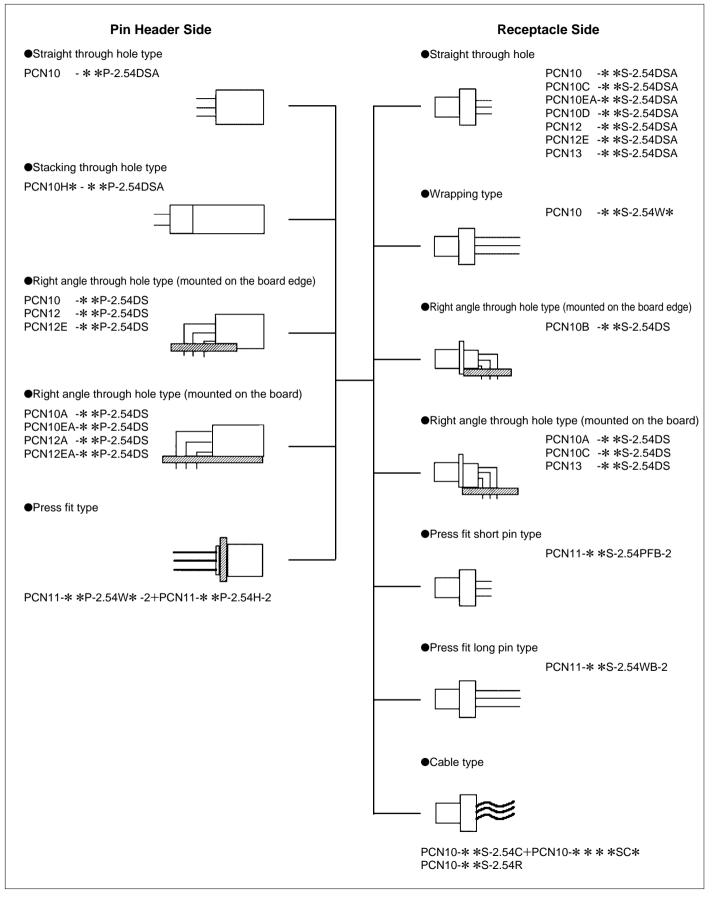
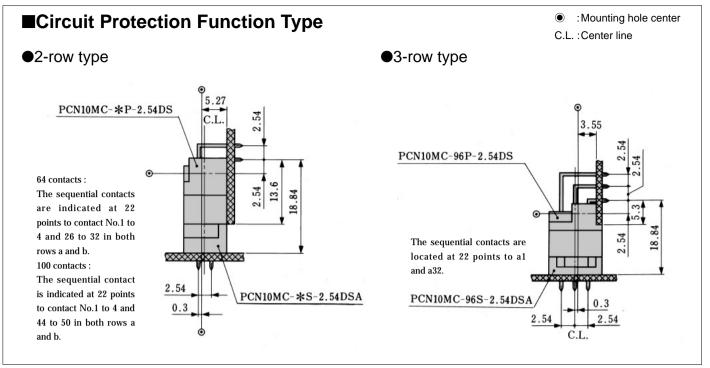
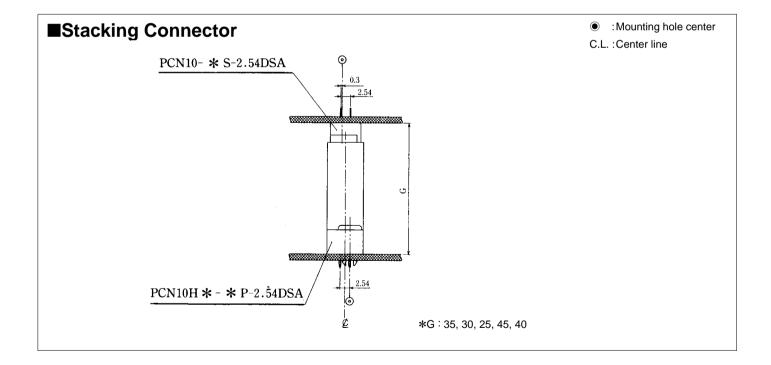
## Product Compliant to DIN41612/IEC603-2 Standard

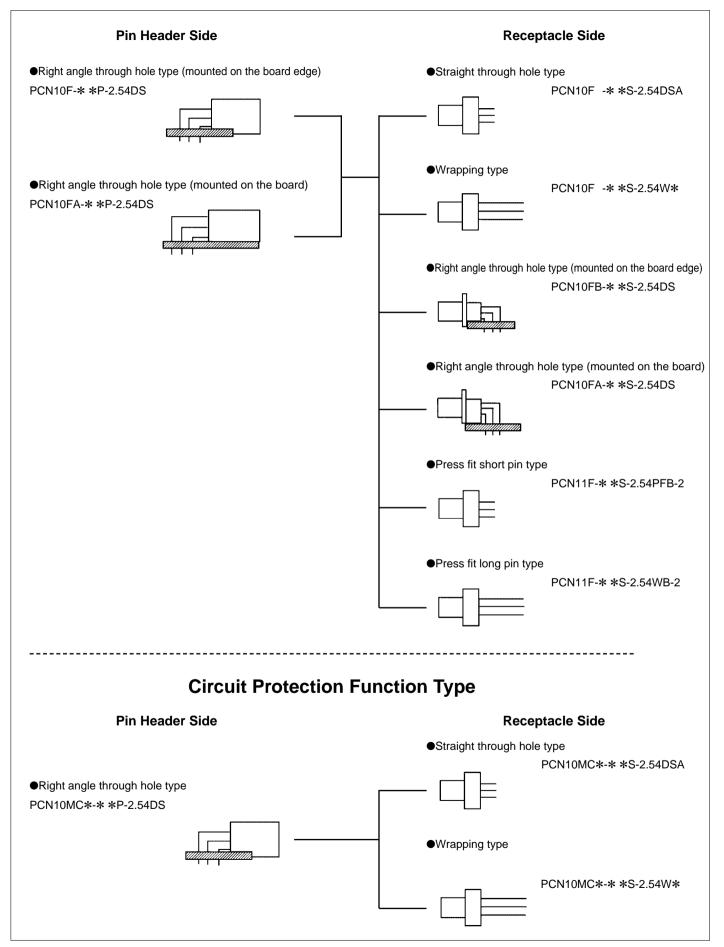
### **PCN Series**



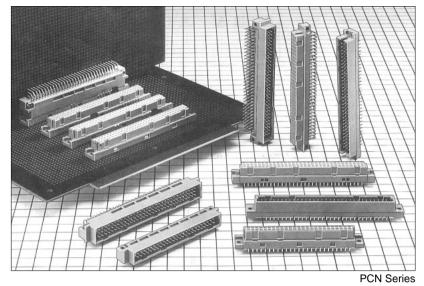




## ■Coaxial Connector and High Current Contact Composite Type



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



#### 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.

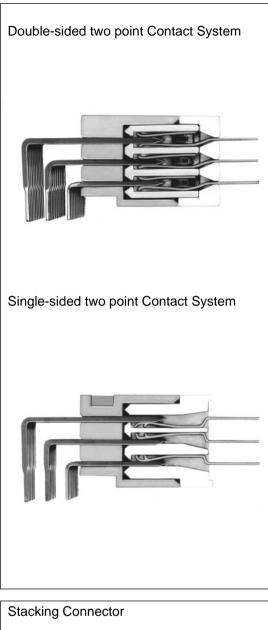
#### 7. Cable connector

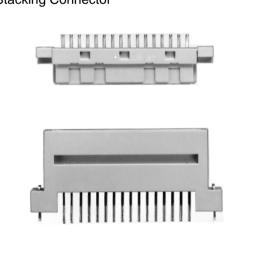
ID connector for ribbon cable is available.

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

#### ■Application

Control equipment, exchange, measuring instruments etc.





## ■Product Specifications

Rating	Current rating: 2A Voltage rating: 300V AC	Operating Temperature Range: -55 to +85°C (Note 1) Operating Humidity Range: 85% max		Storage Temperature Range: -10 to +60°C (Note 2) Storage Humidity Range: 40 to 70% (Note 2)		
Item	Specification		Condition			
1.Insulation Resistance	10 <sup>e</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>e</sup> M ohms min.		96 hours at temperature of 40 $^{\circ}\mathrm{C}$ and humidity of 90% to 95%			
6.Temperature Cycle	No damage, cracks, or parts looseness.		(-65℃ : 30 minutes→15 to 35℃: 5 minutes max.→ 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			

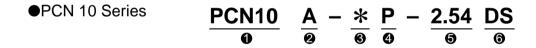
Note 1: Includes temperature rise caused by current flow.

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.

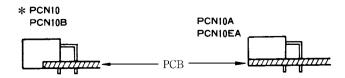
#### ■Material

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

## ■Ordering Information



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



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

PCN 12 Series (Plug)

# $\frac{\mathsf{PCN12}}{\mathbf{0}} \quad \frac{\mathsf{A}}{\mathbf{0}} \quad - \frac{*}{\mathbf{0}} \quad \frac{\mathsf{P}}{\mathbf{0}} \quad - \quad \frac{2.54}{\mathbf{0}} \quad \frac{\mathsf{DS}}{\mathbf{0}}$

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

#### PCN 12E-\*S-2.54 DSA(Socket)



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

## PCN 13E-\*S-2.54 DSA (Socket)

## $\frac{\mathsf{PCN13}}{\mathbf{0}} \quad \frac{\mathsf{E}}{\mathbf{0}} \quad - \frac{*}{\mathbf{0}} \quad \frac{\mathsf{S}}{\mathbf{0}} \quad - \frac{2.54}{\mathbf{0}} \quad \frac{\mathsf{DSA}}{\mathbf{0}}$

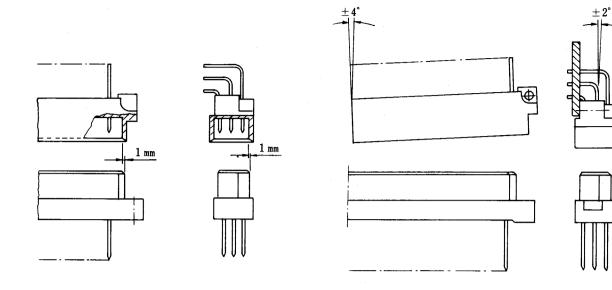
Series name : PCN13		<b>4</b> S	: Socket
No symbol : Standard type		Contact pitch	: 2.54mm
E	: With board prefixed easy pin type	Contact style	: DS: Right angle through hole type
3 Number of contacts : 2-row: 10, 16, 20, 30, 32, 44, 50,			: DSA: Straight through hole type
64, 90, 100			
	3-row: 48, 96		

**\***PCN13 series are only socket type.

PCN10 and 12 series are mating connectors.

## DIN Connector Mating Condition

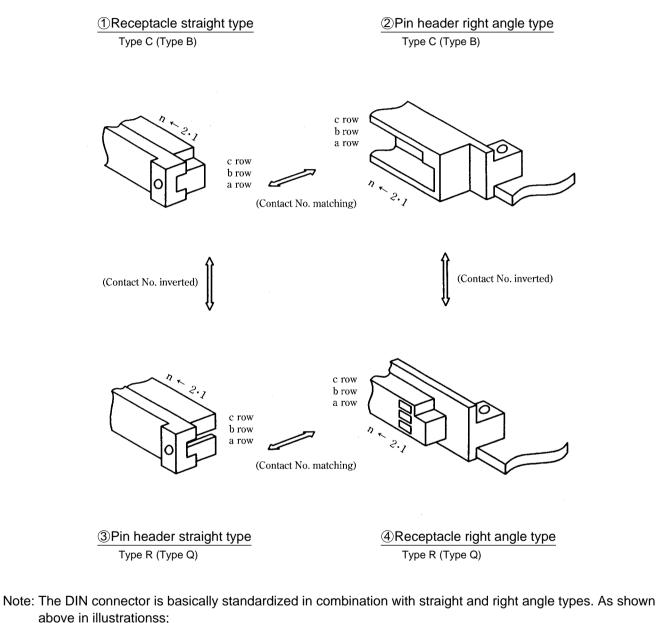
DIN connectors of Hirose should be used under conditions as illustrated below.



## Contact numbers

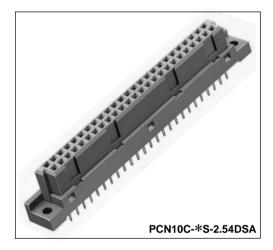
According to the inter-combination with DIN standard type C (type B) and type R (type Q), the contact numbers and row numbers represent contact No. (No.1 to 32) and row No. (a, b, c).

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.

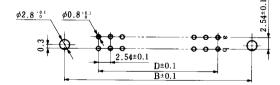


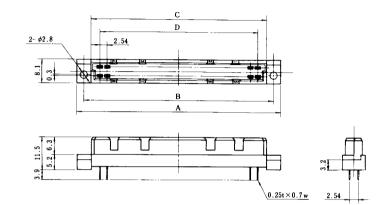
The contact numbers is matched in combination with (1)-(2) and (3)-(4), while the contact numbers are inverted in combination with (1)-(2) and (3)-(4).

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



♦ PCB mounting pattern





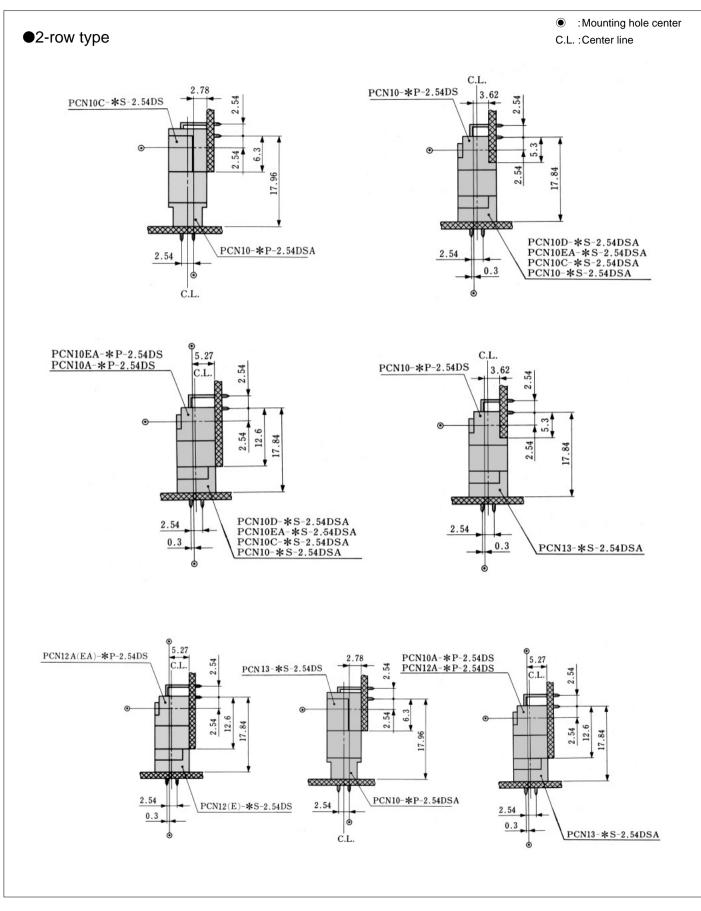
Unit:mm

Part Number	CL No.	Number of Contacts	А	В	С	D
PCN10C- 16S-2.54DSA	583-0226-1	16	34.04	29.04	24.04	17.78
PCN10C- 20S-2.54DSA	583-0079-9	20	39.12	34.12	29.12	22.86
PCN10C- 32S-2.54DSA	583-0033-8	32	54.36	49.36	44.36	38.1
PCN10C- 44S-2.54DSA	583-0034-0	44	69.6	64.6	59.6	53.34
PCN10C- 50S-2.54DSA	583-0035-3	50	77.22	72.22	67.22	60.96
PCN10C- 64S-2.54DSA	583-0036-6	64	95	90	85	78.74
PCN10C- 90S-2.54DSA	583-0037-9	90	128.02	123.02	118.02	111.76
PCN10C-100S-2.54DSA	583-0112-2	100	140.72	135.72	130.72	124.46

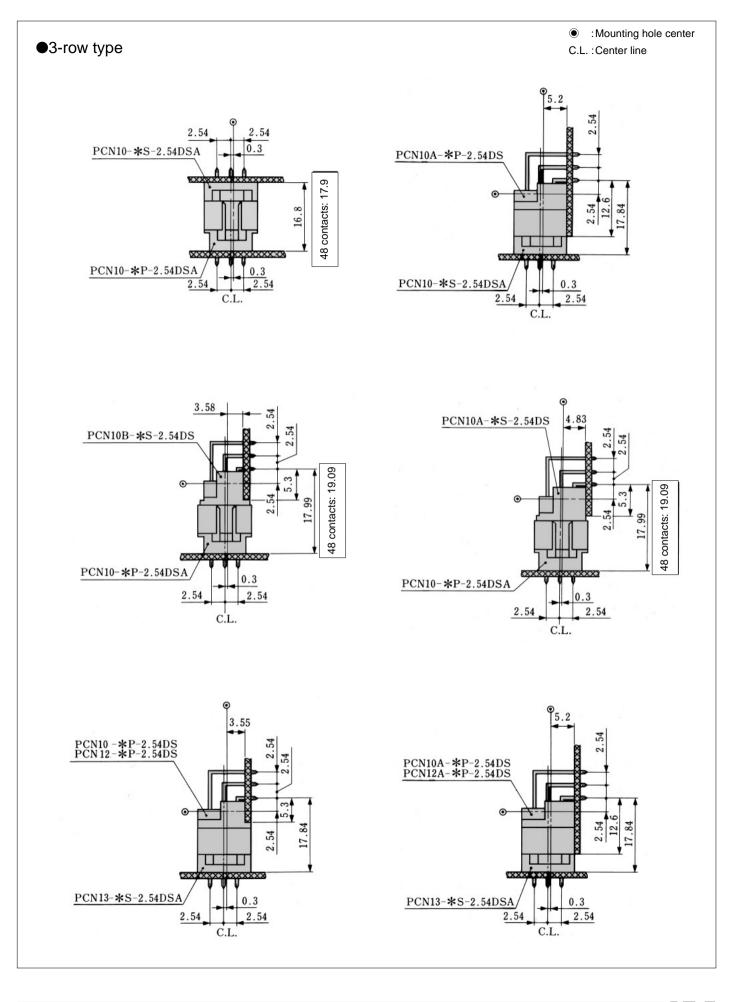


## ▲ Application Pattern

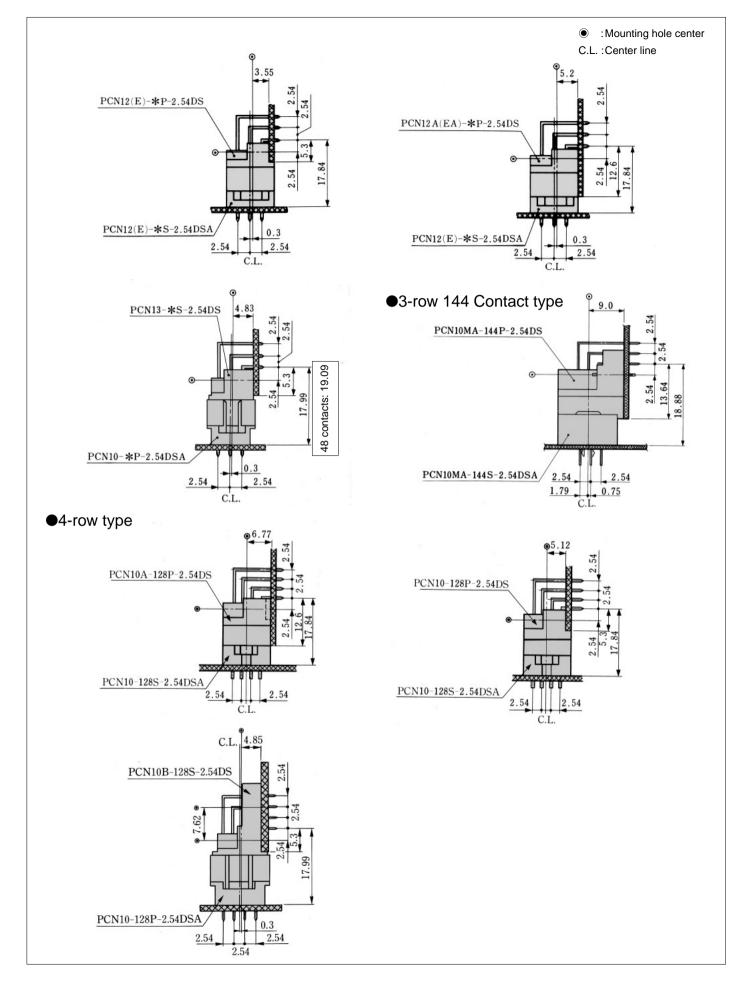
#### Vertical Connection



A64 **RS** 



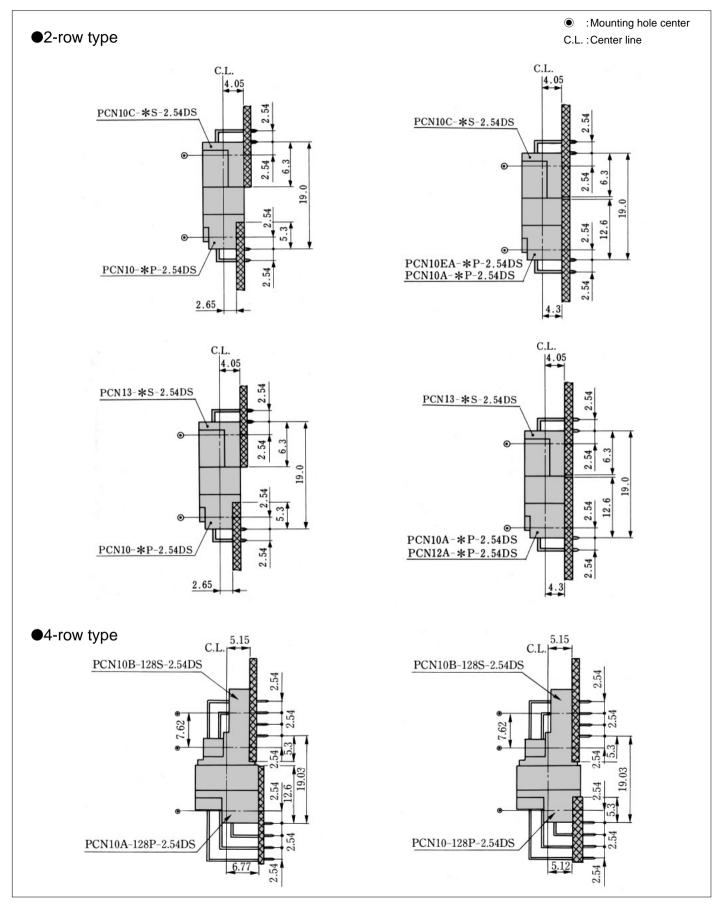
**HS** A65

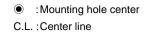


A66 **HS** 

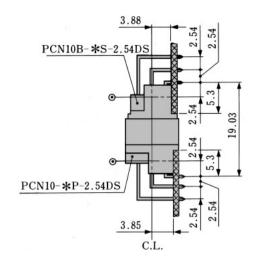
## Application Pattern

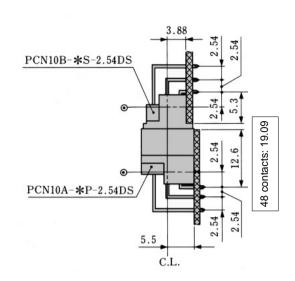
#### Horizontal Connection

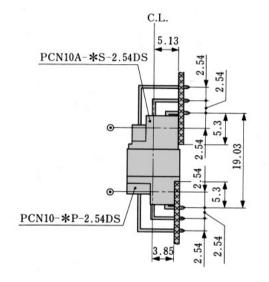


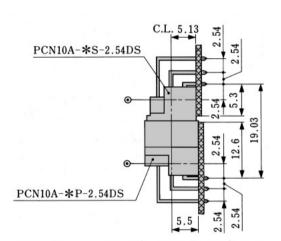


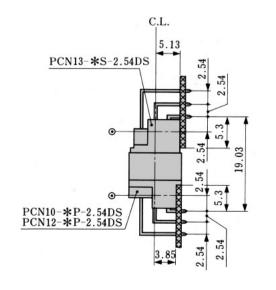


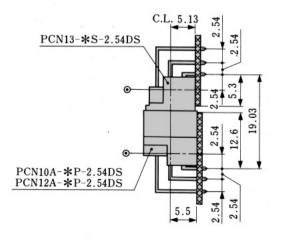












## Application Pattern

#### Horizontal Connection

