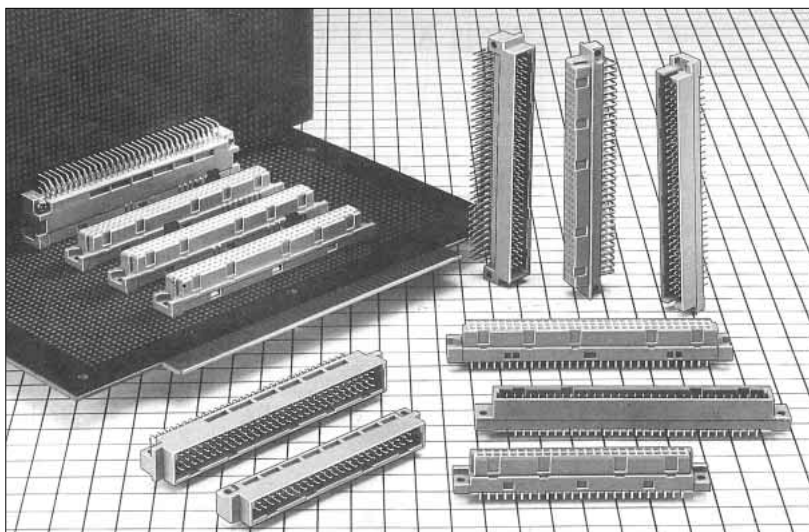


## PCN10, 12, 13 Series (Product Compliant to DIN Standard: through hole, Wrapping Type)



PCN Series

### ■ Features

#### 1. Compliant with DIN Standard

Comply with IEC603-2/DIN41612 standard.

#### 2. Variation in number of contacts

10, 16, 20, 24, 28, 30, 32, 44, 48, 50, 64, 90, 96, 100, 128, and 144 contacts are available.

#### 3. Two point contact construction

PCN10 and 12 series are constructed with high reliable double-sided two point contacts.

PCN13 series pursues after cost performance, and constructed with single sided two point contacts.

#### 4. Broad applications

DIN standard types of B, C, R, and Q are available. The flux tight product is available. The easy lock pin type to prefix the board is available.

#### 5. Stacking height variation

PCN10H series contains 25, 30, 35, 40 and 45mm stacking height.

#### 6. Circuit protection function available

PCN10MC series utilizes a sequence structure for circuit protection function.

#### 7. Cable connector

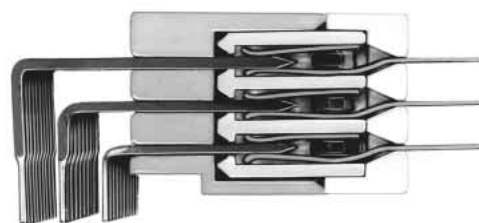
ID connector for ribbon cable is available.

The connector is prepared for crimping connection for AWC#26 to 30 cables.

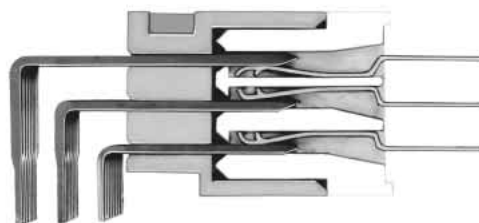
### ■ Application

Control equipment, exchange, measuring instruments etc.

#### Double-sided two point Contact System



#### Single-sided two point Contact System



#### Stacking Connector



## Product Specifications

|        |                                               |                                                                                        |                                                                                               |
|--------|-----------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Rating | Current rating: 2A<br>Voltage rating: 300V AC | Operating Temperature Range: -55 to +85℃ (Note 1)<br>Operating Humidity Range: 85% max | Storage Temperature Range: -10 to +60℃ (Note 2)<br>Storage Humidity Range: 40 to 70% (Note 2) |
|--------|-----------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|

| Item                            | Specification                                       | Condition                                                                                              |
|---------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1.Insulation Resistance         | 10 <sup>9</sup> M ohms                              | 100V DC                                                                                                |
| 2.Withstanding Voltage          | No flashover or insulation breakdown.               | 1000V AC (insulation displacement, crimping type: 650V AC) /1 minute.                                  |
| 3.Contact Resistance            | 20m ohms max.                                       | 0.1A                                                                                                   |
| 4.Vibration                     | No electrical discontinuity of 10μs 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 : 10 <sup>9</sup> M ohms min. | 96 hours at temperature of 40℃ and humidity of 90% to 95%                                              |
| 6.Temperature Cycle             | No damage, cracks, or parts looseness.              | (-65℃ : 30 minutes→15 to 35℃: 5 minutes max.→<br>125℃ : 30 minutes→15 to 35℃: 5 minutes max.) 5 cycles |
| 7.Durability (Mating/un-mating) | Contact resistance : 20m ohms max.                  | 500 cycles                                                                                             |
| 8.Resistance to Soldering heat  | No deformation of components affecting performance. | Manual soldering: 300℃ 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.  
 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

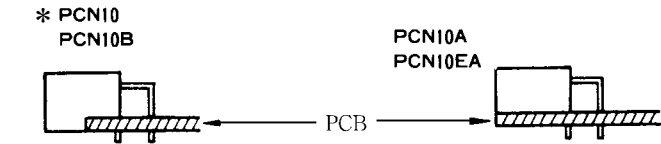
| Parts     |            | Material     | Finish                    | Remarks |
|-----------|------------|--------------|---------------------------|---------|
| Insulator |            | PBT          | Gray                      | UL94V-0 |
| Contact   | Pin header | Brass        | Contact area: Gold plated | ———     |
|           | Receptacle | Copper alloy | Remainer: Tin plated      | ———     |

## Ordering Information

●PCN 10 Series

**PCN10**   **A**   **-**   **\***   **P**   **-**   **2.54**   **DS**  
                   ①                   ②                   ③                   ④                   ⑤                   ⑥

|                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ① Series Name : PCN10                                                                                                                                                                                                                                                                                                                                                           | ③ Number of contacts: 2-row : 16, 20, 24, 32, 44, 50, 64, 90, 100<br>3-row : 48, 96, 144<br>4-row : 128                                                                                                               |
| ② Blank }<br>A } mold type (as listed below)<br>B }<br>C : Flux prevention type (DSA only)<br>D : Rack installation type<br>EA : With Board prefixed lock pin<br>H : Stacking height 35mm type<br>HA : Stacking height 30mm type<br>HB : Stacking height 25mm type<br>HC : Stacking height 45mm type<br>HD : Stacking height 40mm type<br>MC : Circuit Protection function type | ④ Connector type : P : Pin header<br>: S : Receptacle                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                 | ⑤ Contact pitch : 2.54mm                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                 | ⑥ Contact type<br>DS : Right angle through hole type<br>DSA : Straight through hole type<br>WA : Wrapping type (0.5tx0.7W)<br>WB : Wrapping type (0.5tx0.5W)<br>R : Insulation displacement type<br>C : Crimping type |



\* The receptacle double-row right angle type indicates the type of PCN10A type.



PCN Series Product Compliant to DIN 41612/IEC603-2 Standard

●PCN 12 Series (Plug)

**PCN12**   **A** - **\***   **P** - **2.54**   **DS**

①   ②   ③   ④   ⑤   ⑥

|                                                                                                                  |                                                                                           |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| ① Series name : PCN12                                                                                            | ③ Number of contacts : 2-row: 10, 16, 20, 24, 28, 32, 44,<br>50, 64, 90, 100<br>3-row: 96 |
| ② No symbol : DIN standard type C (96 Contacts)<br>A : Original type<br>E-EA : With board prefixed lock pin type | ④ P : Plug                                                                                |
|                                                                                                                  | ⑤ Contact pitch : 2.54mm                                                                  |
|                                                                                                                  | ⑥ Contact type : DS: Right angle through hole type                                        |

●PCN 12E-\*S-2.54 DSA(Socket)

**PCN12**   **E** - **\***   **S** - **2.54**   **DSA**

①   ②   ③   ④   ⑤   ⑥

|                                                                                       |                                                  |
|---------------------------------------------------------------------------------------|--------------------------------------------------|
| ① Series name : PCN12                                                                 | ④ S : Socket                                     |
| ② No symbol : Standard type<br>E : With board prefixed lock pin type                  | ⑤ Contact pitch : 2.54mm                         |
| ③ Number of contacts : 2-row: 10, 16, 20, 28, 32, 44, 50,<br>64, 90, 100<br>3-row: 96 | ⑥ Contact type : DSA: Straight through hole type |

●PCN 13E-\*S-2.54 DSA (Socket)

**PCN13**   **E** - **\***   **S** - **2.54**   **DSA**

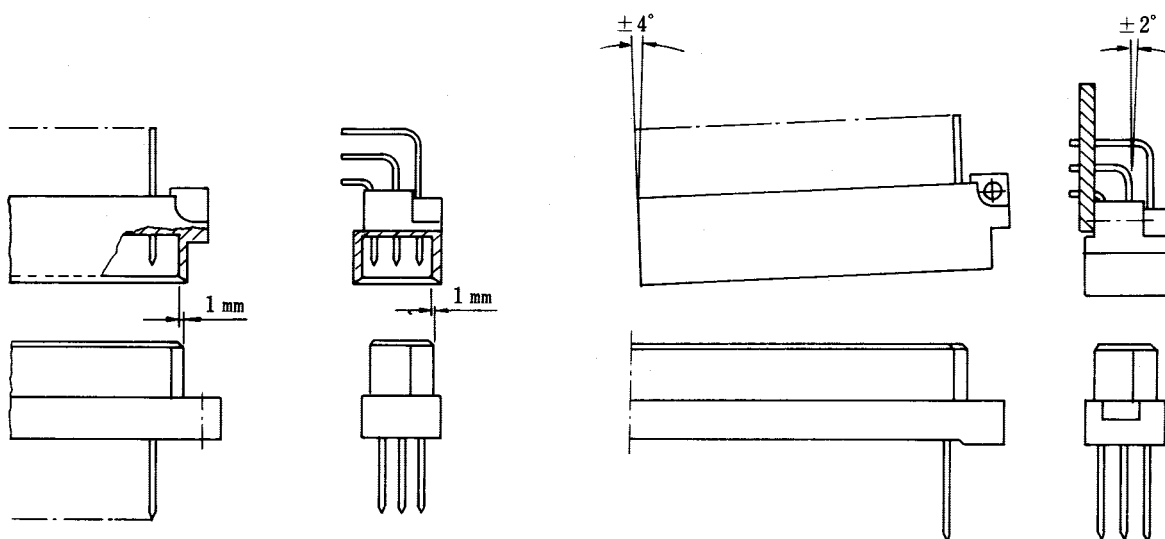
①   ②   ③   ④   ⑤   ⑥

|                                                                                           |                                                                                          |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| ① Series name : PCN13                                                                     | ④ S : Socket                                                                             |
| ② No symbol : Standard type<br>E : With board prefixed easy pin type                      | ⑤ Contact pitch : 2.54mm                                                                 |
| ③ Number of contacts : 2-row: 10, 16, 20, 30, 32, 44, 50,<br>64, 90, 100<br>3-row: 48, 96 | ⑥ Contact style : DS: Right angle through hole type<br>: DSA: Straight through hole type |

\*PCN13 series are only socket type.  
 PCN10 and 12 series are mating connectors.

## ◆DIN Connector Mating Condition

DIN connectors of Hirose should be used under conditions as illustrated below.



## ◆ Contact numbers

According to the inter-combination with DIN standard type C (type B) and type R (type Q), the contact numbers and row numbers represent contact No. (No.1 to 32) and row No. (a, b, c).

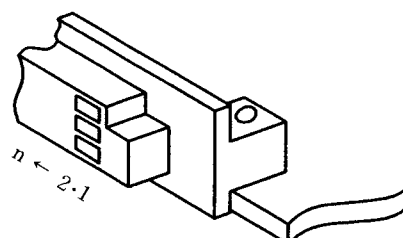
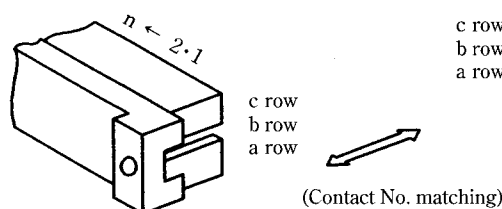
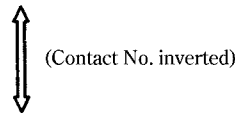
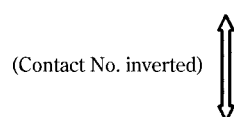
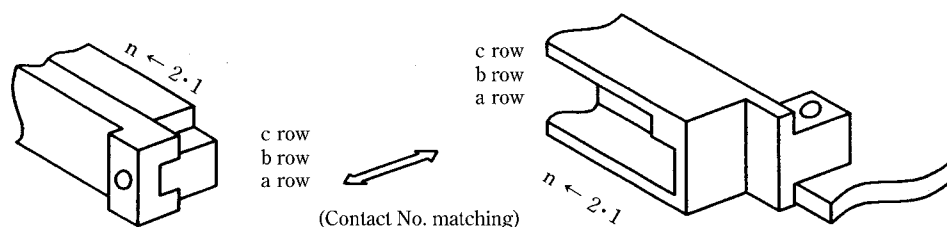
- DIN standard type C and type R represent the 3-row 96 contacts type, including 32 contacts in single-row.
- DIN standard type B and type Q represent the 2-row 64 contacts type, including 32 contacts in single-row.

### ① Receptacle straight type

Type C (Type B)

### ② Pin header right angle type

Type C (Type B)



### ③ Pin header straight type

Type R (Type Q)

### ④ Receptacle right angle type

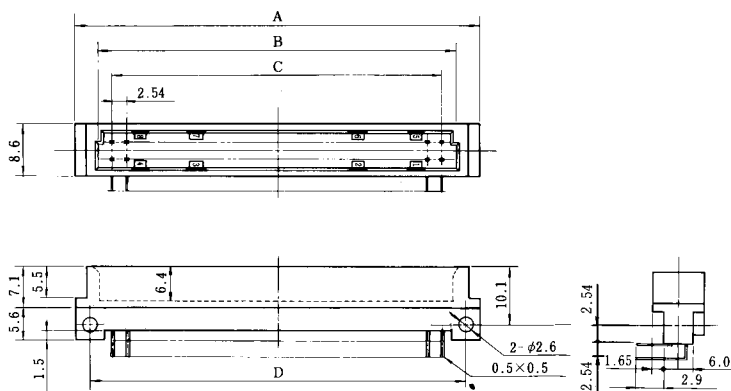
Type R (Type Q)

Note: The DIN connector is basically standardized in combination with straight and right angle types. As shown above in illustrationss;

The contact numbers is matched in combination with (1)-(2) and (3)-(4), while the contact numbers are inverted in combination with (1)-(2) and (3)-(4).

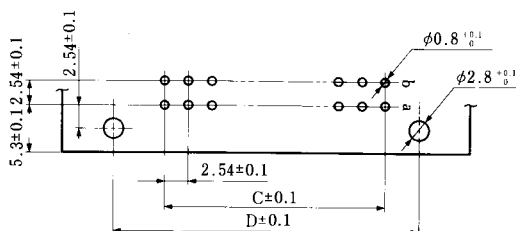
## PCN10 Series

### Pin Header: 2-row Right Angle Type (DIN standard type B)



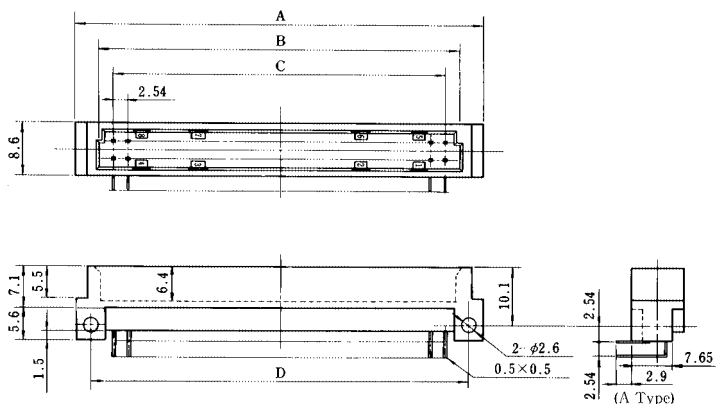
Unit:mm

#### PCB mounting pattern



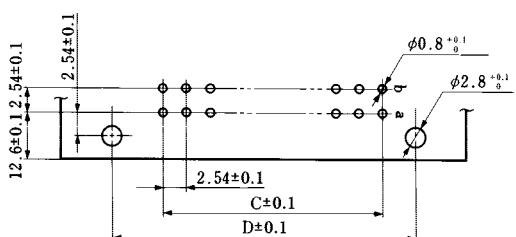
| Part Number           | CL No.          | Number of Contacts | A      | B      | C      | D      | RoHS |
|-----------------------|-----------------|--------------------|--------|--------|--------|--------|------|
| PCN10- 16P-2.54DS(72) | CL583-0230-9-72 | 16                 | 33.04  | 24.39  | 17.78  | 27.94  | YES  |
| PCN10- 20P-2.54DS(72) | CL583-0077-3-72 | 20                 | 38.12  | 29.47  | 22.86  | 33.02  |      |
| PCN10- 32P-2.54DS(72) | CL583-0015-6-72 | 32                 | 53.36  | 44.71  | 38.1   | 48.26  |      |
| PCN10- 44P-2.54DS(72) | CL583-0038-1-72 | 44                 | 68.6   | 59.95  | 53.34  | 63.5   |      |
| PCN10- 50P-2.54DS(72) | CL583-0016-9-72 | 50                 | 76.22  | 67.57  | 60.96  | 71.12  |      |
| PCN10- 64P-2.54DS(72) | CL583-0017-1-72 | 64                 | 94     | 85.35  | 78.74  | 88.9   |      |
| PCN10- 90P-2.54DS(72) | CL583-0018-4-72 | 90                 | 127.02 | 118.37 | 111.76 | 121.92 |      |
| PCN10-100P-2.54DS(72) | CL583-0113-5-72 | 100                | 139.72 | 131.07 | 124.46 | 134.62 |      |

### Pin Header: 2-row Right Angle Type



Unit:mm

#### PCB mounting pattern



| Part Number            | CL No.          | Number of Contacts | A      | B      | C      | D      | RoHS |
|------------------------|-----------------|--------------------|--------|--------|--------|--------|------|
| PCN10A- 16P-2.54DS(72) | CL583-0231-1-72 | 16                 | 33.04  | 24.39  | 17.78  | 27.94  | YES  |
| PCN10A- 20P-2.54DS(72) | CL583-0078-6-72 | 20                 | 38.12  | 29.47  | 22.86  | 33.02  |      |
| PCN10A- 32P-2.54DS(72) | CL583-0011-5-72 | 32                 | 53.36  | 44.71  | 38.1   | 48.26  |      |
| PCN10A- 44P-2.54DS(72) | CL583-0039-4-72 | 44                 | 68.6   | 59.95  | 53.34  | 63.5   |      |
| PCN10A- 50P-2.54DS(72) | CL583-0012-8-72 | 50                 | 76.22  | 67.57  | 60.96  | 71.12  |      |
| PCN10A- 64P-2.54DS(72) | CL583-0013-0-72 | 64                 | 94     | 85.35  | 78.74  | 88.9   |      |
| PCN10A- 90P-2.54DS(72) | CL583-0014-3-72 | 90                 | 127.02 | 118.37 | 111.76 | 121.92 |      |
| PCN10A-100P-2.54DS(72) | CL583-0114-8-72 | 100                | 139.72 | 131.07 | 124.46 | 134.62 |      |

## PCN Series Product Compliant to DIN41612/IEC603-2 Standard

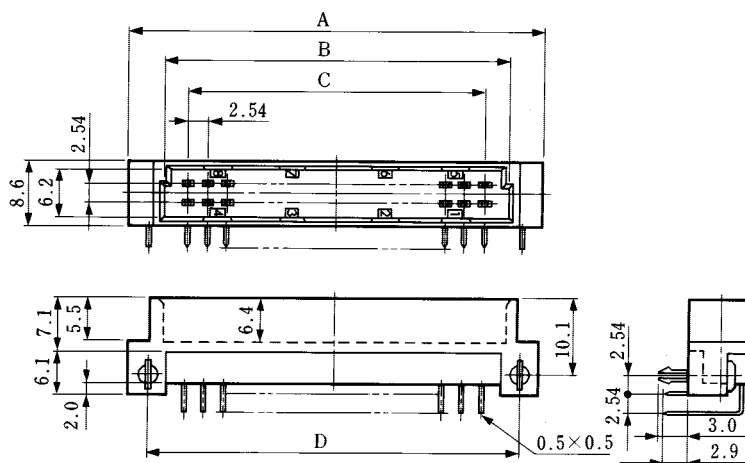
### ■Pin Header: 2-row Right Angle Type

#### ●With Board prefixed lock pin



PCN10EA\*P-2.54DS(72)

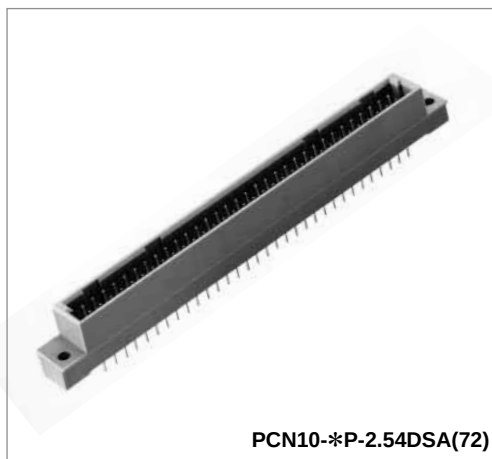
- The PCB mounting pattern is equivalent to PCN10A\*P-2.54DS. (Refer to page A19.)



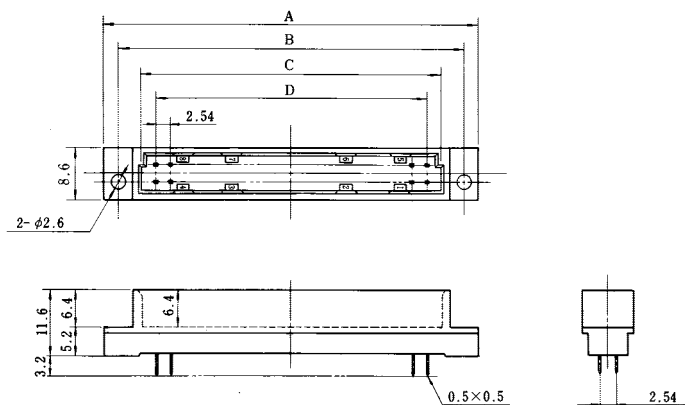
Unit:mm

| Part Number             | CL No.          | Number of Contacts | A      | B      | C      | D      | RoHS |
|-------------------------|-----------------|--------------------|--------|--------|--------|--------|------|
| PCN10EA- 16P-2.54DS(72) | CL583-0256-2-72 | 16                 | 33.04  | 24.39  | 17.78  | 27.94  | YES  |
| PCN10EA- 20P-2.54DS(72) | CL583-0181-5-72 | 20                 | 38.12  | 29.47  | 22.86  | 33.02  |      |
| PCN10EA- 32P-2.54DS(72) | CL583-0182-8-72 | 32                 | 53.36  | 44.71  | 38.1   | 48.26  |      |
| PCN10EA- 44P-2.54DS(72) | CL583-0183-0-72 | 44                 | 68.6   | 59.95  | 53.34  | 63.5   |      |
| PCN10EA- 50P-2.54DS(72) | CL583-0184-3-72 | 50                 | 76.22  | 67.57  | 60.96  | 71.12  |      |
| PCN10EA- 64P-2.54DS(72) | CL583-0185-6-72 | 64                 | 94     | 85.35  | 78.74  | 88.9   |      |
| PCN10EA- 90P-2.54DS(72) | CL583-0186-9-72 | 90                 | 127.02 | 118.37 | 111.76 | 121.92 |      |
| PCN10EA-100P-2.54DS(72) | CL583-0187-1-72 | 100                | 139.72 | 131.07 | 124.46 | 134.62 |      |

### ■Pin Header: 2-row Straight Type



PCN10-\*P-2.54DSA(72)

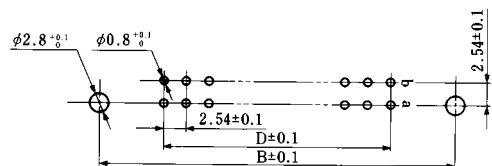


\*Type Q differs in the outer dimensions and PCB mounting pattern.

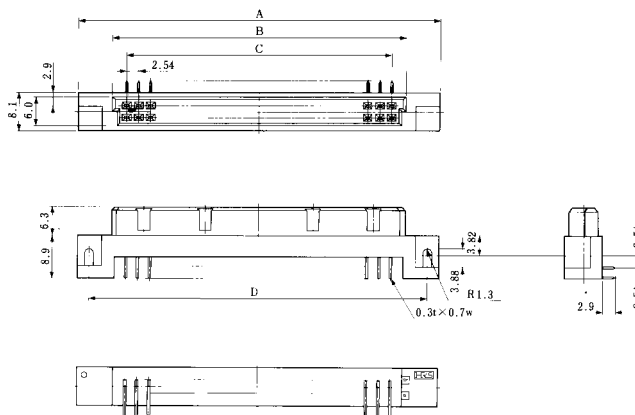
Unit:mm

| Part Number            | CL No.          | Number of Contacts | A     | B     | C      | D      | RoHS |
|------------------------|-----------------|--------------------|-------|-------|--------|--------|------|
| PCN10- 20P-2.54DSA(72) | CL583-0139-9-72 | 20                 | 43.3  | 38.1  | 29.47  | 22.86  | YES  |
| PCN10- 32P-2.54DSA(72) | CL583-0007-8-72 | 32                 | 58.54 | 53.34 | 44.71  | 38.1   |      |
| PCN10- 44P-2.54DSA(72) | CL583-0488-8-72 | 44                 | 73.78 | 68.58 | 59.95  | 53.54  |      |
| PCN10- 50P-2.54DSA(72) | CL583-0008-0-72 | 50                 | 81.4  | 76.2  | 67.57  | 60.96  |      |
| PCN10- 64P-2.54DSA(72) | CL583-0009-3-72 | 64                 | 99.18 | 93.98 | 85.35  | 78.74  |      |
| PCN10- 90P-2.54DSA(72) | CL583-0010-2-72 | 90                 | 132.2 | 127   | 118.37 | 111.76 |      |
| PCN10-100P-2.54DSA(72) | CL583-0251-9-72 | 100                | 144.9 | 139.7 | 131.07 | 124.46 |      |

#### ◆PCB mounting pattern

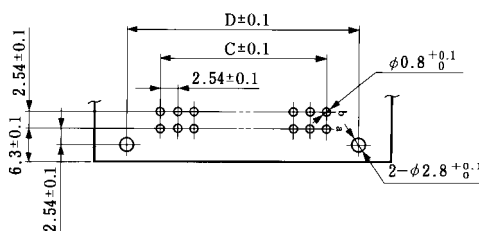


## ■Receptacle: 2-row Right Angle Type



\*Type Q differs in the external size and PCB mounting pattern.

## ◆PCB mounting pattern

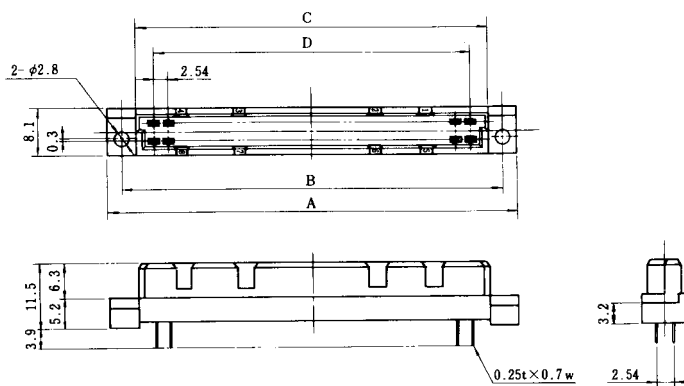
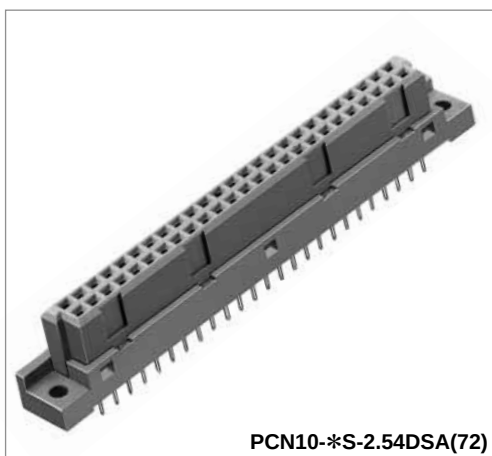


Note

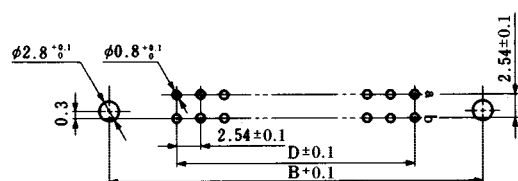
| Unit:mm                |                 |                    |       |        |        |       |      |
|------------------------|-----------------|--------------------|-------|--------|--------|-------|------|
| Part Number            | CL No.          | Number of Contacts | A     | B      | C      | D     | RoHS |
| PCN10C- 20S-2.54DS(72) | CL583-0201-0-72 | 20                 | 43.1  | 29.12  | 22.86  | 38.1  | YES  |
| PCN10C- 32S-2.54DS(72) | CL583-0202-3-72 | 32                 | 58.34 | 44.36  | 38.1   | 53.34 |      |
| PCN10C- 44S-2.54DS(72) | CL583-0052-2-72 | 44                 | 73.58 | 59.6   | 53.34  | 68.58 |      |
| PCN10C- 50S-2.54DS(72) | CL583-0168-7-72 | 50                 | 81.2  | 67.22  | 60.96  | 76.2  |      |
| PCN10C- 60S-2.54DS(72) | CL583-0174-0-72 | 60                 | 93.9  | 79.92  | 73.66  | 88.9  |      |
| PCN10C- 64S-2.54DS(72) | CL583-0203-6-72 | 64                 | 98.98 | 85     | 78.74  | 93.98 |      |
| PCN10C- 90S-2.54DS(72) | CL583-0204-9-72 | 90                 | 132   | 118.02 | 111.76 | 127   |      |
| PCN10C-100S-2.54DS(72) | CL583-0178-0-72 | 100                | 144.7 | 130.72 | 124.46 | 139.7 |      |

Note: DIN standard type Q (Reverse type of type B) indicates PCN10B-64S-2.54DS(72).

## ■Receptacle: 2-row Straight Type (DIN standard type B)



## ◆PCB mounting pattern

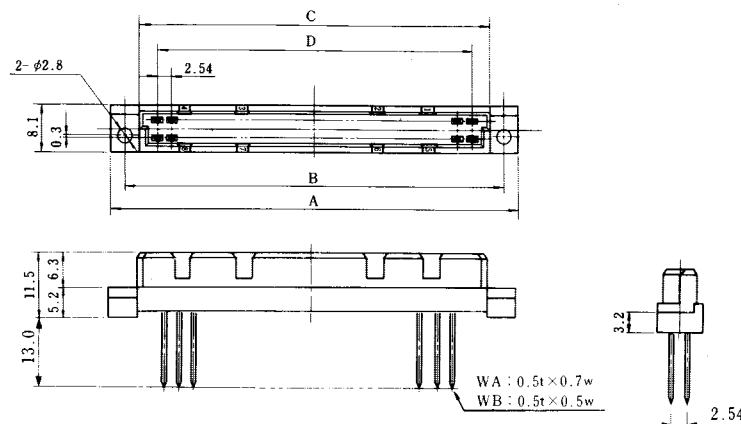


Unit:mm

| Part Number           | CL No.          | Number of Contacts | A     | B     | C     | D     | RoHS |
|-----------------------|-----------------|--------------------|-------|-------|-------|-------|------|
| PCN10-32S-2.54DSA(72) | CL583-0019-7-72 | 32                 | 54.36 | 49.36 | 44.36 | 38.1  | YES  |
| PCN10-50S-2.54DSA(72) | CL583-0020-6-72 | 50                 | 77.22 | 72.22 | 67.22 | 60.96 |      |
| PCN10-64S-2.54DSA(72) | CL583-0021-9-72 | 64                 | 95    | 90    | 85    | 78.74 |      |

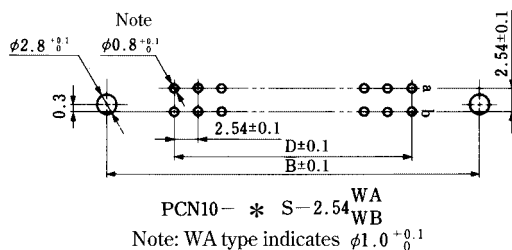
PCN Series Product Compliant to DIN 41612/EC603-2 Standard

## ■Receptacle: 2-row Wrapping Type (DIN standard type B)



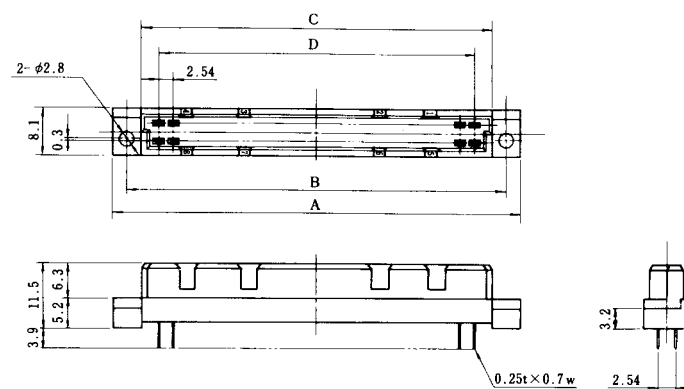
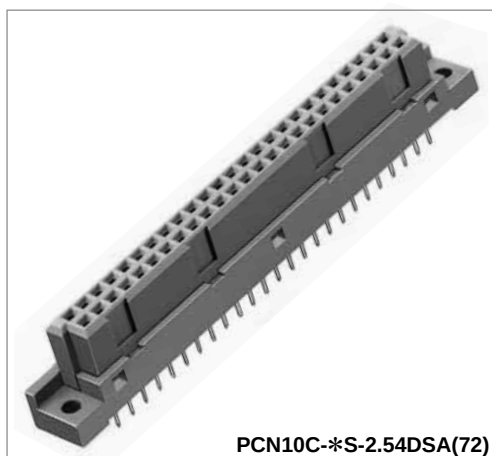
Unit:mm

### ◆PCB mounting pattern



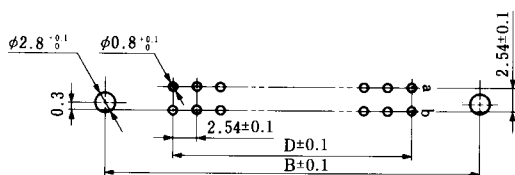
| Part Number          | CL No.          | Number of Contacts | A     | B     | C     | D     | RoHS |
|----------------------|-----------------|--------------------|-------|-------|-------|-------|------|
| PCN10-32S-2.54WA(72) | CL583-0107-2-72 | 32                 | 54.36 | 49.36 | 44.36 | 38.1  | YES  |
| PCN10-32S-2.54WB(72) | CL583-0067-0-72 | 32                 | 54.36 | 49.36 | 44.36 | 38.1  |      |
| PCN10-50S-2.54WA(72) | CL583-0108-5-72 | 50                 | 77.22 | 72.22 | 67.22 | 60.96 |      |
| PCN10-50S-2.54WB(72) | CL583-0068-2-72 | 50                 | 77.22 | 72.22 | 67.22 | 60.96 |      |
| PCN10-64S-2.54WA(72) | CL583-0109-8-72 | 64                 | 95    | 90    | 85    | 78.74 |      |
| PCN10-64S-2.54WB(72) | CL583-0069-5-72 | 64                 | 95    | 90    | 85    | 78.74 |      |

## ■Flux Prevention Type (DIN standard type B)



Unit:mm

### ◆PCB mounting pattern

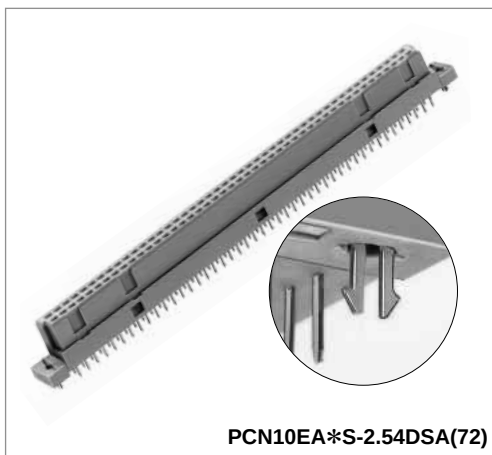


| Part Number             | CL No.          | Number of Contacts | A      | B      | C      | D      | RoHS |
|-------------------------|-----------------|--------------------|--------|--------|--------|--------|------|
| PCN10C- 16S-2.54DSA(72) | CL583-0226-1-72 | 16                 | 34.04  | 29.04  | 24.04  | 17.78  | YES  |
| PCN10C- 20S-2.54DSA(72) | CL583-0079-9-72 | 20                 | 39.12  | 34.12  | 29.12  | 22.86  |      |
| PCN10C- 32S-2.54DSA(72) | CL583-0033-8-72 | 32                 | 54.36  | 49.36  | 44.36  | 38.1   |      |
| PCN10C- 44S-2.54DSA(72) | CL583-0034-0-72 | 44                 | 69.6   | 64.6   | 59.6   | 53.34  |      |
| PCN10C- 50S-2.54DSA(72) | CL583-0035-3-72 | 50                 | 77.22  | 72.22  | 67.22  | 60.96  |      |
| PCN10C- 64S-2.54DSA(72) | CL583-0036-6-72 | 64                 | 95     | 90     | 85     | 78.74  |      |
| PCN10C- 90S-2.54DSA(72) | CL583-0037-9-72 | 90                 | 128.02 | 123.02 | 118.02 | 111.76 |      |
| PCN10C-100S-2.54DSA(72) | CL583-0112-2-72 | 100                | 140.72 | 135.72 | 130.72 | 124.46 |      |

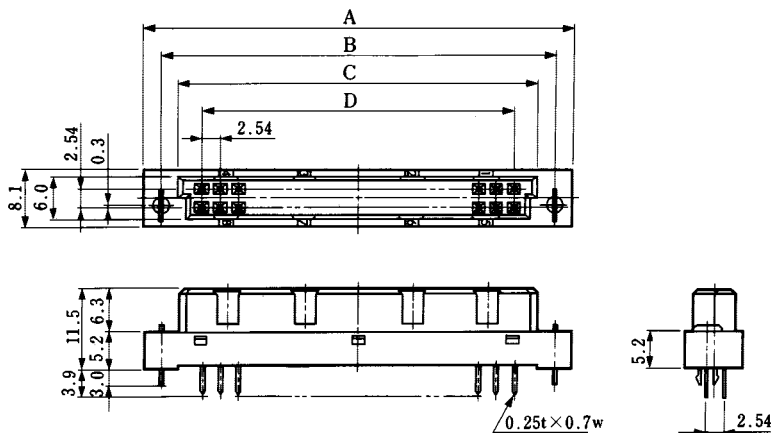


## ■Board Prefixed Lock Pin Type (DIN standard type B)

### ●Flux prevention type



PCN10EA\*S-2.54DSA(72)

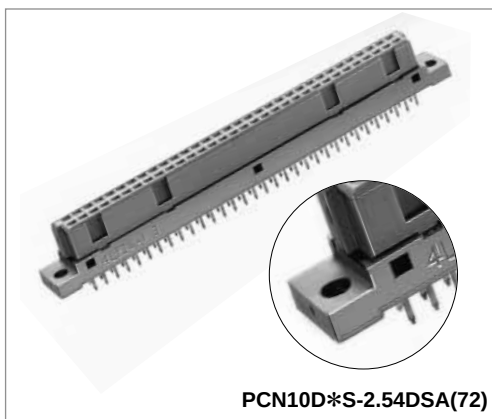


- The PCB mounting pattern is equivalent to PCN10-\*P-2.54DSA and PCN10C-\*P-2.54DSA.  
 (Refer to catalog page A21 and A22.)

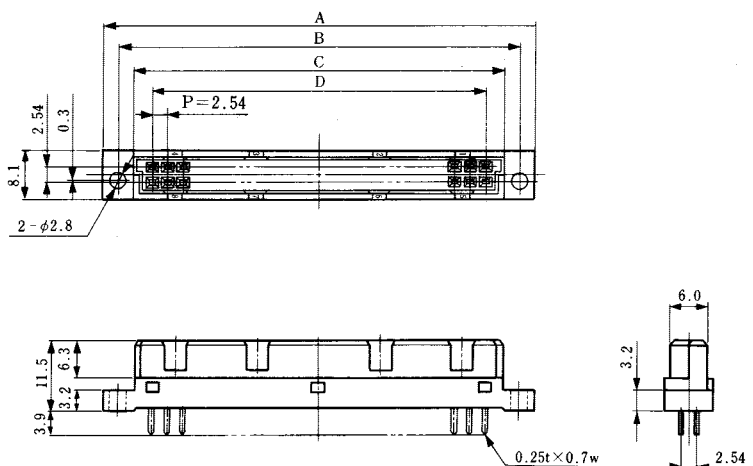
Unit:mm

| Part Number              | CL No.          | Number of Contacts | A      | B      | C      | D      | RoHS |
|--------------------------|-----------------|--------------------|--------|--------|--------|--------|------|
| PCN10EA- 20S-2.54DSA(72) | CL583-0188-4-72 | 20                 | 39.12  | 34.12  | 29.12  | 22.86  | YES  |
| PCN10EA- 32S-2.54DSA(72) | CL583-0189-7-72 | 32                 | 54.36  | 49.36  | 44.36  | 38.1   |      |
| PCN10EA- 44S-2.54DSA(72) | CL583-0190-6-72 | 44                 | 69.6   | 64.6   | 59.6   | 53.34  |      |
| PCN10EA- 50S-2.54DSA(72) | CL583-0191-9-72 | 50                 | 77.22  | 72.22  | 67.22  | 60.96  |      |
| PCN10EA- 64S-2.54DSA(72) | CL583-0192-1-72 | 64                 | 95     | 90     | 85     | 78.74  |      |
| PCN10EA- 90S-2.54DSA(72) | CL583-0193-4-72 | 90                 | 128.02 | 123.02 | 118.02 | 111.76 |      |
| PCN10EA-100S-2.54DSA(72) | CL583-0194-7-72 | 100                | 140.72 | 135.72 | 130.72 | 124.46 |      |

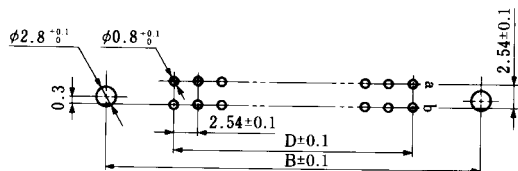
## ■Receptacle: 2-row Straight Type (Rack installation type)



PCN10D\*S-2.54DSA(72)



### ◆PCB mounting pattern



Unit:mm

| Part Number            | CL No.          | Number of Contacts | A      | B      | C      | D      | RoHS |
|------------------------|-----------------|--------------------|--------|--------|--------|--------|------|
| PCN10D-50S-2.54DSA(72) | CL583-0055-0-72 | 50                 | 77.22  | 72.22  | 67.22  | 60.96  | YES  |
| PCN10D-64S-2.54DSA(72) | CL583-0056-3-72 | 64                 | 95     | 90     | 85     | 78.74  |      |
| PCN10D-90S-2.54DSA(72) | CL583-0057-6-72 | 90                 | 128.02 | 123.02 | 118.02 | 111.76 |      |

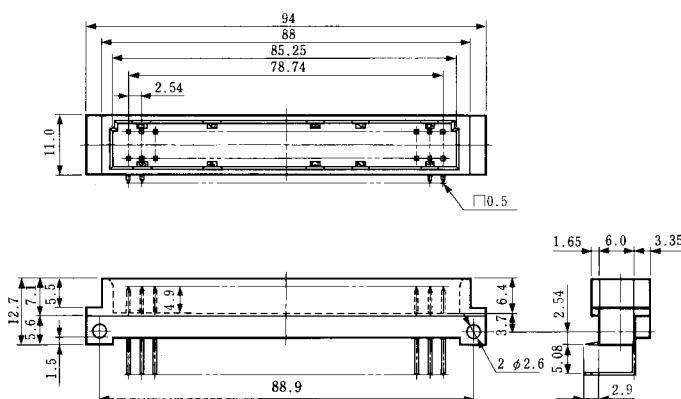


## ■Pin Header: Right Angle Type

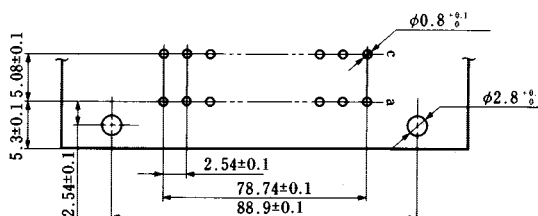
PCN10-64ACP-2.54DS(72)  
 CL583-0046-0-72



RoHS Compliant



## ◆PCB mounting pattern

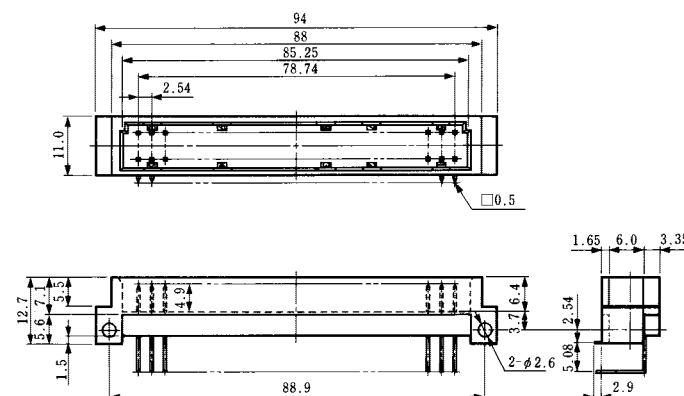


## ■Pin Header: Right Angle Type

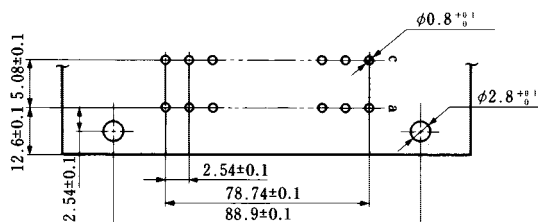
PCN10A-64ACP-2.54DS(72)  
 CL583-0032-5-72



RoHS Compliant



## ◆PCB mounting pattern



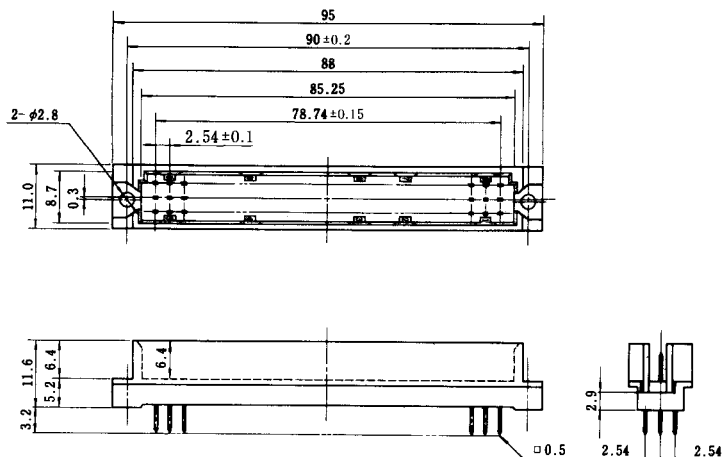
PCN Series Product Compliant to DIN41612/IEC603-2 Standard

## ■Pin Header: 3-row Straight Type (DIN standard type R)

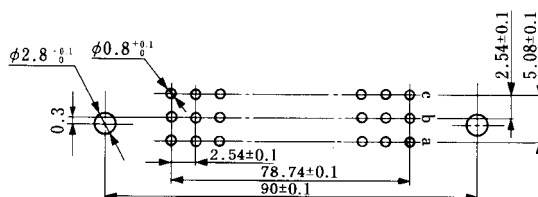
PCN10-96P-2.54DSA(72)  
CL583-0002-4-72



RoHS Compliant

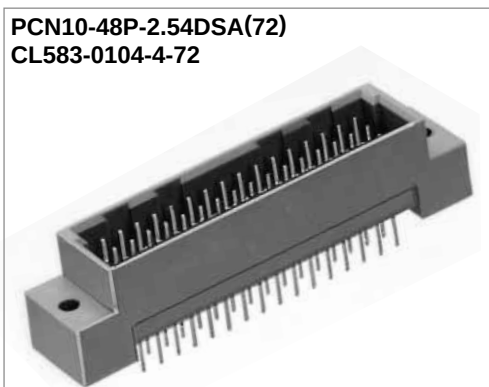


### ◆PCB mounting pattern

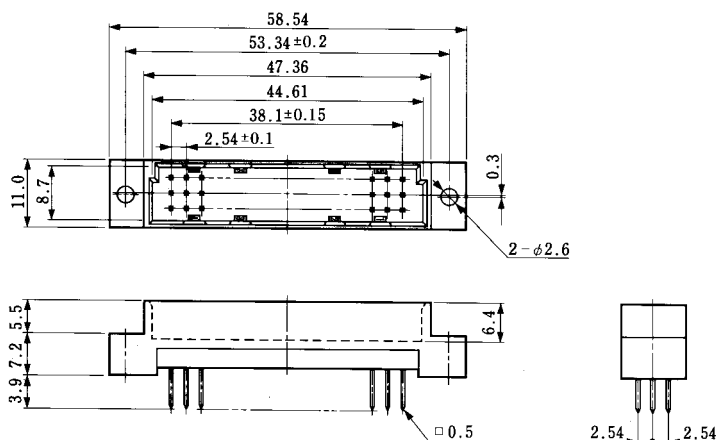


## ■Pin Header: 3-row Straight Type

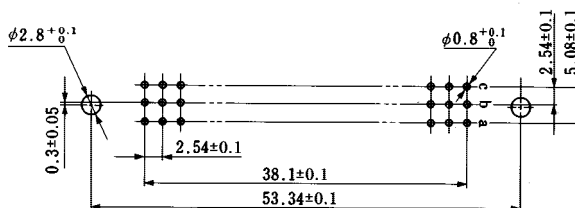
PCN10-48P-2.54DSA(72)  
CL583-0104-4-72



RoHS Compliant



### ◆PCB mounting pattern





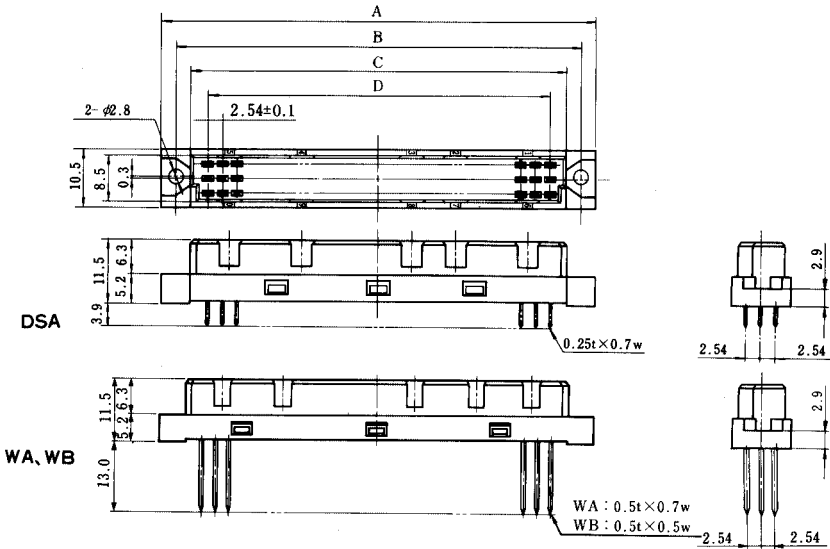
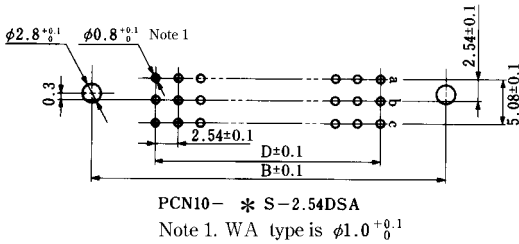
PCN Series Product Compliant to DIN 41612/IEC603-2 Standard

■Receptacle: 3-row Straight Type(DIN standard type C)



PCN10\*S-2.54DSA(72)

◆PCB mounting pattern



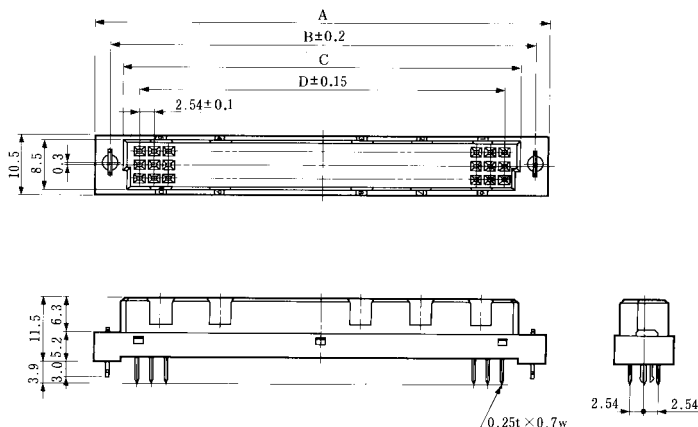
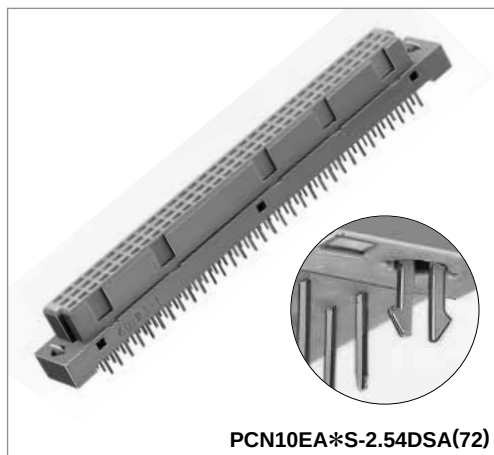
The 48 contact type contains guide key grooves at 8 points.

Unit:mm

| Part Number           | CL No.          | Number of Contacts | A     | B  | C     | D     | RoHS |
|-----------------------|-----------------|--------------------|-------|----|-------|-------|------|
| PCN10-48S-2.54DSA(72) | CL583-0065-4-72 | 48                 | 54.36 | 50 | 44.36 | 38.1  | YES  |
| PCN10-96S-2.54DSA(72) | CL583-0003-7-72 | 96                 | 95    | 90 | 85    | 78.74 |      |
| PCN10-96S-2.54WA(72)  | CL583-0085-1-72 | 96                 | 95    | 90 | 85    | 78.74 |      |
| PCN10-96S-2.54WB(72)  | CL583-0071-7-72 | 96                 | 95    | 90 | 85    | 78.74 |      |

## ■Receptacle: 3-row Straight Type(DIN standard type C)

### ●With Board prefixed lock pin



Note: The PCB mounting pattern is equivalent to  
 PCN10-\*S-2.54DSA(72).  
 (Refer to catalog page A21.)

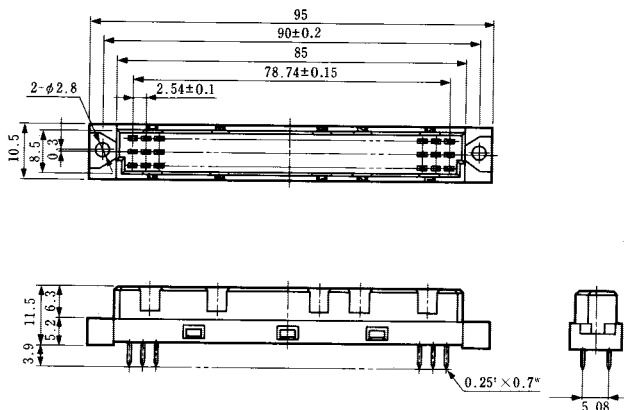
Unit:mm

| Part Number                  | CL No.          | Number of Contacts | A     | B  | C     | D     | RoHS |
|------------------------------|-----------------|--------------------|-------|----|-------|-------|------|
| PCN10EA-48S-2.54DSA(72)      | CL583-0195-0-72 | 48                 | 54.36 | 50 | 44.36 | 38.1  | YES  |
| Note PCN10EA-96S-2.54DSA(72) | CL583-0180-2-72 | 96                 | 95    | 90 | 85    | 78.74 |      |

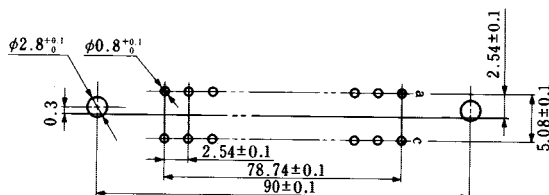
Note: Flux prevention type

## ■Receptacle: Straight Type

**PCN10-64ACS-2.54DSA(72)**  
**CL583-0044-4-72**



### ◆PCB mounting pattern



## PCN Series Product Compliant to DIN41612/IEC603-2 Standard

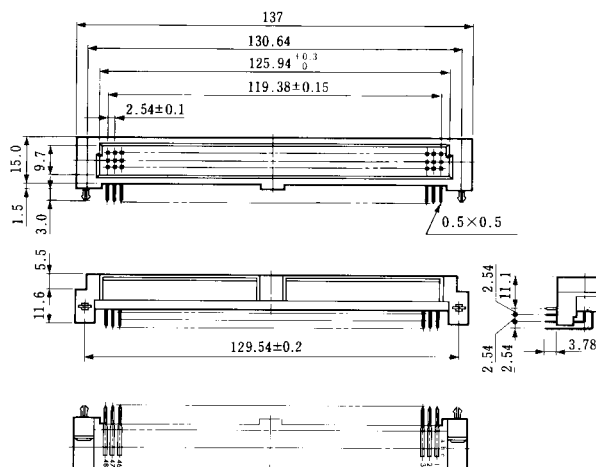
### ■Pin Header: 3-row Right Angle Type

#### ●With Board prefixed lock pin

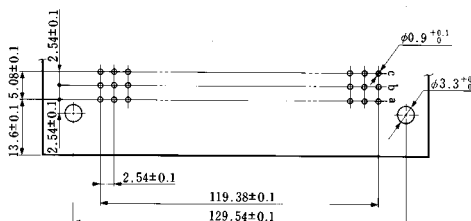
PCN10MA-144P-2.54DS(72)  
 CL583-0131-7-72



RoHS Compliant



#### ◆PCB mounting pattern



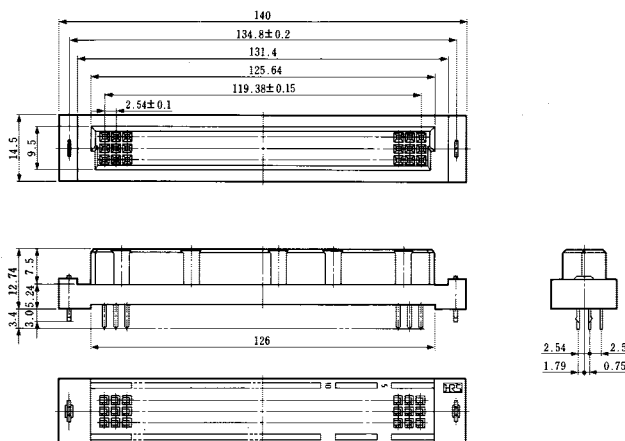
### ■Receptacle: 3-row Straight Type

#### ●Board prefixed lock pin attached

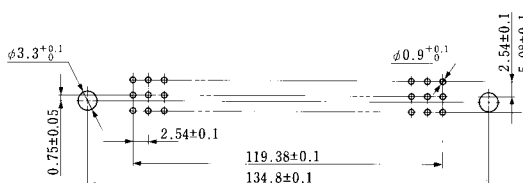
PCN10MA-144S-2.54DSA(72)  
 CL583-0130-4-72



RoHS Compliant



#### ◆PCB mounting pattern



Sequential contacts are located at 27 points up to contact No.30~38 in both rows b and c.

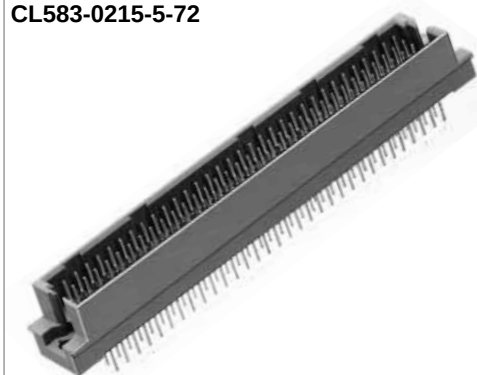




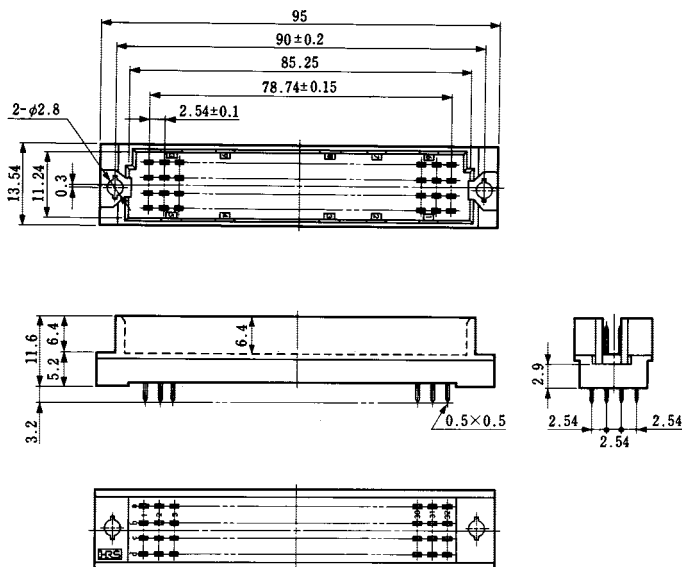
## PCN Series Product Compliant to DIN41612/IEC603-2 Standard

### Pin Header: 4-row Straight Type

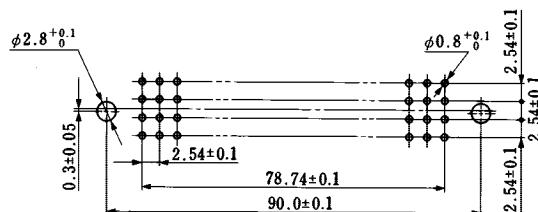
PCN10-128P-2.54DSA(72)  
CL583-0215-5-72



RoHS Compliant



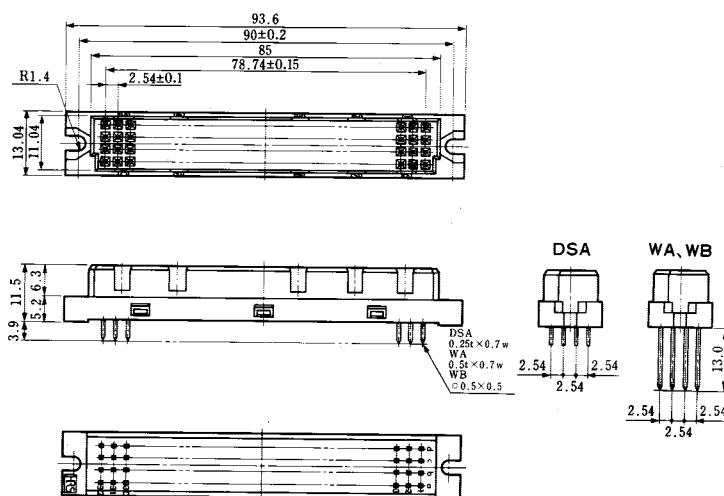
### PCB mounting pattern



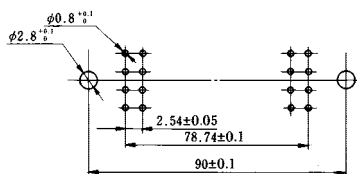
### Receptacle: 4-row Straight Type



PCN10-128S-2.54DSA(72)



### PCB mounting pattern



\* WA is φ1.75

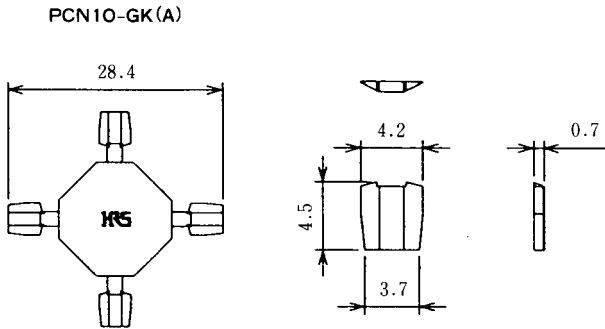
Unit:mm

| Part Number            | CL No.          | Number of Contacts | RoHS |
|------------------------|-----------------|--------------------|------|
| PCN10-128S-2.54DSA(72) | CL583-0089-2-72 | 128                | YES  |
| PCN10-128S-2.54WA(72)  | CL583-0090-1-72 | 128                |      |
| PCN10-128S-2.54WB(72)  | CL583-0091-4-72 | 128                |      |

## HRS A33

PCN Series Product Compliant to DIN 41612/IEC 603-2 Standard

■Polarizing Key



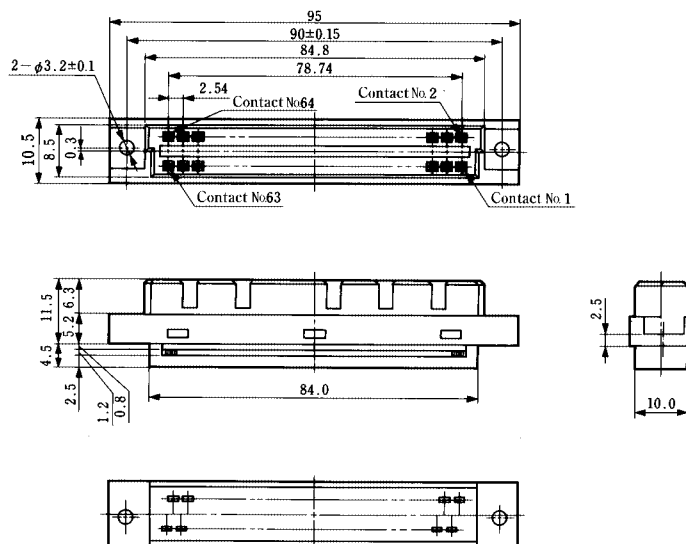
| Part Number | CL No.     | Material   | RoHS |
|-------------|------------|------------|------|
| PCN10-GK(A) | 583-0269-4 | PBT, black | YES  |

Note: Using the polarizing key prevents connector mis-insertion in the board.  
Insert the polarizing key in both connectors on the receptacle side and header side.  
Insert the polarizing key so as to hit the mold bottom.

## Ribbon Cable Connector Compliant with DIN Standard

### ■ Cable Insulation displacement Connector

PCN10-64S-2.54R(52)  
 CL583-0030-0-52



### ■ Insulation displacement Tool

● Guide plate for insulation displacement + pressing block

PCN10-GPB64  
 CL550-0168-6



● Hi-Flex connection press

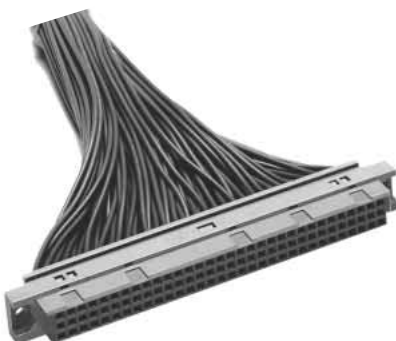


| Part Number                     | CL No.     | Height | Width | Depth | Weight |
|---------------------------------|------------|--------|-------|-------|--------|
| Hi-Flex connection press HHP502 | 550-0082-2 | 440mm  | 160mm | 350mm | 13kg   |

## Crimping Connector Compliant with DIN Standard

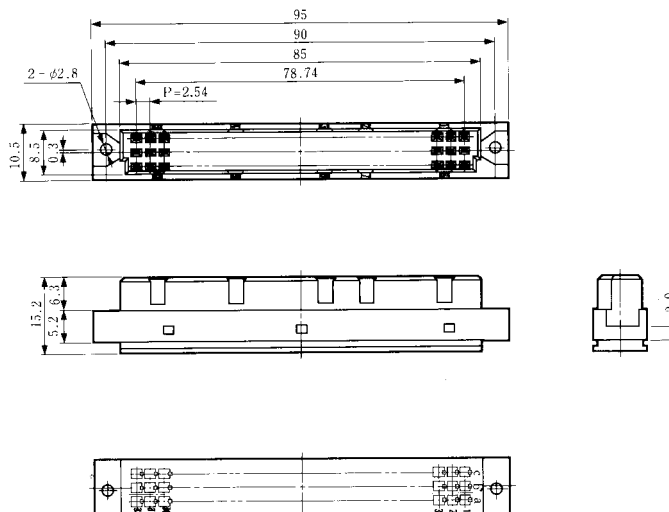
### 3-row Type

PCN10-96S-2.54C  
CL583-0100-3

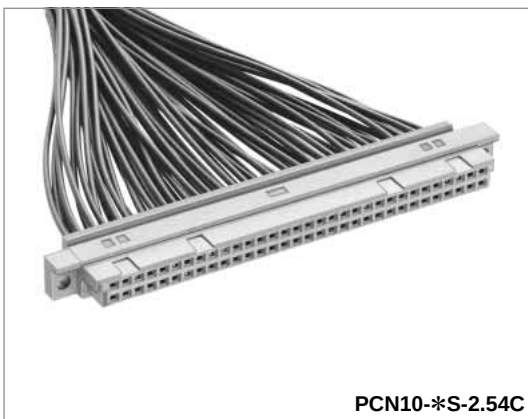


RoHS Compliant

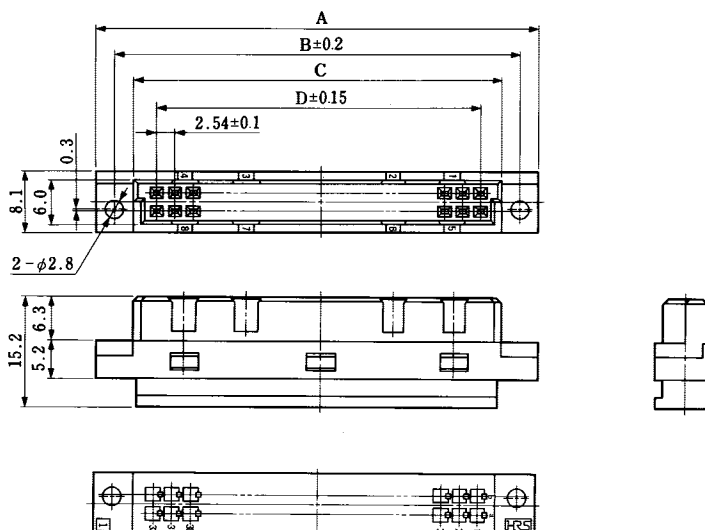
|               |         |                         |                           |
|---------------|---------|-------------------------|---------------------------|
| Current rated | 2A      | ID type                 | 1A                        |
|               |         | Crimping type           | AWG#26 2A<br>AWG#28-30 1A |
| Voltage rated | 300V AC | (Crimping type 200V AC) |                           |



### 2-row Type



PCN10-\*S-2.54C

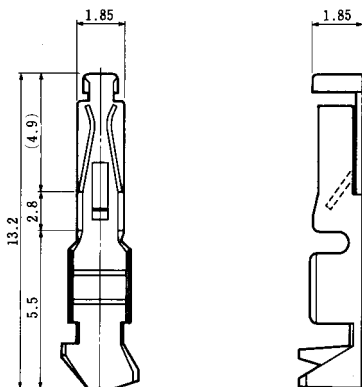


Unit:mm

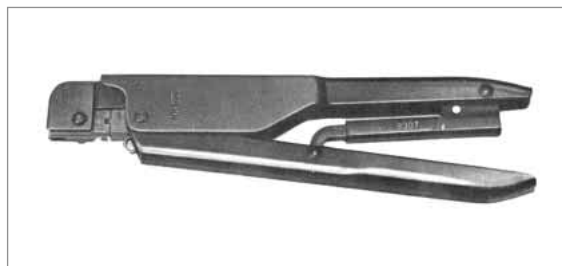
| Part Number     | CL No.       | Number of Contacts | A     | B     | C     | D     | RoHS |
|-----------------|--------------|--------------------|-------|-------|-------|-------|------|
| PCN10-20S-2.54C | CL583-0241-5 | 20                 | 39.12 | 34.12 | 29.12 | 22.86 | YES  |
| PCN10-64S-2.54C | CL583-0243-0 | 64                 | 95    | 90    | 85    | 78.74 |      |

## Manual Crimping Tool

- Crimping Contact
- PCN10-2630SC (Full Gold plated)  
CL583-0102-9 (RoHS Compliant)
- PCN10-2226SC (Selective Gold plated)  
CL583-0216-8 (RoHS Compliant)
- Crimping tool
- PCN10-TA2630HC (PCN10-2230SC)  
CL550-0163-2
- PCN10-TA2226HC (PCN10-2226SC)  
CL550-0218-2



Applicable Cable



- PCN10-2630SC: AWG#26 to #30  
100pcs per bag
- PCN10-2226SC: AWG#22 to #26  
100pcs per bag

## Automatic Crimping Tool

| Item               | Part Number       | CL No.     | Applicable Contact |
|--------------------|-------------------|------------|--------------------|
| Crimping tool unit | CM-105            | 901-0005-4 | —————              |
| Applicator         | AP105-PCN10-2226S | 901-3506-6 | PCN10-2226SCF      |
|                    | AP105-PCN10-2630S | 901-3508-1 | PCN10-2630SCF      |

## Contact Extraction Tool

| Part Number | CL No.     |
|-------------|------------|
| PCN10-PO    | 550-0282-1 |

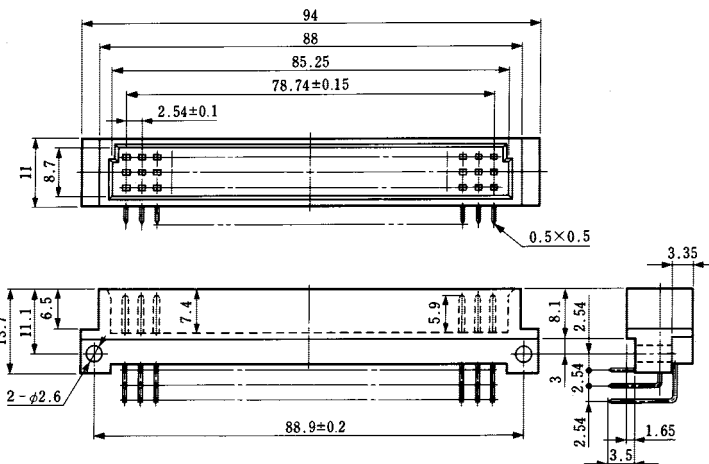
## Circuit Protection Function Type

### Pin Header: 3-row Right Angle Type

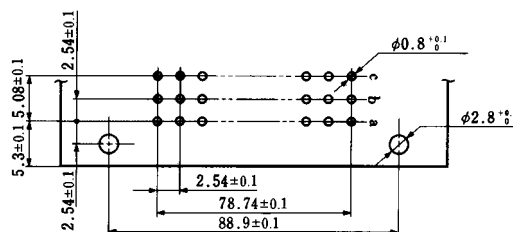
PCN10MC-96P-2.54DS(72)  
 CL583-0120-0-72



RoHS Compliant

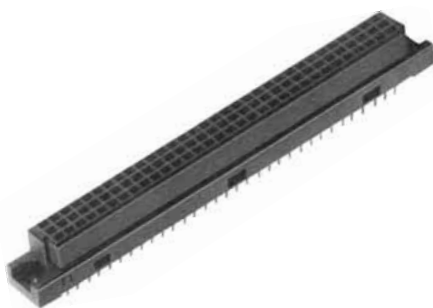


### PCB mounting pattern

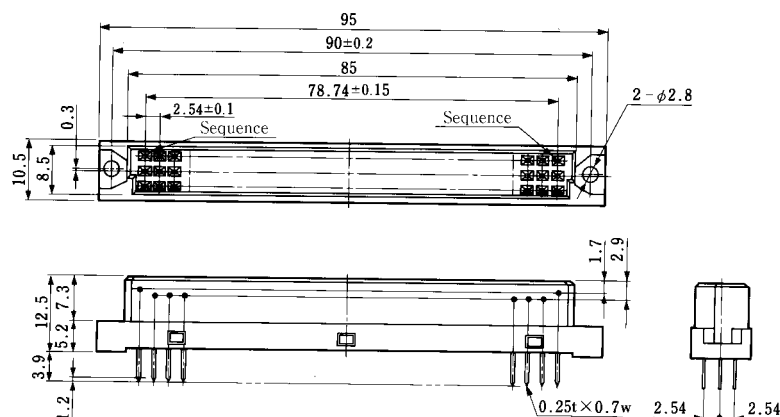


### Receptacle: 3-row Straight Type

PCN10MC-96S-2.54DSA(72)  
 CL583-0169-0-72

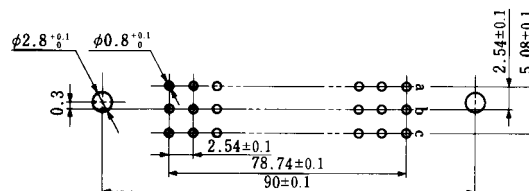


RoHS Compliant



The sequential contacts are No. 1 and No. 32 in the row a.

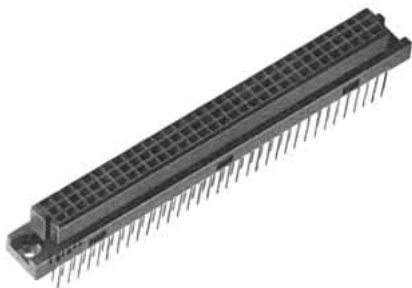
### PCB mounting pattern



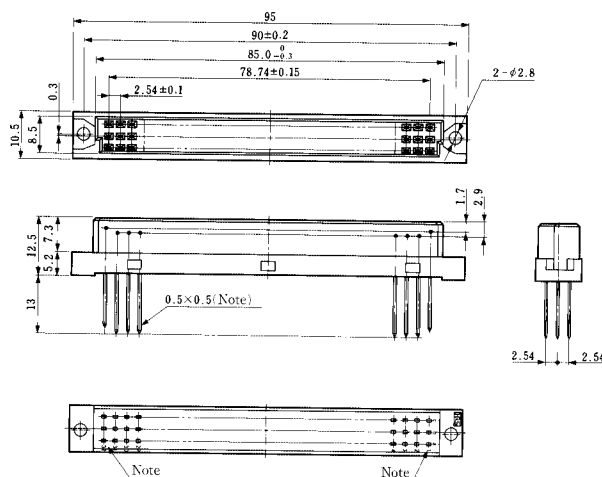


## Receptacle: 3-row Wrapping Type

PCN10MC-96S-2.54WB(72)  
 CL583-0119-1-72

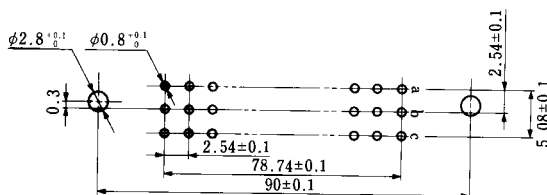


RoHS Compliant



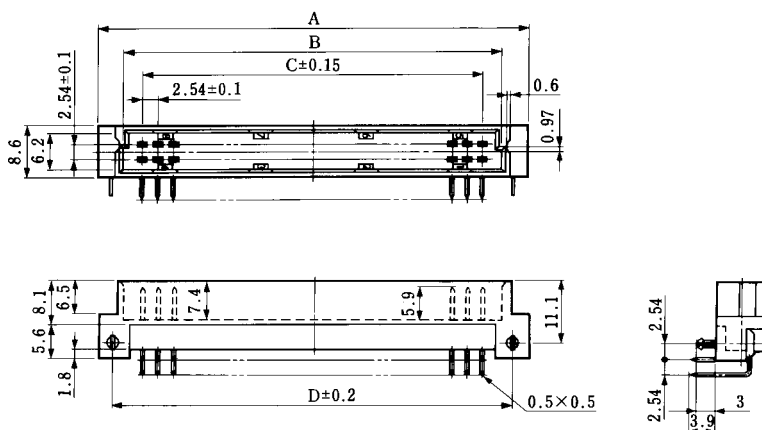
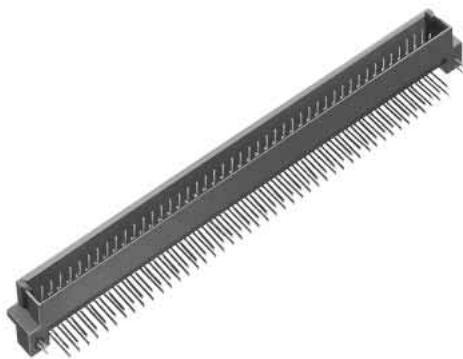
Note: The sequential contacts are No. 1 and No. 32 in row a.

### PCB mounting pattern

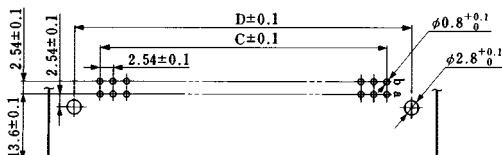


## Pin Header: 2-row Right Angle Type

PCN10MC-\*P-2.54DS(72)



### PCB mounting pattern



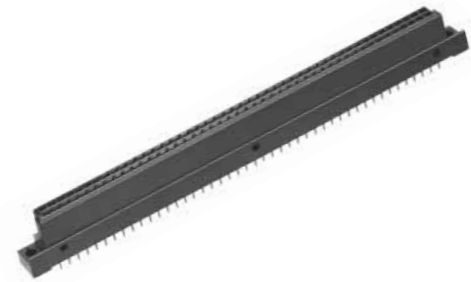
Unit:mm

| Part Number             | CL No.          | Number of Contacts | A      | B      | C      | D      | RoHS |
|-------------------------|-----------------|--------------------|--------|--------|--------|--------|------|
| PCN10MC- 64P-2.54DS(72) | CL583-0211-4-72 | 64                 | 94     | 85.35  | 78.74  | 88.9   | YES  |
| PCN10MC-100P-2.54DS(72) | CL583-0212-7-72 | 100                | 139.72 | 131.07 | 124.46 | 134.62 |      |

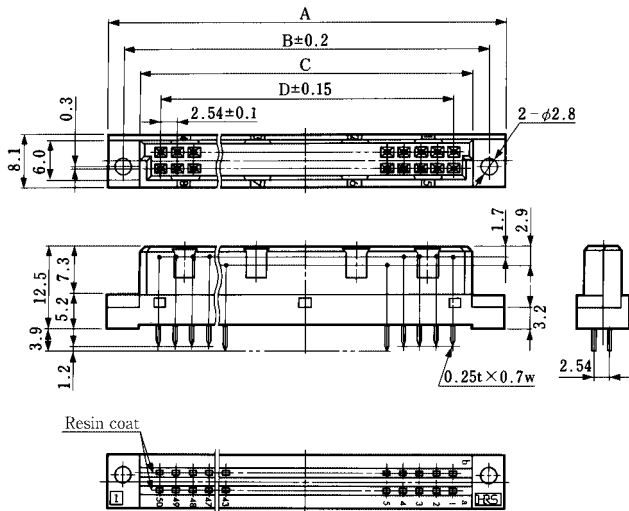
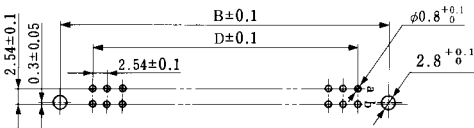
PCN Series Product Compliant to DIN 41612/EC603-2 Standard

■Receptacle: 2-row Straight Type

PCN10MC-\*S-2.54DSA(72)



◆PCB mounting pattern



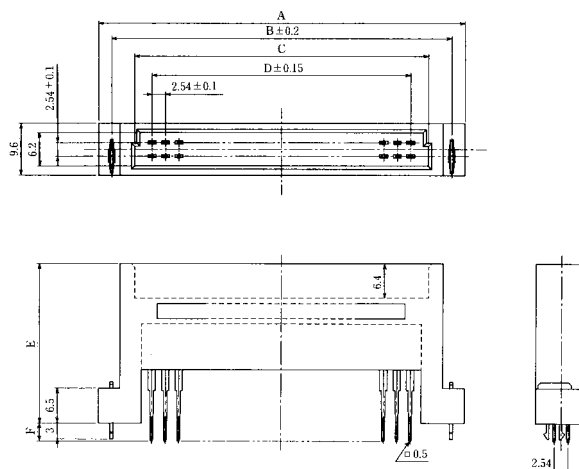
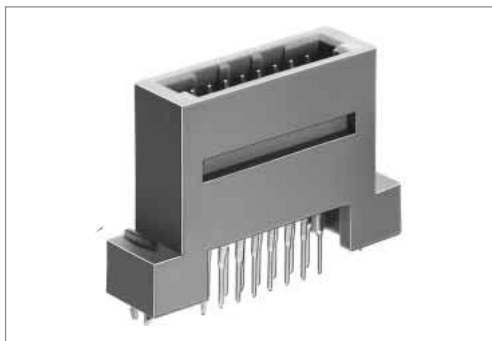
- (64 contacts): The sequential contacts are located at 27 points of 1 to 4 and 26 to 32 in both rows a and b.
- (100 contacts): The sequential contacts are located at 22 points of 1 to 4 and 44 to 50 in both rows a and b.

Unit:mm

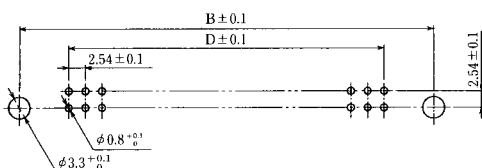
| Part Number              | CL No.          | Number of Contacts | A      | B      | C      | D      | RoHS |
|--------------------------|-----------------|--------------------|--------|--------|--------|--------|------|
| PCN10MC- 64S-2.54DSA(72) | CL583-0213-0-72 | 64                 | 95     | 90     | 85     | 78.74  | YES  |
| PCN10MC-100S-2.54DSA(72) | CL583-0214-2-72 | 100                | 140.72 | 135.72 | 130.72 | 124.46 |      |

## Stacking Connector

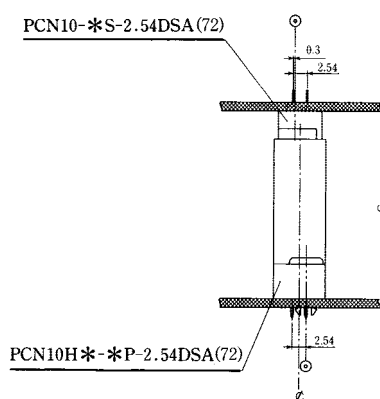
### Stacking Plug



### PCB mounting pattern



### Application Pattern



Unit: mm

| Part Number             | CL No.          | Number of Contacts | A     | B     | C     | D     | E    | F    | G  | RoHS |
|-------------------------|-----------------|--------------------|-------|-------|-------|-------|------|------|----|------|
| PCN10H- 16P-2.54DSA(72) | CL583-0227-4-72 | 16                 | 37.92 | 33.02 | 24.39 | 17.78 | 29.8 | 3.44 | 35 | YES  |
| PCN10H- 20P-2.54DSA(72) | CL583-0157-0-72 | 20                 | 43    | 38.1  | 29.47 | 22.86 |      |      |    |      |
| PCN10H- 24P-2.54DSA(72) | CL583-0425-8-72 | 24                 | 48.08 | 43.18 | 34.55 | 27.94 |      |      |    |      |
| PCN10H- 32P-2.54DSA(72) | CL583-0161-8-72 | 32                 | 58.24 | 53.34 | 44.71 | 38.1  |      |      |    |      |
| PCN10H- 44P-2.54DSA(72) | CL583-0164-6-72 | 44                 | 73.48 | 68.58 | 59.95 | 53.34 |      |      |    |      |
| PCN10H- 50P-2.54DSA(72) | CL583-0401-0-72 | 50                 | 81.1  | 76.2  | 67.57 | 60.96 | 24.8 | 3.36 | 30 |      |
| PCN10HA-16P-2.54DSA(72) | CL583-0228-7-72 | 16                 | 37.92 | 33.02 | 24.39 | 17.78 |      |      |    |      |
| PCN10HA-20P-2.54DSA(72) | CL583-0158-3-72 | 20                 | 43    | 38.1  | 29.47 | 22.86 |      |      |    |      |
| PCN10HA-24P-2.54DSA(72) | CL583-0426-0-72 | 24                 | 48.08 | 43.18 | 34.55 | 27.94 |      |      |    |      |
| PCN10HA-32P-2.54DSA(72) | CL583-0162-0-72 | 32                 | 58.24 | 53.34 | 44.71 | 38.1  |      |      |    |      |
| PCN10HA-44P-2.54DSA(72) | CL583-0165-9-72 | 44                 | 73.48 | 68.58 | 59.95 | 53.34 | 19.8 | 3.28 | 25 |      |
| PCN10HA-50P-2.54DSA(72) | CL583-0402-2-72 | 50                 | 81.1  | 76.2  | 67.57 | 60.96 |      |      |    |      |
| PCN10HB-16P-2.54DSA(72) | CL583-0229-0-72 | 16                 | 37.92 | 33.02 | 24.39 | 17.78 |      |      |    |      |
| PCN10HB-20P-2.54DSA(72) | CL583-0159-6-72 | 20                 | 43    | 38.1  | 29.47 | 22.86 |      |      |    |      |
| PCN10HB-24P-2.54DSA(72) | CL583-0427-3-72 | 24                 | 48.08 | 43.18 | 34.55 | 27.94 |      |      |    |      |
| PCN10HB-32P-2.54DSA(72) | CL583-0163-3-72 | 32                 | 58.24 | 53.34 | 44.71 | 38.1  | 39.8 | 3.30 | 45 |      |
| PCN10HB-44P-2.54DSA(72) | CL583-0166-1-72 | 44                 | 73.48 | 68.58 | 59.95 | 53.34 |      |      |    |      |
| PCN10HB-50P-2.54DSA(72) | CL583-0403-5-72 | 50                 | 81.1  | 76.2  | 67.57 | 60.96 |      |      |    |      |
| PCN10HC-16P-2.54DSA(72) | CL583-0397-4-72 | 16                 | 37.92 | 33.02 | 24.39 | 17.78 |      |      |    |      |
| PCN10HC-44P-2.54DSA(72) | CL583-0399-0-72 | 44                 | 73.48 | 68.58 | 59.95 | 53.34 |      |      |    |      |
| PCN10HC-50P-2.54DSA(72) | CL583-0404-8-72 | 50                 | 81.1  | 76.2  | 67.57 | 60.96 | 34.8 | 4.42 | 40 |      |
| PCN10HD-16P-2.54DSA(72) | CL583-0398-7-72 | 16                 | 37.92 | 33.02 | 24.39 | 17.78 |      |      |    |      |
| PCN10HD-24P-2.54DSA(72) | CL583-0429-9-72 | 24                 | 48.08 | 43.18 | 34.55 | 27.94 |      |      |    |      |
| PCN10HD-44P-2.54DSA(72) | CL583-0400-7-72 | 44                 | 73.48 | 68.58 | 59.95 | 53.34 |      |      |    |      |
| PCN10HD-50P-2.54DSA(72) | CL583-0405-0-72 | 50                 | 81.1  | 76.2  | 67.57 | 60.96 |      |      |    |      |

Note: Please note that the above series can not mate with PCN10EA series.

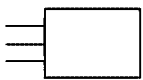
# Product Compliant to DIN41612/IEC603-2 Standard

## PCN Series

### Pin Header Side

●Straight through hole type

PCN10 - \* \*P-2.54DSA



●Stacking through hole type

PCN10H\* - \* \*P-2.54DSA

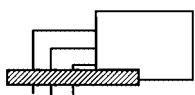


●Right angle through hole type (mounted on the board edge)

PCN10 - \* \*P-2.54DS

PCN12 - \* \*P-2.54DS

PCN12E - \* \*P-2.54DS



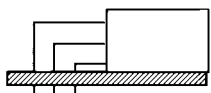
●Right angle through hole type (mounted on the board)

PCN10A - \* \*P-2.54DS

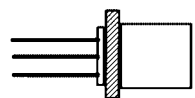
PCN10EA- \* \*P-2.54DS

PCN12A - \* \*P-2.54DS

PCN12EA- \* \*P-2.54DS



●Press fit type



PCN11-\* \*P-2.54W\* -2+PCN11-\* \*P-2.54H-2

### Receptacle Side

●Straight through hole

PCN10 - \* \*S-2.54DSA

PCN10C - \* \*S-2.54DSA

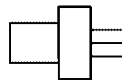
PCN10EA-\* \*S-2.54DSA

PCN10D - \* \*S-2.54DSA

PCN12 - \* \*S-2.54DSA

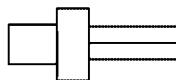
PCN12E - \* \*S-2.54DSA

PCN13 - \* \*S-2.54DSA



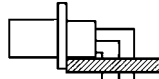
●Wrapping type

PCN10 - \* \*S-2.54W\*



●Right angle through hole type (mounted on the board edge)

PCN10B - \* \*S-2.54DS

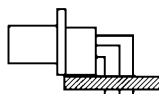


●Right angle through hole type (mounted on the board)

PCN10A - \* \*S-2.54DS

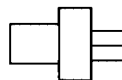
PCN10C - \* \*S-2.54DS

PCN13 - \* \*S-2.54DS



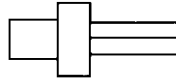
●Press fit short pin type

PCN11-\* \*S-2.54PFB-2

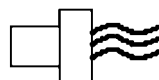


●Press fit long pin type

PCN11-\* \*S-2.54WB-2



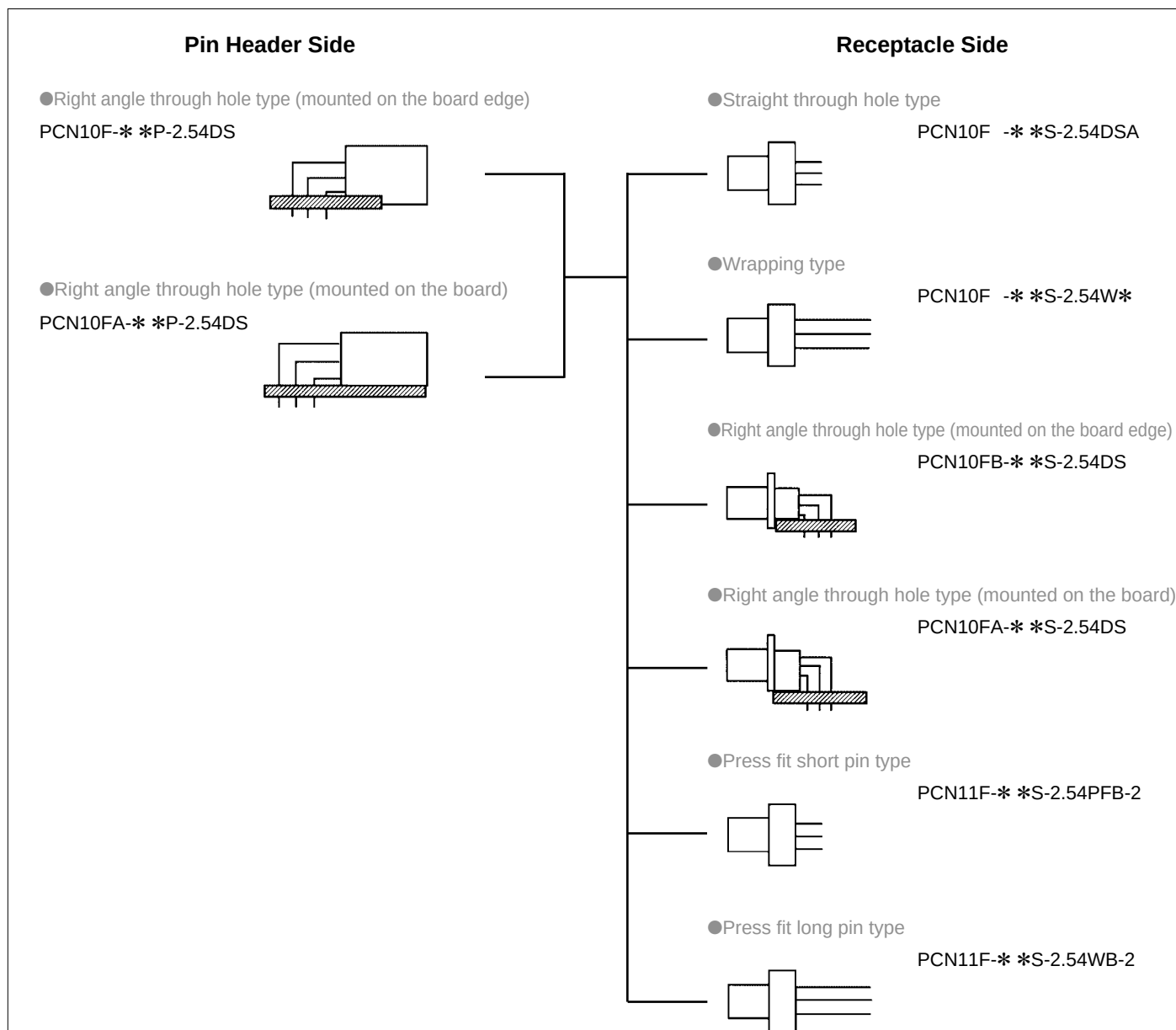
●Cable type



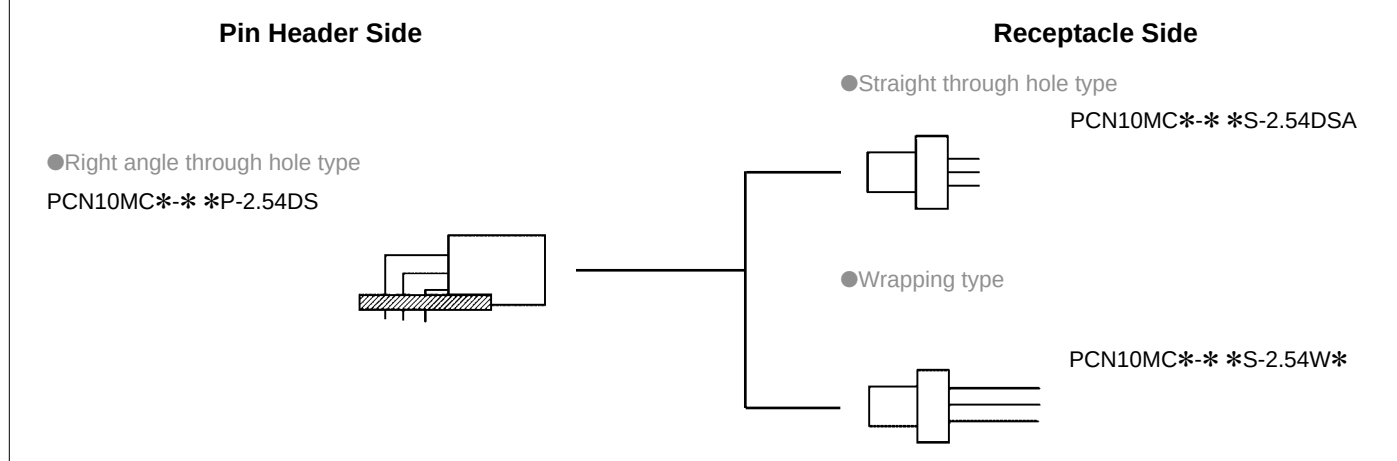
PCN10-\* \*S-2.54C+PCN10-\* \* \*SC\*

PCN10-\* \*S-2.54R

## Coaxial Connector and High Current Contact Composite Type



## Circuit Protection Function Type



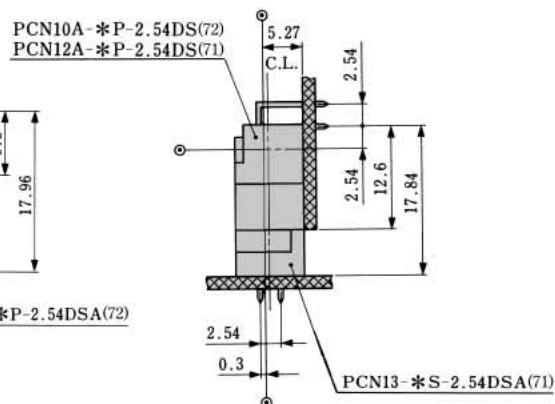
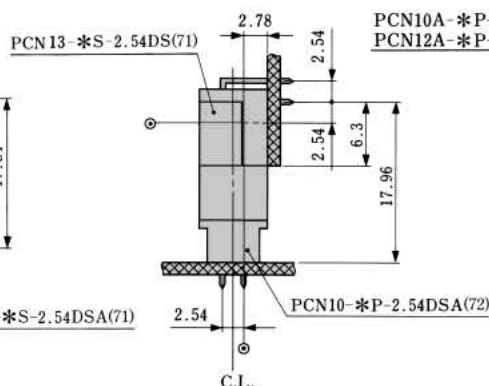
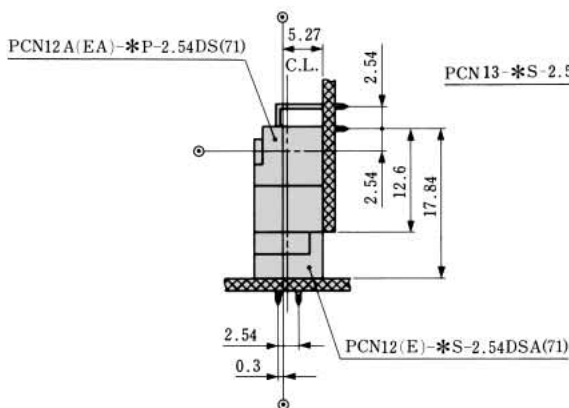
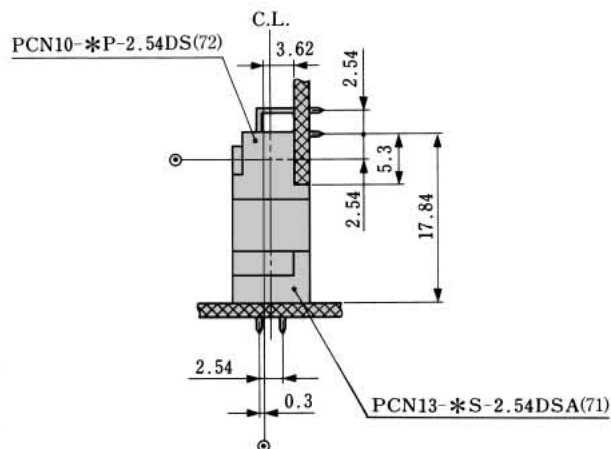
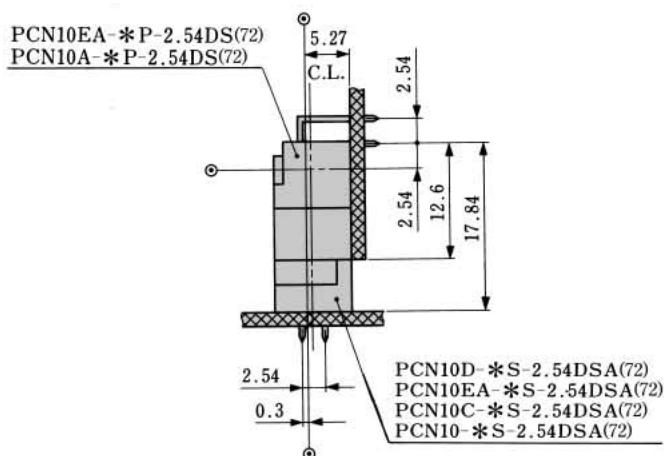
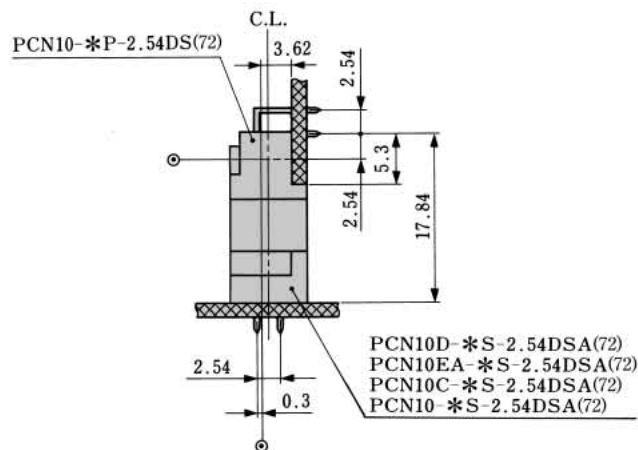
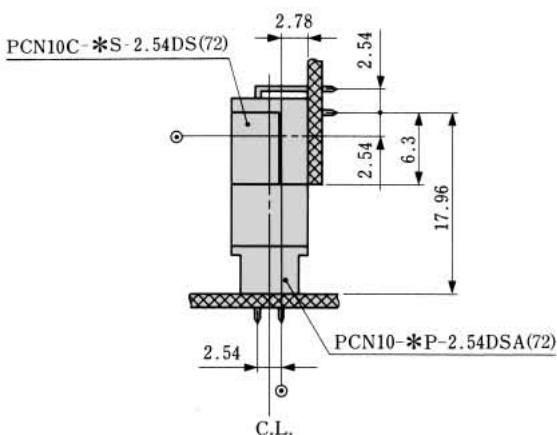
## ◆ Application Pattern

### ● Vertical Connection

#### ● 2-row type

● : Mounting hole center

C.L. : Center line

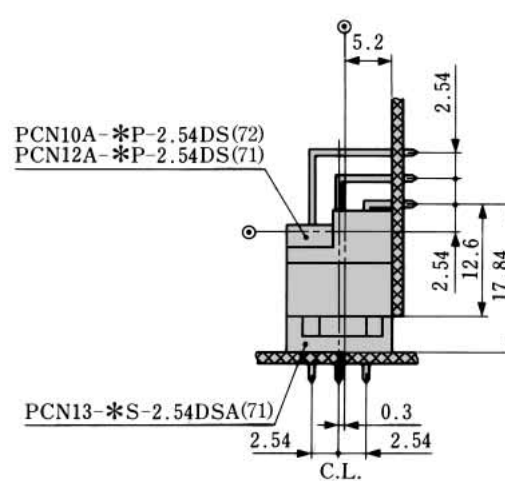
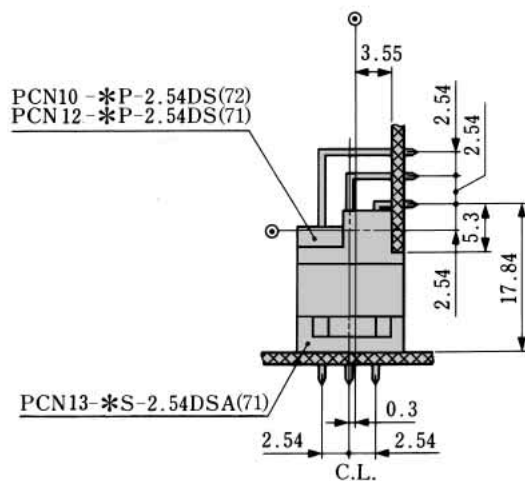
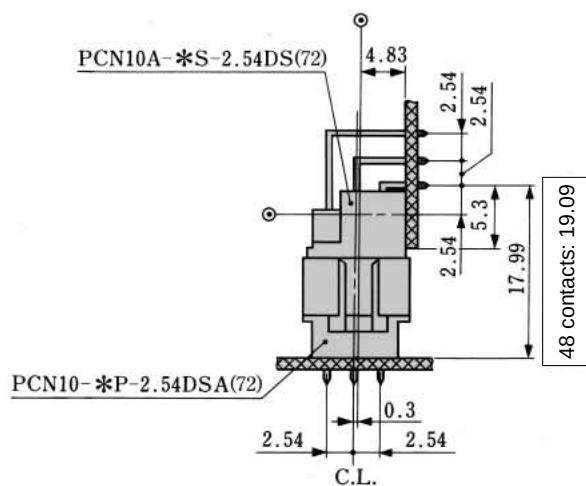
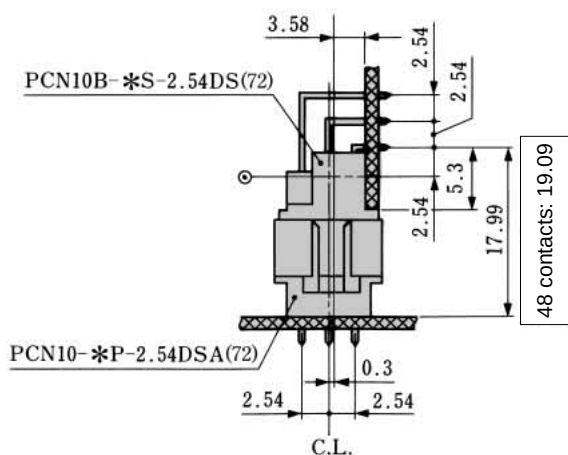
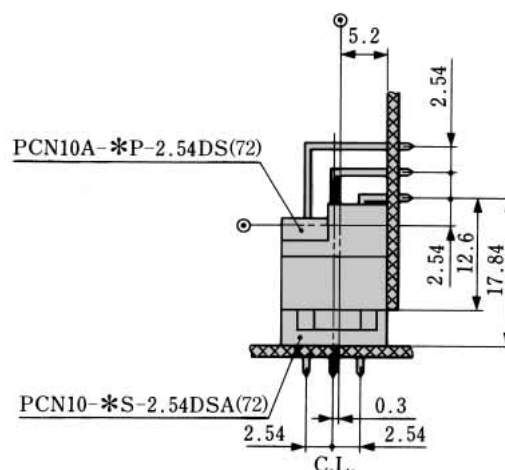
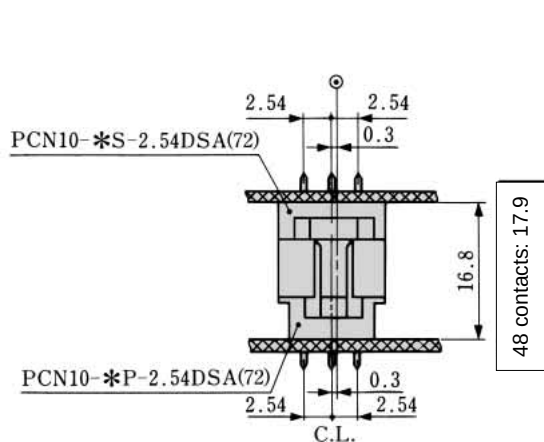


PCN Series Product Compliant to DIN 41612/EC603-2 Standard

● 3-row type

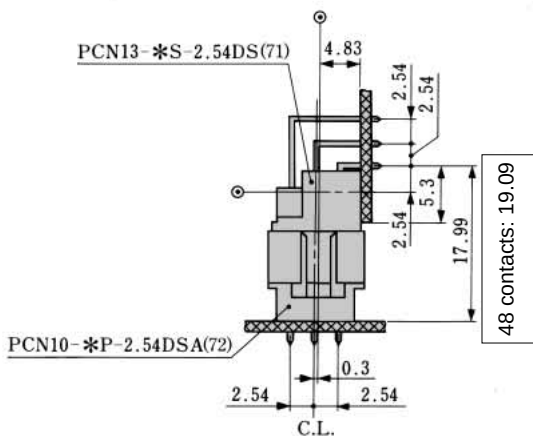
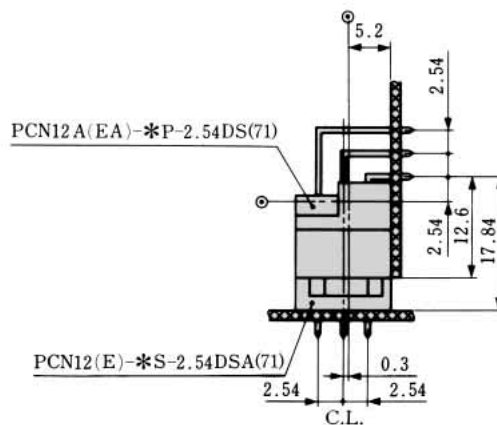
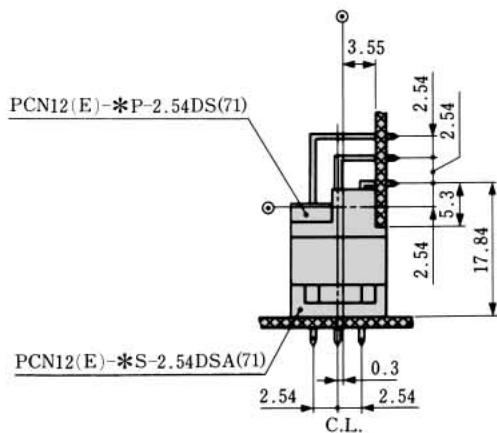
⊙ : Mounting hole center

C.L. : Center line

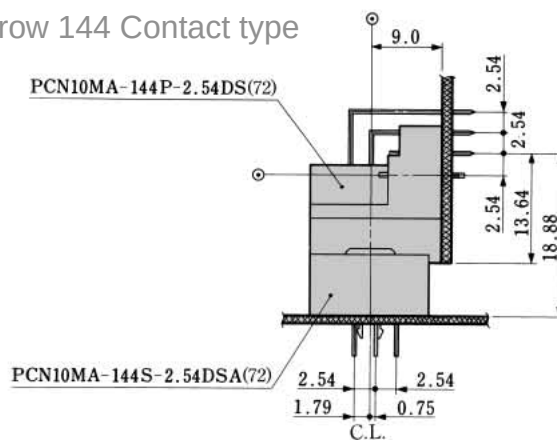


● : Mounting hole center

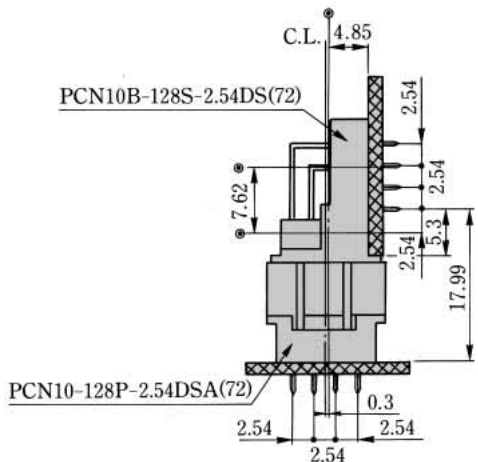
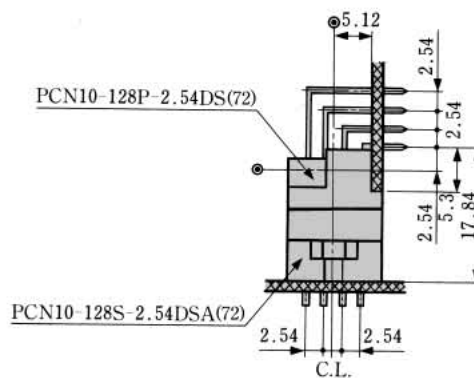
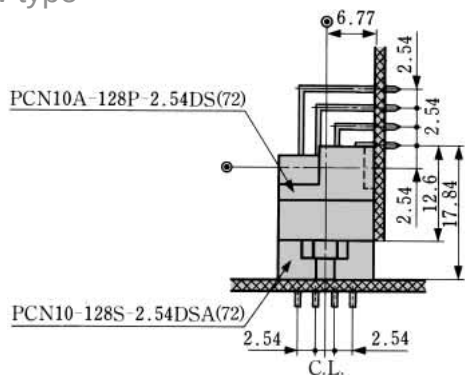
C.L. : Center line



### ●3-row 144 Contact type



### ●4-row type





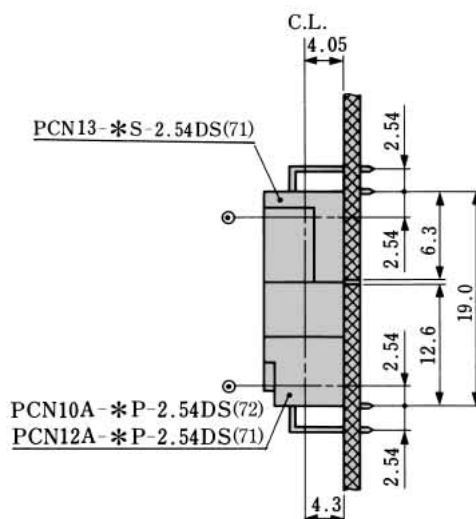
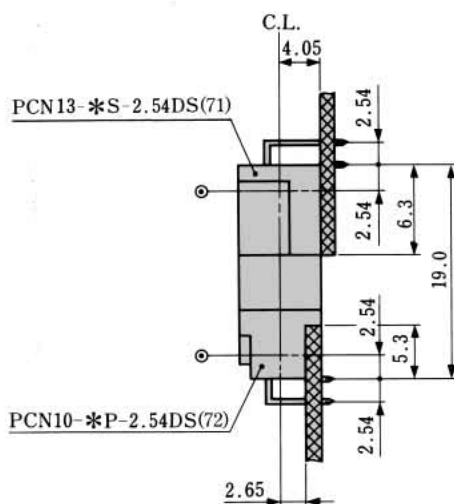
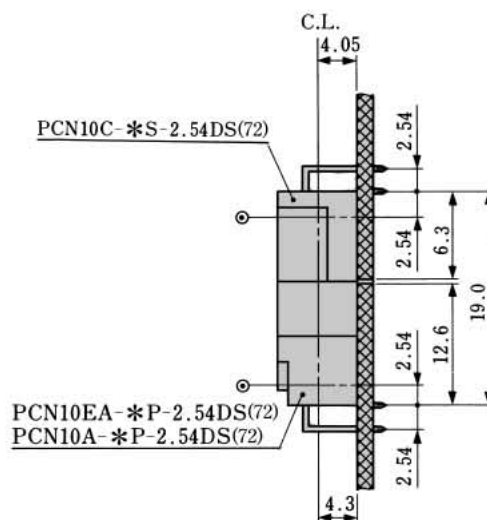
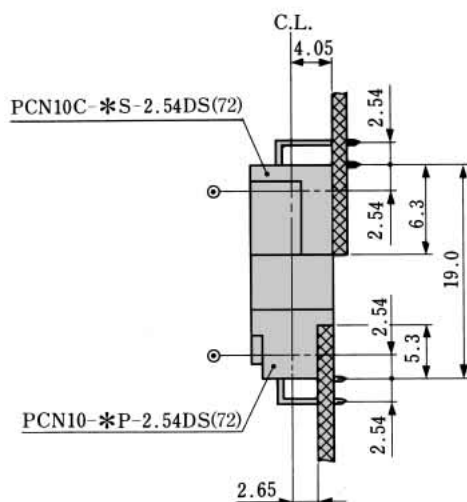
## ◆ Application Pattern

### ● Horizontal Connection

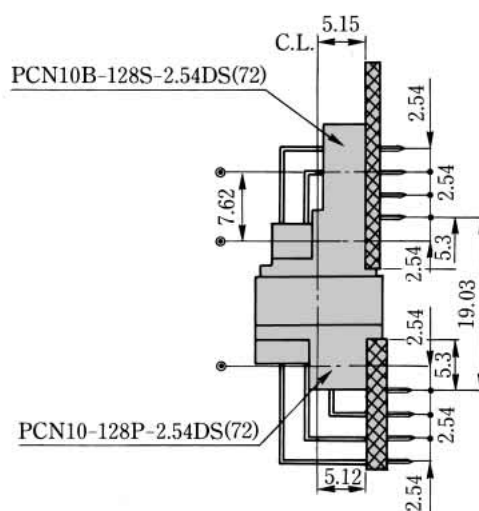
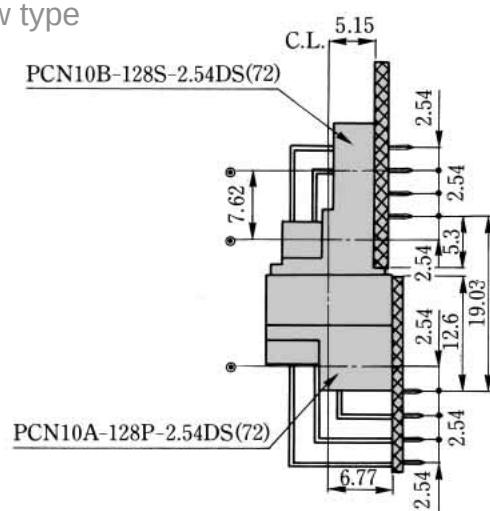
#### ● 2-row type

● : Mounting hole center

C.L. : Center line



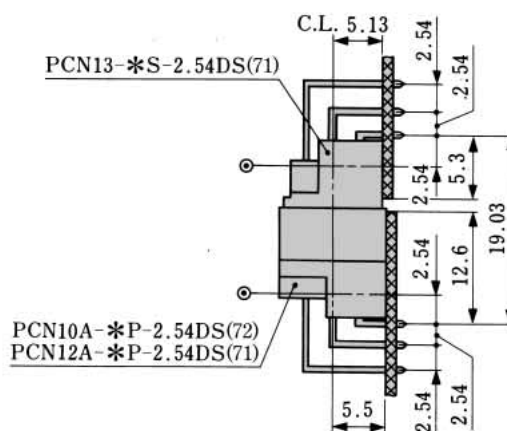
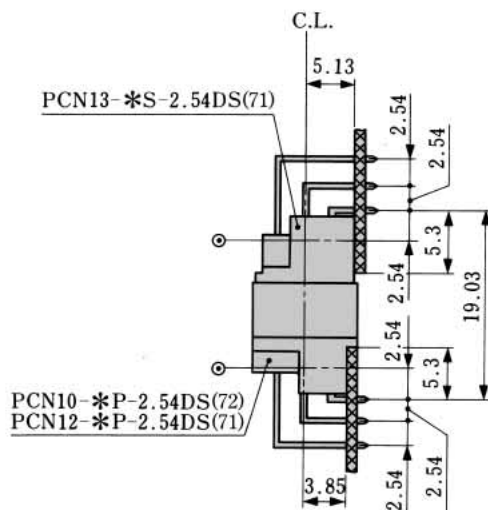
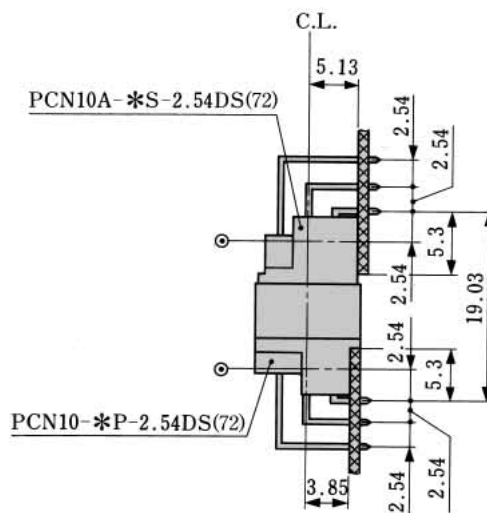
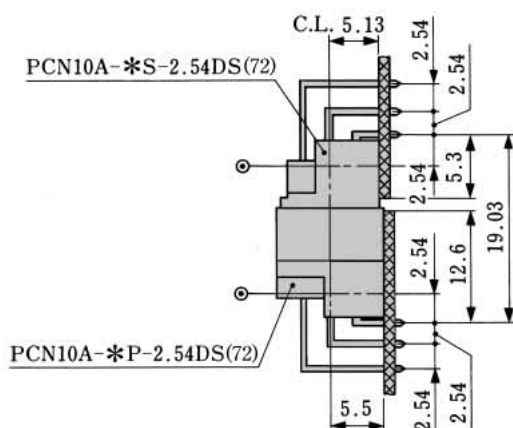
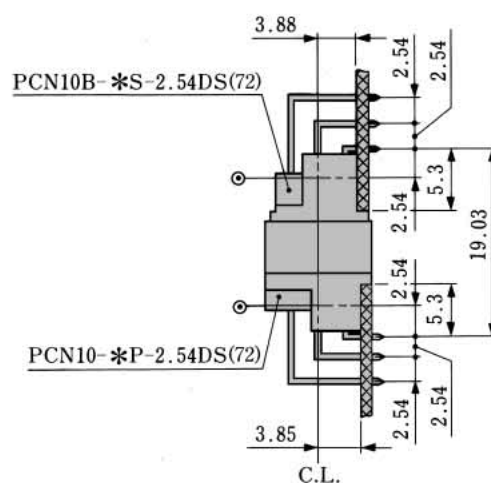
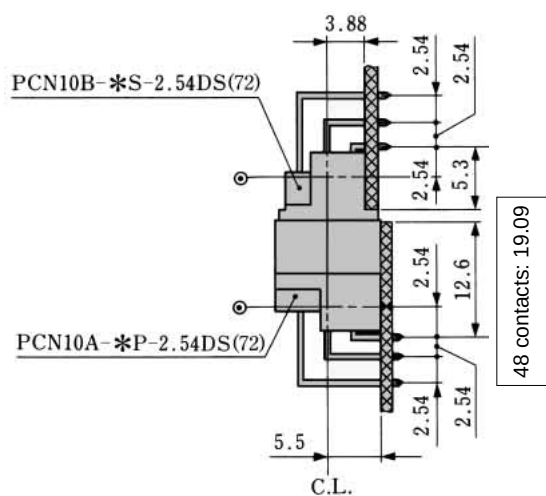
#### ● 4-row type



### ●3-row type

● : Mounting hole center

C.L. : Center line



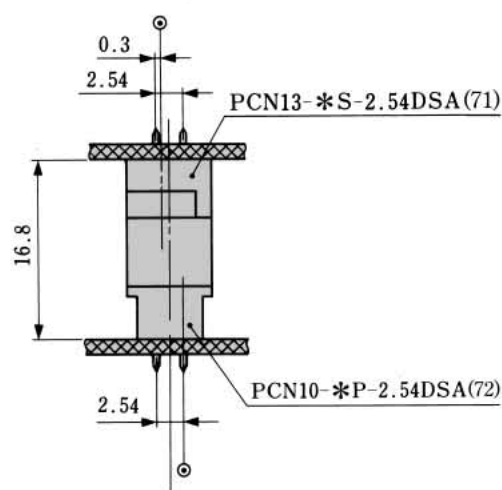
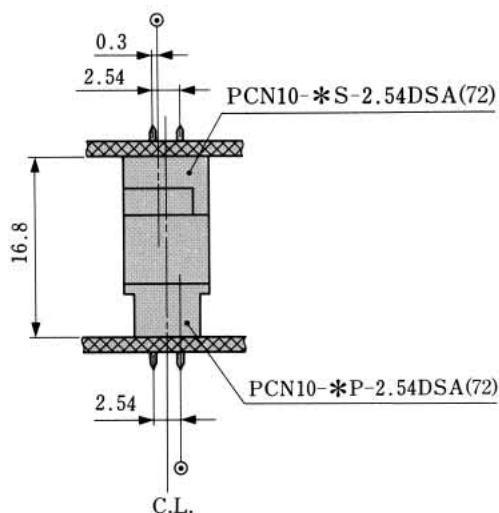
## PCN Series Product Compliant to DIN 41612/EC603-2 Standard

### ◆ Application Pattern

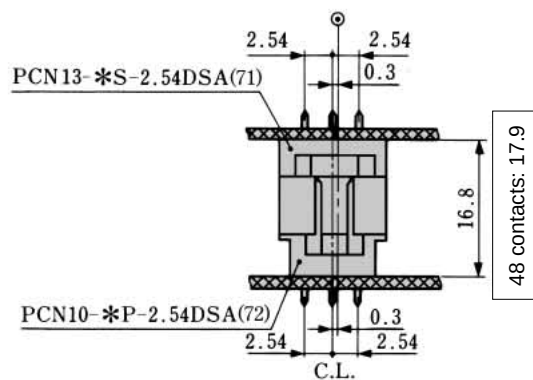
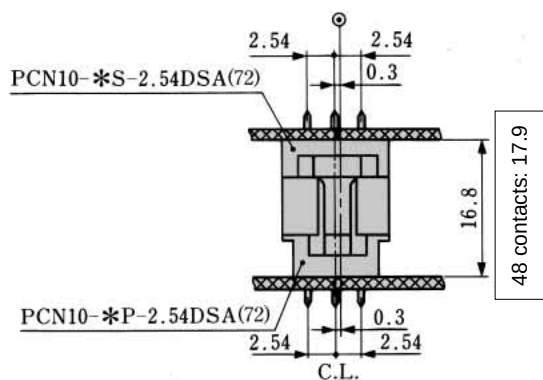
#### ● Horizontal Connection

##### ● 2-row type

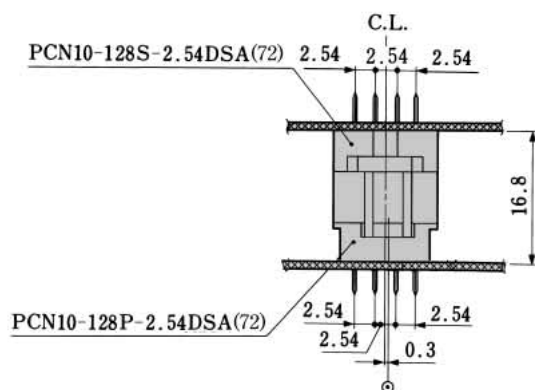
● : Mounting hole center  
 C.L. : Center line



##### ● 3-row type



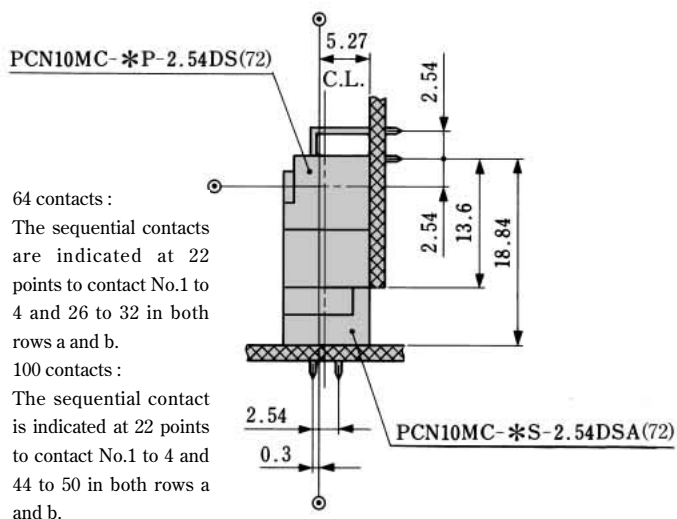
##### ● 4-row type



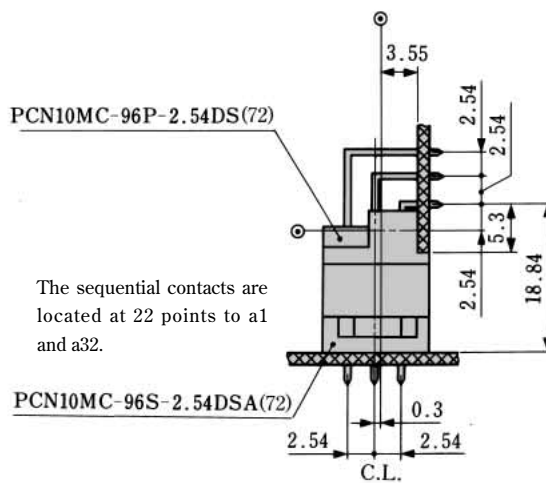
## ◆ Application Pattern

### ■ Circuit Protection Function Type

#### ● 2-row type

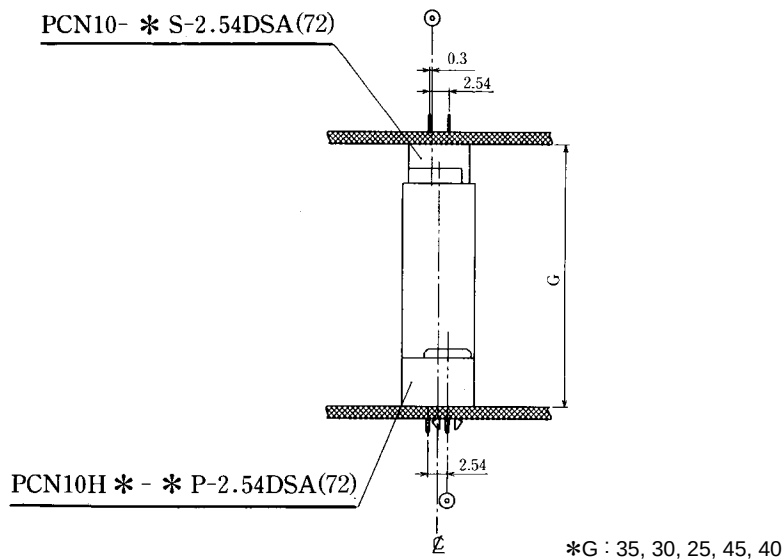


#### ● 3-row type



● : Mounting hole center  
 C.L. : Center line

### ■ Stacking Connector



● : Mounting hole center  
 C.L. : Center line