS |
|-----------------------|---------------|--------------------|-------|-------|------|
| HIF3E-10PA-2.54DS(71) | 614-0041-0-71 | 10                 | 13.7  | 10.16 | YES  |
| HIF3E-12PA-2.54DS(71) | 614-0050-0-71 | 12                 | 16.24 | 12.7  |      |
| HIF3E-16PA-2.54DS(71) | 614-0042-2-71 | 16                 | 21.3  | 17.78 |      |
| HIF3E-18PA-2.54DS(71) | 614-0051-3-71 | 18                 | 23.86 | 20.32 |      |
| HIF3E-20PA-2.54DS(71) | 614-0043-5-71 | 20                 | 26.4  | 22.86 |      |
| HIF3E-26PA-2.54DS(71) | 614-0044-8-71 | 26                 | 34.0  | 30.48 |      |
| HIF3E-30PA-2.54DS(71) | 614-0045-0-71 | 30                 | 39.1  | 35.56 |      |
| HIF3E-34PA-2.54DS(71) | 614-0046-3-71 | 34                 | 44.2  | 40.64 |      |
| HIF3E-40PA-2.54DS(71) | 614-0047-6-71 | 40                 | 51.8  | 48.26 |      |
| HIF3E-50PA-2.54DS(71) | 614-0048-9-71 | 50                 | 64.5  | 60.96 |      |
| HIF3E-60PA-2.54DS(71) | 614-0049-1-71 | 60                 | 77.2  | 73.66 |      |



PCB mounting pattern

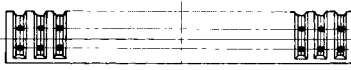


■Dip Pin Header



Unit: mm

| Part Number            | CL No.        | Number of Contacts | A     | B     | RoHS |
|------------------------|---------------|--------------------|-------|-------|------|
| HIF3E- 8PA-2.54DSA(71) | 614-0072-3-71 | 8                  | 11.2  | 7.62  | YES  |
| HIF3E-10PA-2.54DSA(71) | 614-0061-7-71 | 10                 | 13.7  | 10.16 |      |
| HIF3E-12PA-2.54DSA(71) | 614-0070-8-71 | 12                 | 16.24 | 12.7  |      |
| HIF3E-16PA-2.54DSA(71) | 614-0062-0-71 | 16                 | 21.3  | 17.78 |      |
| HIF3E-18PA-2.54DSA(71) | 614-0071-0-71 | 18                 | 23.86 | 20.32 |      |
| HIF3E-20PA-2.54DSA(71) | 614-0063-2-71 | 20                 | 26.4  | 22.86 |      |
| HIF3E-26PA-2.54DSA(71) | 614-0064-5-71 | 26                 | 34.0  | 30.48 |      |
| HIF3E-30PA-2.54DSA(71) | 614-0065-8-71 | 30                 | 39.1  | 35.56 |      |
| HIF3E-34PA-2.54DSA(71) | 614-0066-0-71 | 34                 | 44.2  | 40.64 |      |
| HIF3E-40PA-2.54DSA(71) | 614-0067-3-71 | 40                 | 51.8  | 48.26 |      |
| HIF3E-50PA-2.54DSA(71) | 614-0068-6-71 | 50                 | 64.5  | 60.96 |      |
| HIF3E-60PA-2.54DSA(71) | 614-0069-9-71 | 60                 | 77.2  | 73.66 |      |



PCB mounting pattern

