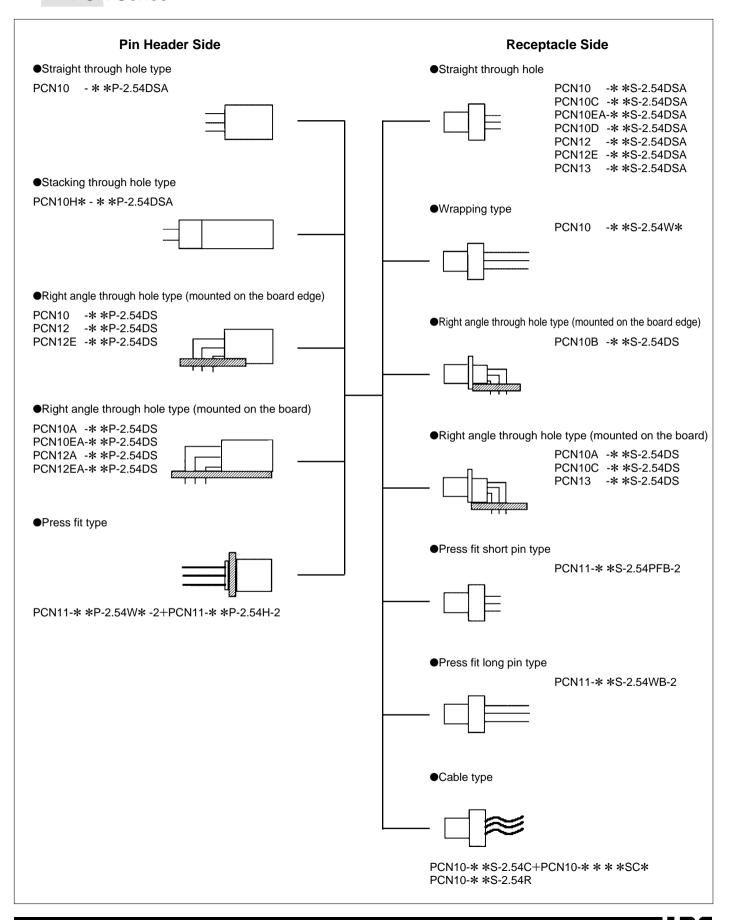
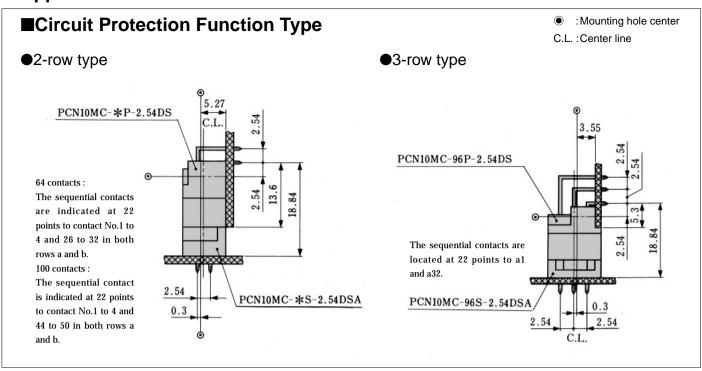
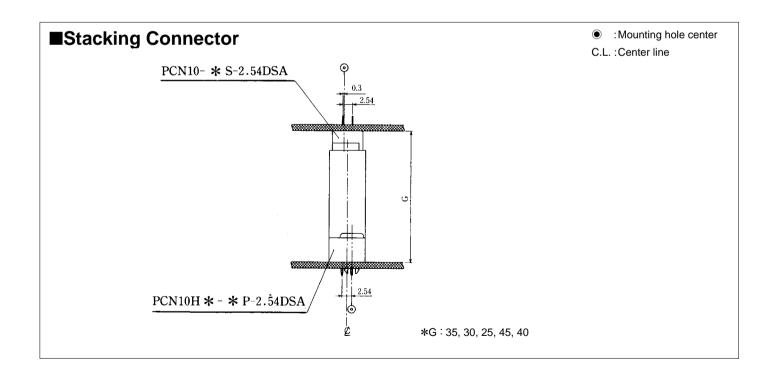
# Product Compliant to DIN41612/IEC603-2 Standard

### **PCN Series**

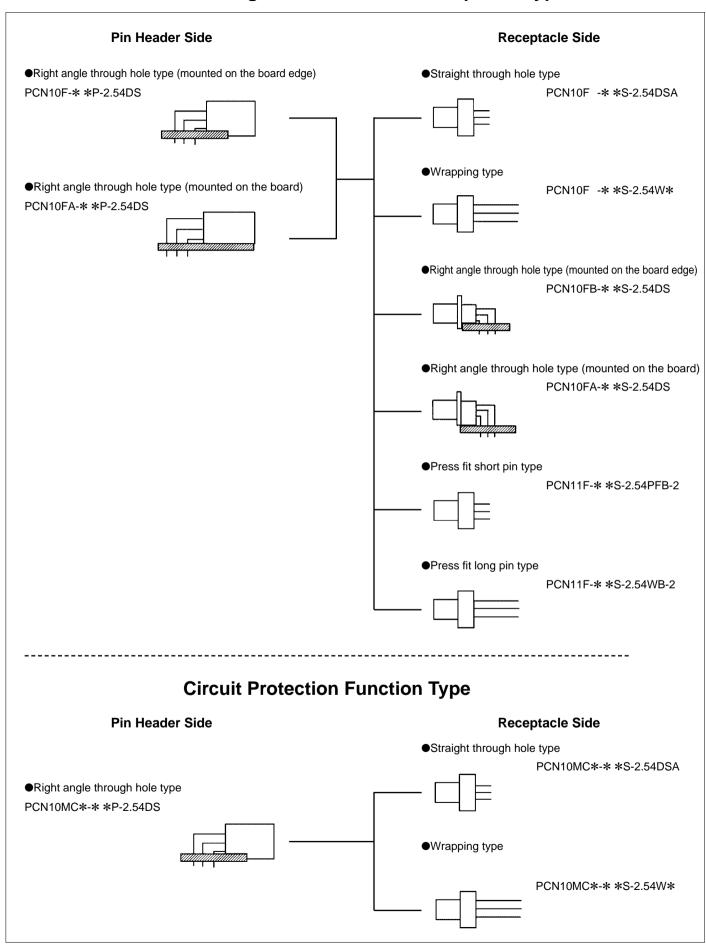


## Application Pattern

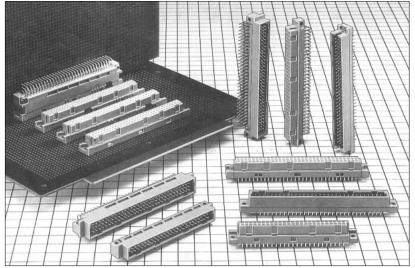




### **■**Coaxial Connector and High Current Contact Composite Type



### 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 doublesided 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.

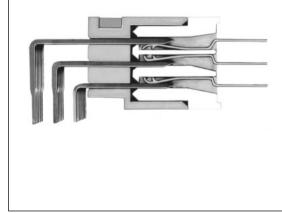
### **■**Application

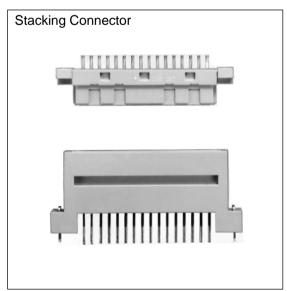
Control equipment, exchange, measuring instruments etc.

Double-sided two point Contact System



Single-sided two point Contact System





### **■**Product Specifications

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

Item	Specification	Condition	
1.Insulation Resistance	10 <sup>6</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 10 $\mu$ s 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 : 106M 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 : 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.

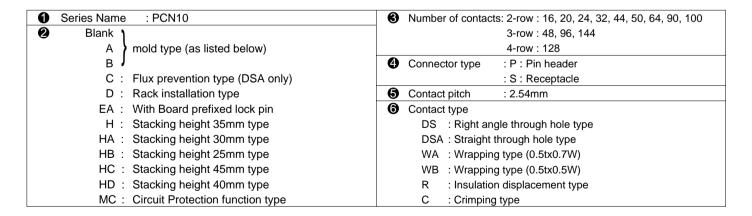
Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non conducting condition of installed connectors in storage, shipment or during transportation.

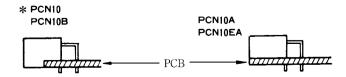
### ■Material

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

### **■**Ordering Information

$$\frac{\mathsf{PCN} \ 10 \ \mathsf{Series} }{\mathbf{0}} \quad \frac{\mathsf{PCN10}}{\mathbf{0}} \quad \frac{\mathsf{A}}{\mathbf{0}} - \frac{\mathsf{x}}{\mathbf{0}} \quad \frac{\mathsf{P}}{\mathbf{0}} - \frac{\mathsf{2.54}}{\mathbf{0}} \quad \frac{\mathsf{DS}}{\mathbf{0}}$$

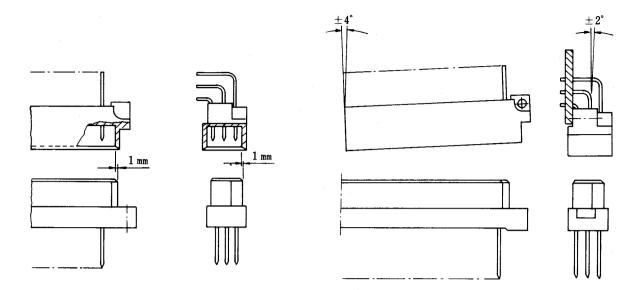




 $\bigstar$  The receptacle double-row right angle type indicates the type of PCN10A type.

# **● DIN Connector Mating Condition**

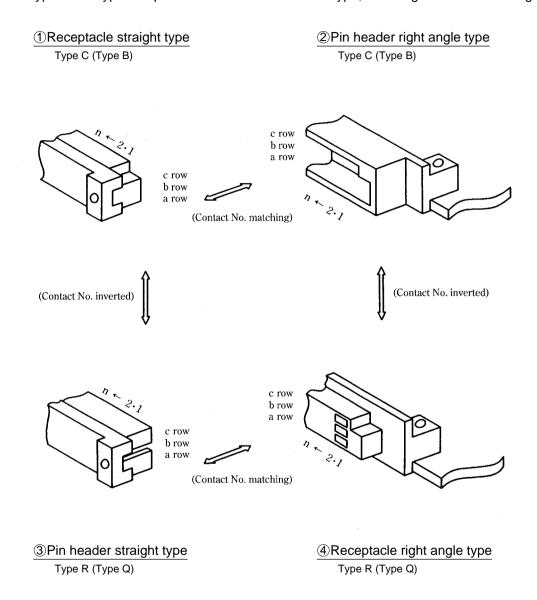
DIN connectors of Hirose should be used under conditions as illustrated below.



### **♦**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.



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).

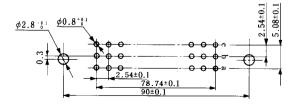
### **■**Pin Header: 3-row Straight Type (DIN standard type R)



95 90±0.2 88 85.25 78.74±0.15

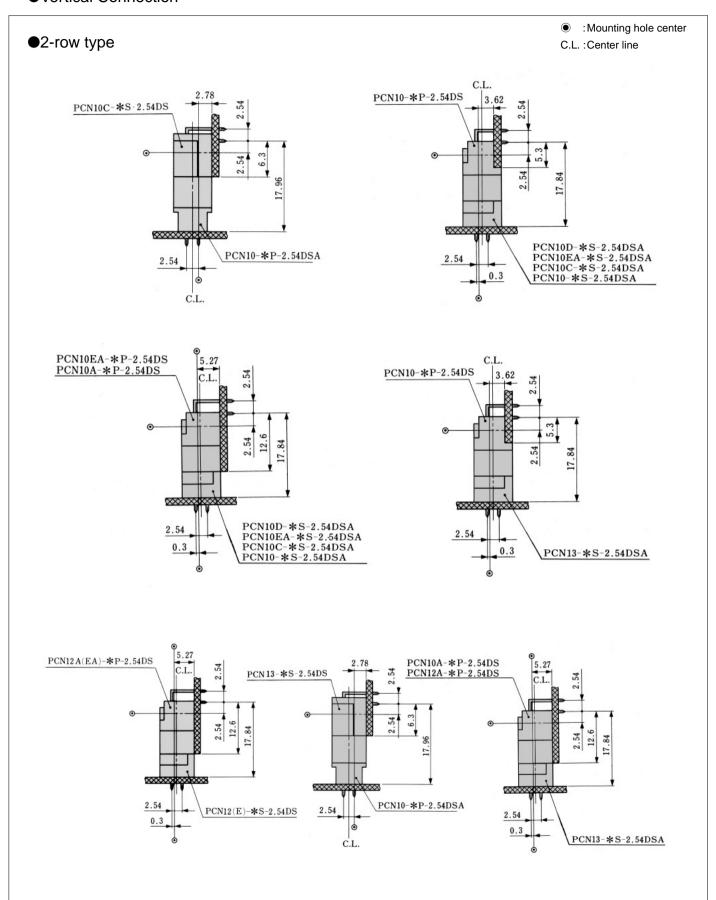


**●**PCB mounting pattern

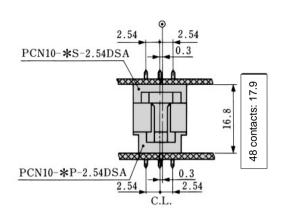


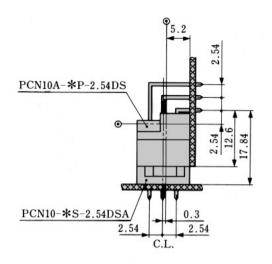
## **◆**Application Pattern

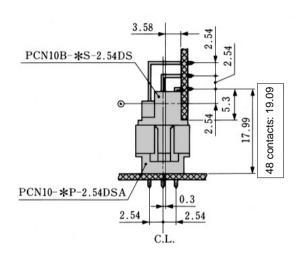
### Vertical Connection

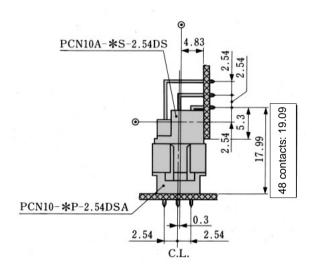


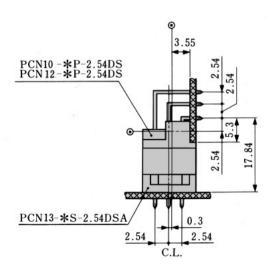
C.L. : Center line

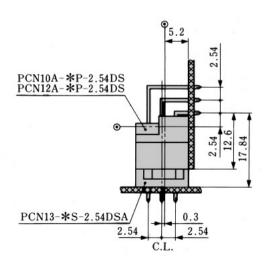


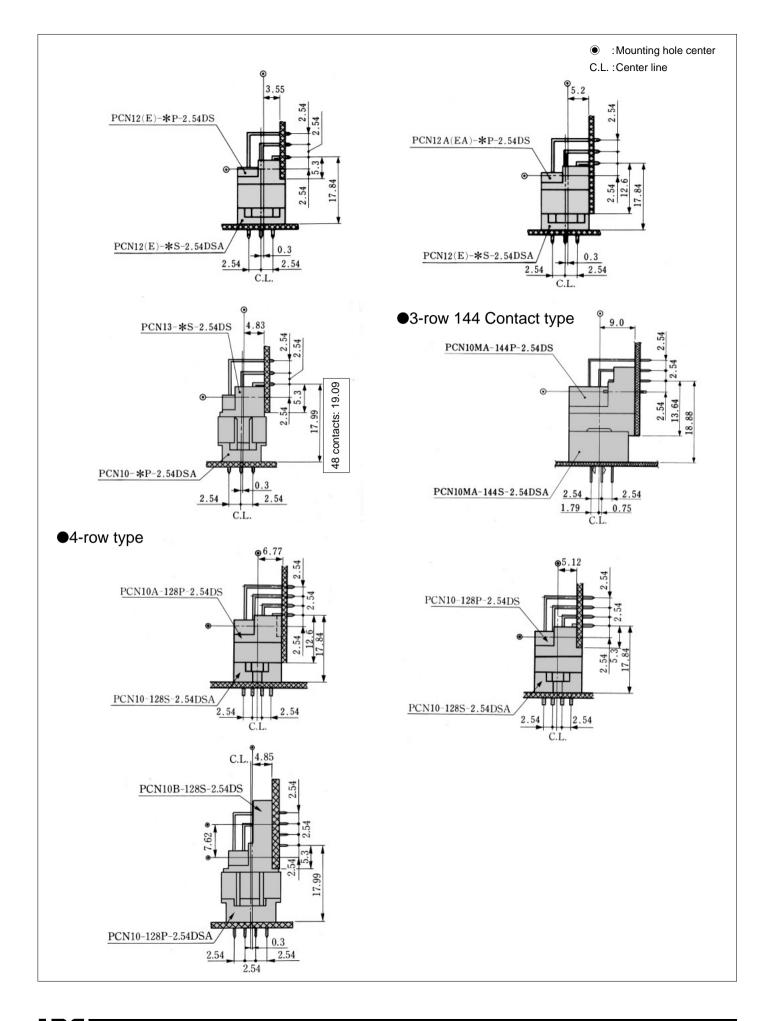






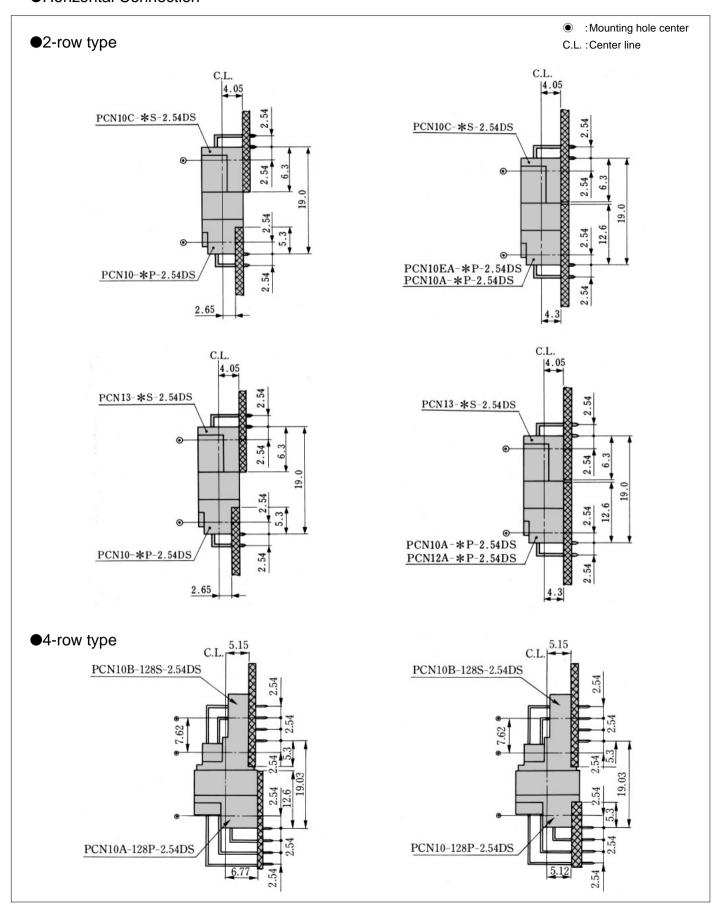


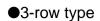




# **◆**Application Pattern

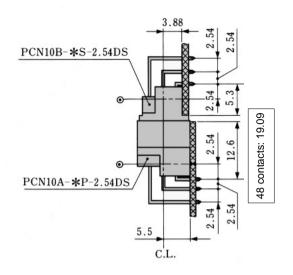
Horizontal Connection

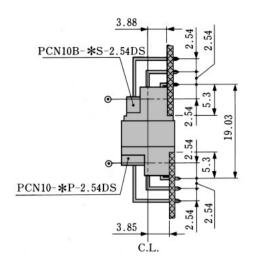


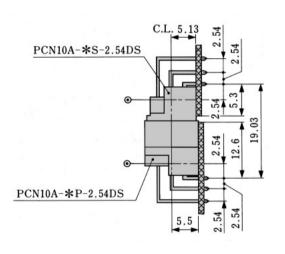


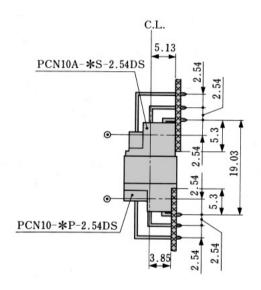
• : Mounting hole center

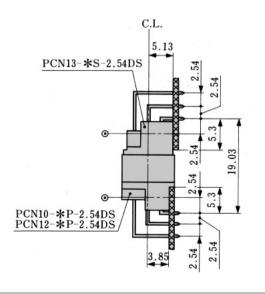
C.L. : Center line

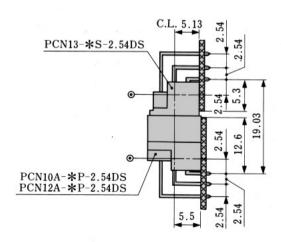








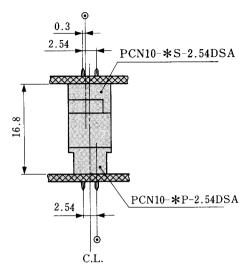




# **◆**Application Pattern

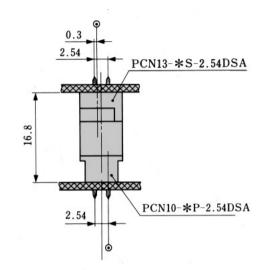
### Horizontal Connection



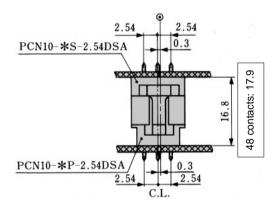


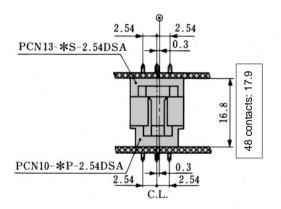
• : Mounting hole center

C.L.: Center line



### ●3-row type





### ●4-row type

