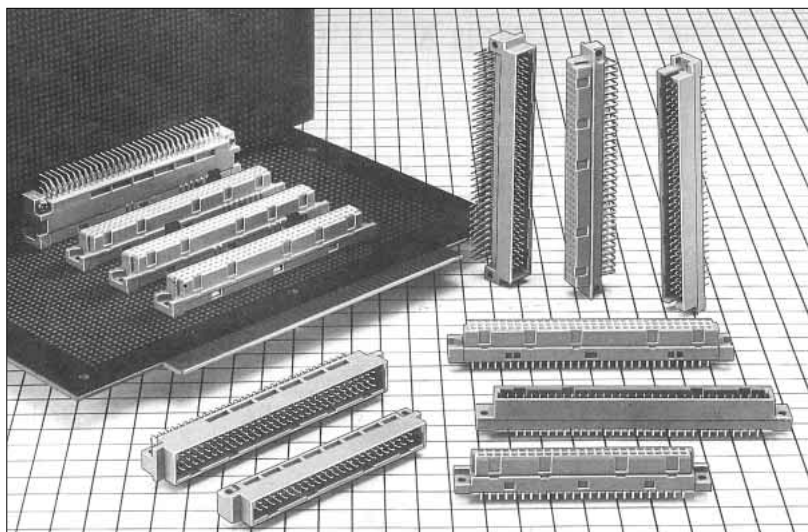


## PCN10, 12, 13 Series (Product Compliant to DIN Standard: through hole, Wrapping Type)



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

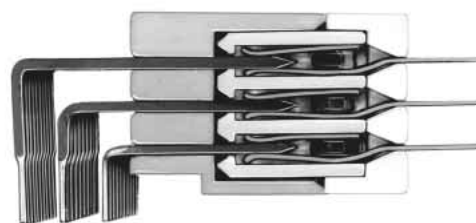
ID connector for ribbon cable is available.

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

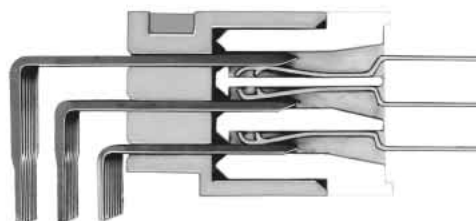
### ■ Application

Control equipment, exchange, measuring instruments etc.

#### Double-sided two point Contact System



#### Single-sided two point Contact System



#### Stacking Connector



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)
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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.

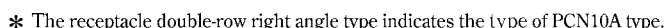
Note 3: Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

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

**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 3-row : 48, 96, 144 4-row : 128
② Blank } mold type (as listed below) A } B } C : Flux prevention type (DSA only) D : Rack installation type EA : With Board prefixed lock pin H : Stacking height 35mm type HA : Stacking height 30mm type HB : Stacking height 25mm type HC : Stacking height 45mm type HD : Stacking height 40mm type MC : Circuit Protection function type	④ Connector type : P : Pin header S : Receptacle
	⑤ Contact pitch : 2.54mm
	⑥ Contact type DS : Right angle through hole type DSA : Straight through hole type WA : Wrapping type (0.5tx0.7W) WB : Wrapping type (0.5tx0.5W) R : Insulation displacement type C : Crimping type



PCN Series Product Compliant to DIN 41612/EC605-2 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, 50, 64, 90, 100 3-row: 96
② No symbol : DIN standard type C (96 Contacts) A : Original type 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 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, 64, 90, 100 3-row: 96	⑥ Contact type : DSA: Straight through hole type

●PCN 13E-\*S-2.54 DSA (Socket)

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

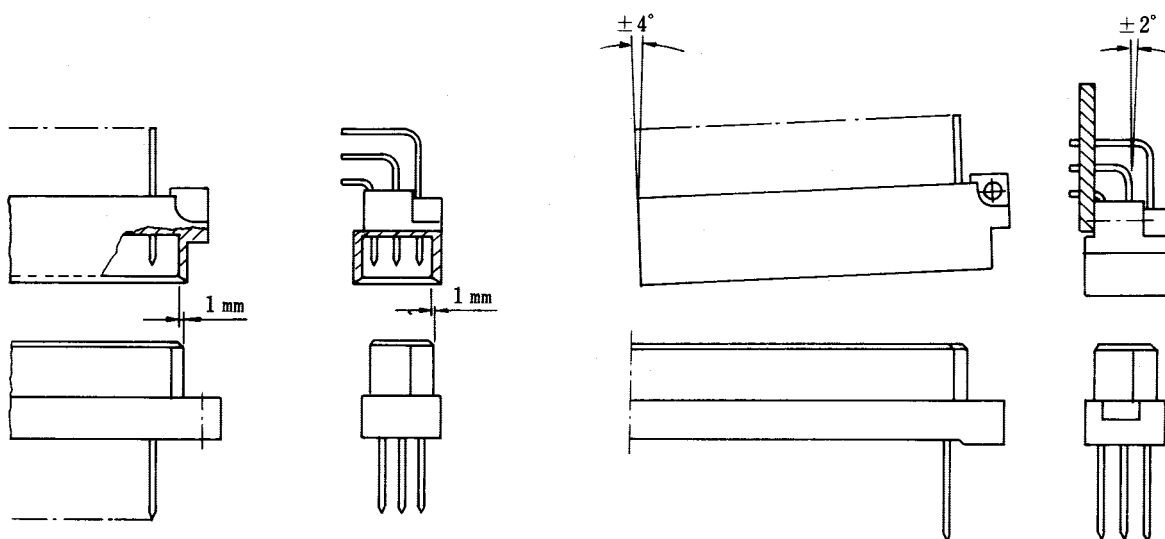
①   ②   ③   ④   ⑤   ⑥

① Series name : PCN13	④ S : Socket
② No symbol : Standard type 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, 64, 90, 100 3-row: 48, 96	⑥ Contact style : DS: Right angle through hole type : 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).

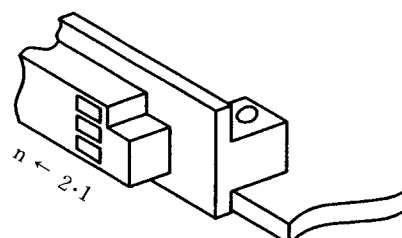
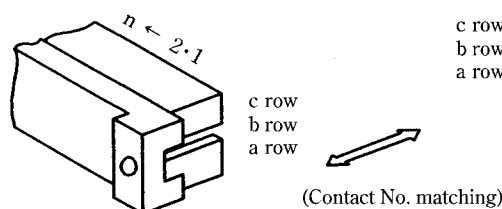
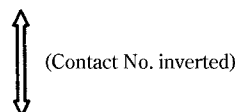
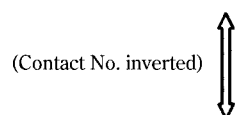
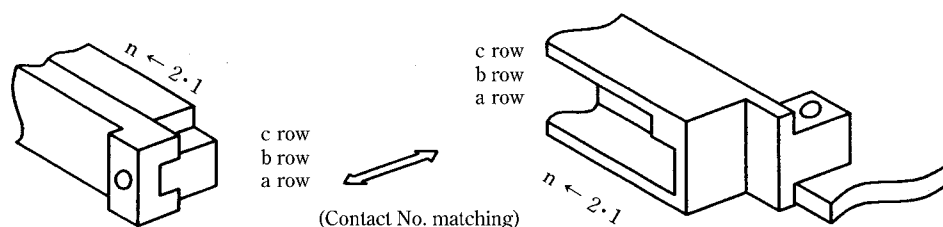
- DIN standard type C and type R represent the 3-row 96 contacts type, including 32 contacts in single-row.
- DIN standard type B and type Q represent the 2-row 64 contacts type, including 32 contacts in single-row.

### 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

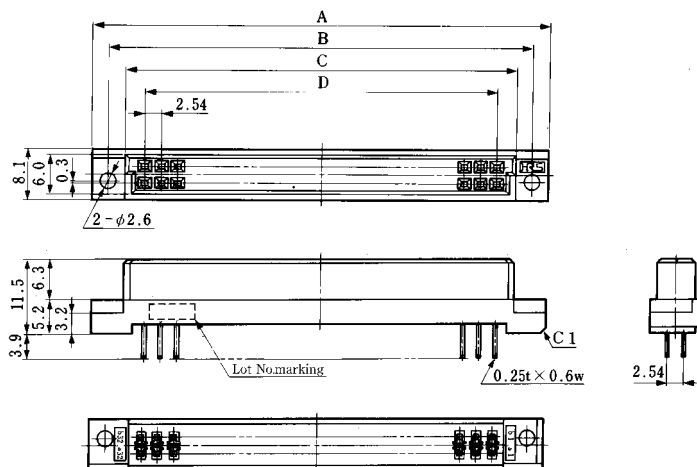
Type R (Type Q)

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).

## PCN13 Series

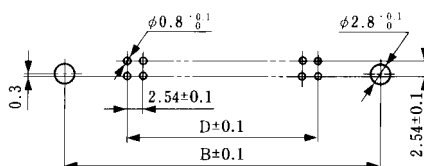
### Socket: 2-row Straight Type



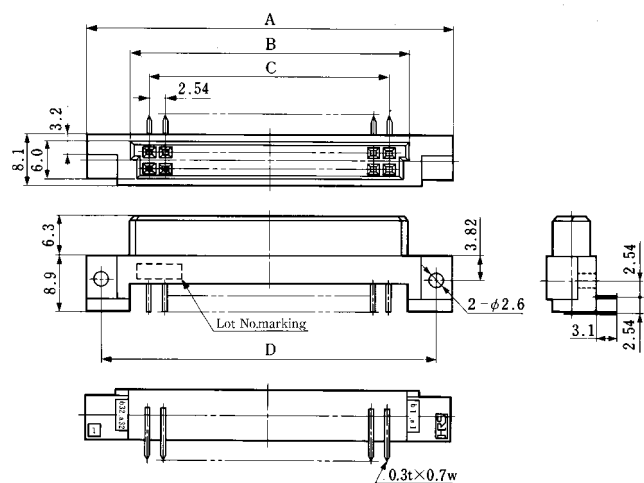
Unit:mm

Part Number	CL No.	Number of Contacts	A	B	C	D	RoHS
PCN13- 16S-2.54DSA(71)	CL583-3001-8-71	16	34.04	29.04	24.04	17.78	YES
PCN13- 20S-2.54DSA(71)	CL583-3002-0-71	20	39.12	34.12	29.12	22.86	
PCN13- 32S-2.54DSA(71)	CL583-3004-6-71	32	54.36	49.36	44.36	38.1	
PCN13- 44S-2.54DSA(71)	CL583-3005-9-71	44	69.6	64.6	59.6	53.34	
PCN13- 50S-2.54DSA(71)	CL583-3006-1-71	50	77.22	72.22	67.22	60.96	
PCN13- 64S-2.54DSA(71)	CL583-3007-4-71	64	95	90	85	78.74	
PCN13- 90S-2.54DSA(71)	CL583-3008-7-71	90	128.02	123.02	118.02	111.76	
PCN13-100S-2.54DSA(71)	CL583-3009-0-71	100	140.72	135.72	130.72	124.46	

### PCB mounting pattern



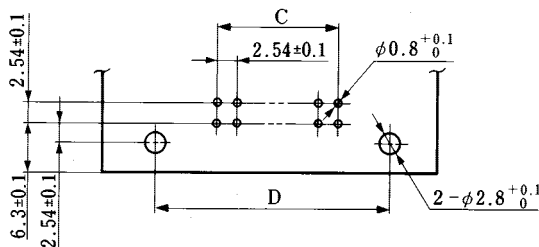
### Socket: 2-row Right Angle Type



Unit:mm

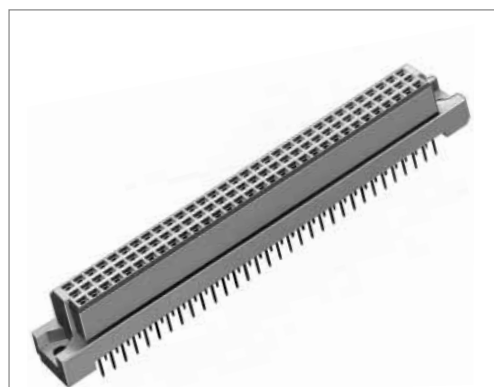
Part Number	CL No.	Number of Contacts	A	B	C	D	RoHS
PCN13- 16S-2.54DS(71)	CL583-3031-9-71	16	38.02	24.04	17.78	33.02	YES
PCN13- 20S-2.54DS(71)	CL583-3032-1-71	20	43.1	29.12	22.86	38.1	
PCN13- 30S-2.54DS(71)	CL583-3033-4-71	30	55.8	41.82	35.56	50.8	
PCN13- 32S-2.54DS(71)	CL583-3034-7-71	32	58.34	44.36	38.1	53.34	
PCN13- 44S-2.54DS(71)	CL583-3035-0-71	44	73.58	59.6	53.34	68.58	
PCN13- 50S-2.54DS(71)	CL583-3036-2-71	50	81.2	67.22	60.96	76.2	
PCN13- 64S-2.54DS(71)	CL583-3037-5-71	64	98.98	85	78.74	93.98	
PCN13-100S-2.54DS(71)	CL583-3039-0-71	100	144.7	130.72	124.46	139.7	

### PCB mounting pattern

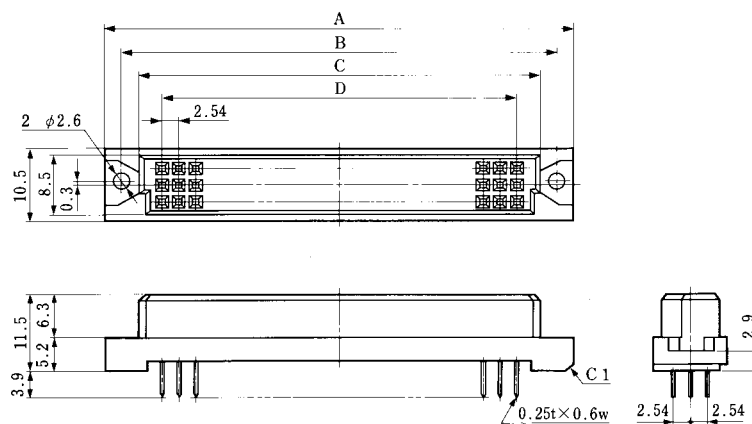


## PCN Series Product Compliant to DIN41612/EC603-2 Standard

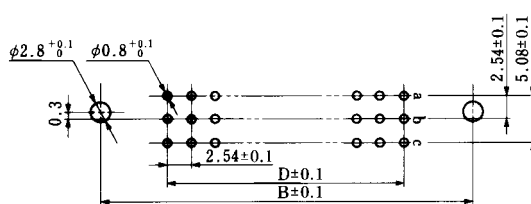
### ■Socket: 3-row Straight Type



PCN13-48S-2.54DSA(71)  
96S



### ◆PCB mounting pattern

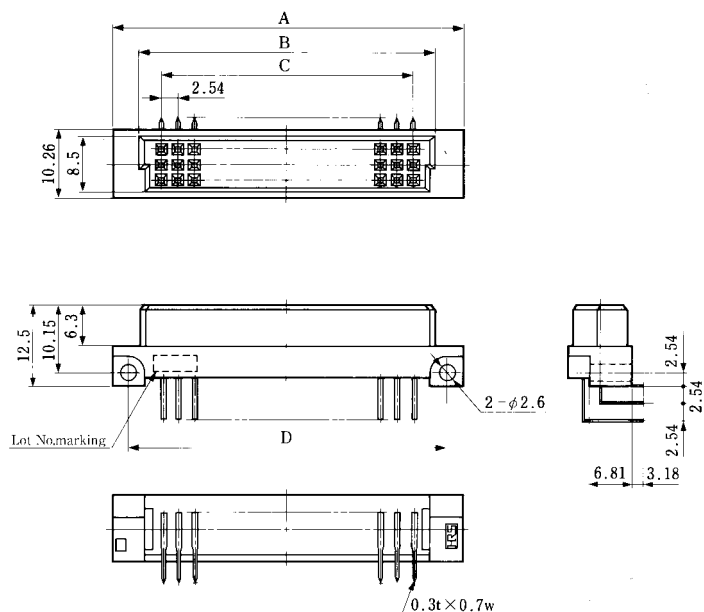


Unit:mm							
Part Number	CL No.	Number of Contacts	A	B	C	D	RoHS
PCN13-48S-2.54DSA(71)	CL583-3010-9-71	48	54.36	50	44.36	38.1	YES
PCN13-96S-2.54DSA(71)	CL583-3011-1-71	96	95	90	85	78.74	

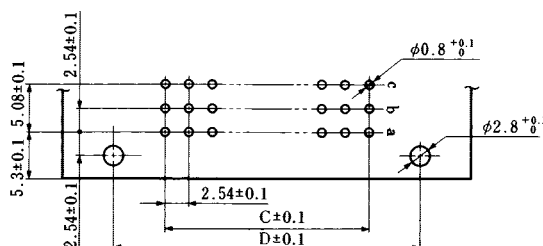
### ■Socket: 3-row Right Angle Type



PCN13-48S-2.54DS(71)  
96S



### ◆PCB mounting pattern



Unit:mm							
Part Number	CL No.	Number of Contacts	A	B	C	D	RoHS
PCN13-48S-2.54DS(71)	CL583-3040-0-71	48	53.36	44.36	38.1	48.26	YES
PCN13-96S-2.54DS(71)	CL583-3041-2-71	96	94	85	78.74	88.9	

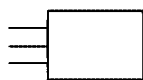
# Product Compliant to DIN41612/IEC603-2 Standard

## PCN Series

### Pin Header Side

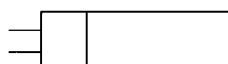
●Straight through hole type

PCN10 - \* \*P-2.54DSA



●Stacking through hole type

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

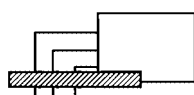


●Right angle through hole type (mounted on the board edge)

PCN10 - \* \*P-2.54DS

PCN12 - \* \*P-2.54DS

PCN12E - \* \*P-2.54DS



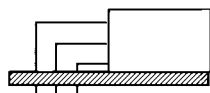
●Right angle through hole type (mounted on the board)

PCN10A - \* \*P-2.54DS

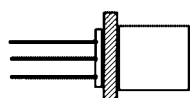
PCN10EA- \* \*P-2.54DS

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

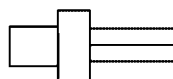
PCN12 - \* \*S-2.54DSA

PCN12E - \* \*S-2.54DSA

PCN13 - \* \*S-2.54DSA

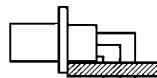
●Wrapping type

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



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

PCN10B - \* \*S-2.54DS

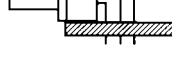


●Right angle through hole type (mounted on the board)

PCN10A - \* \*S-2.54DS

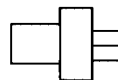
PCN10C - \* \*S-2.54DS

PCN13 - \* \*S-2.54DS



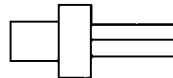
●Press fit short pin type

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

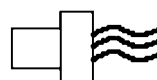


●Press fit long pin type

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



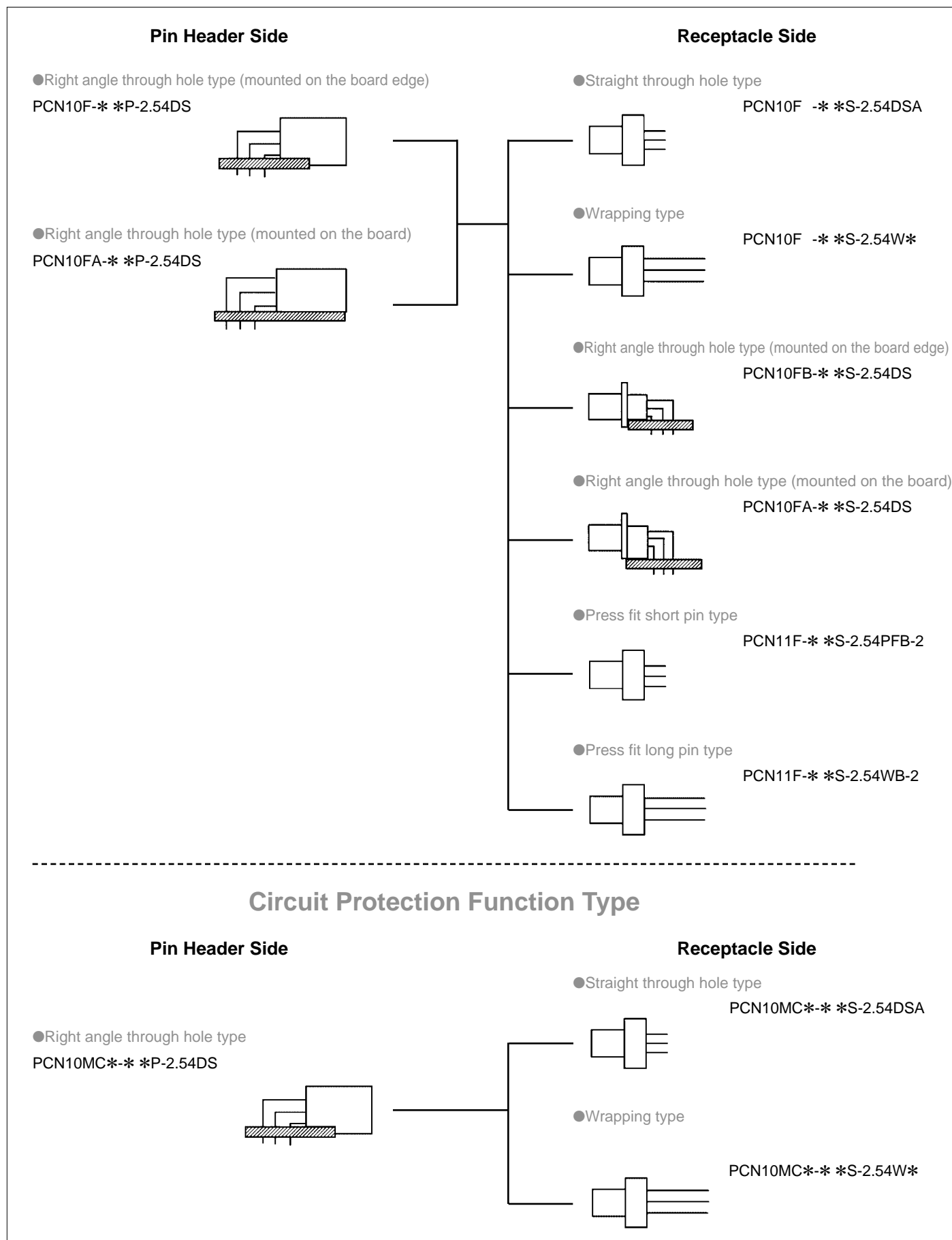
●Cable type



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



## Coaxial Connector and High Current Contact Composite Type



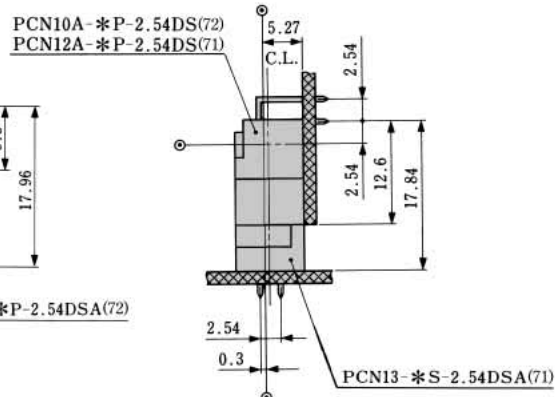
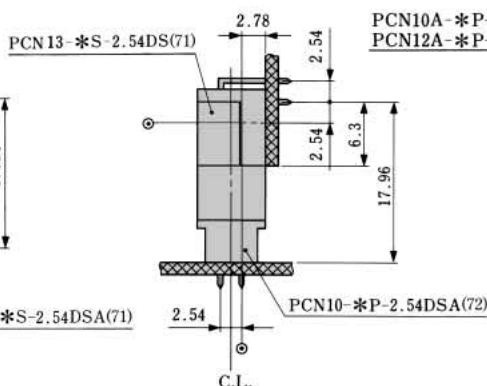
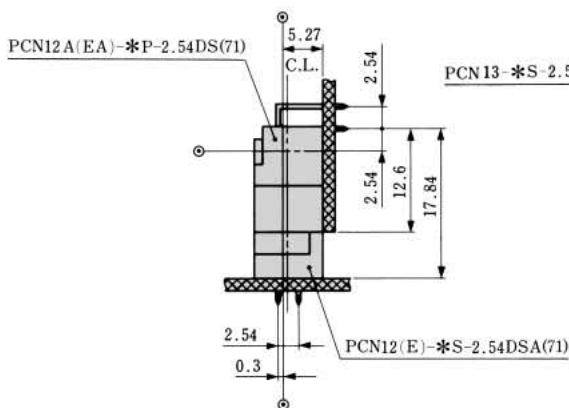
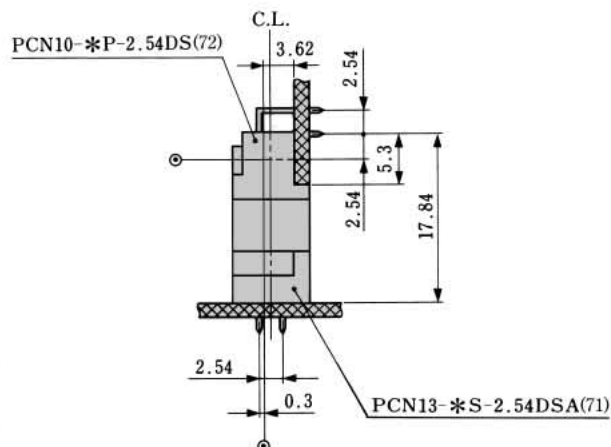
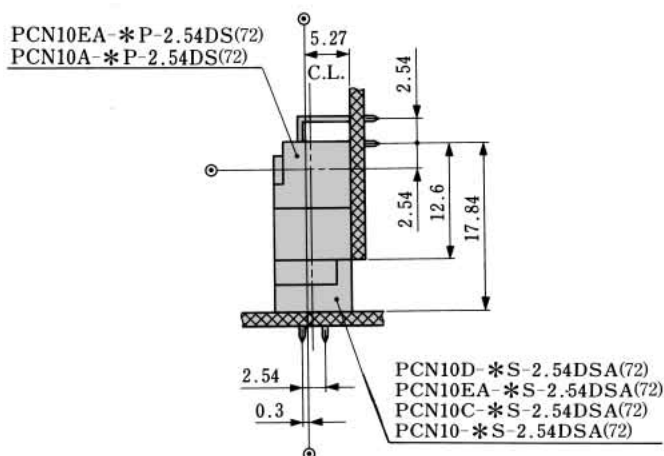
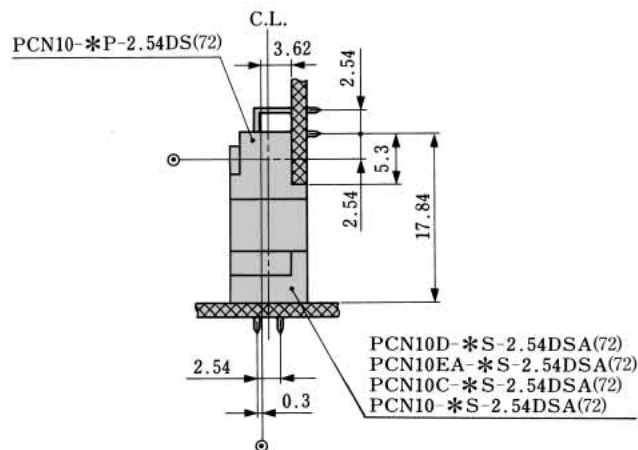
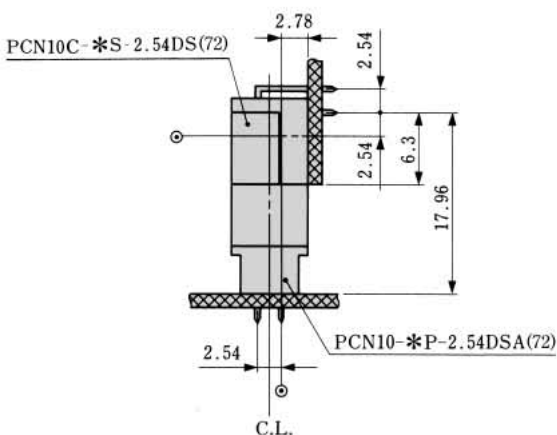
## ◆ Application Pattern

### ● Vertical Connection

#### ● 2-row type

● : Mounting hole center

C.L. : Center line

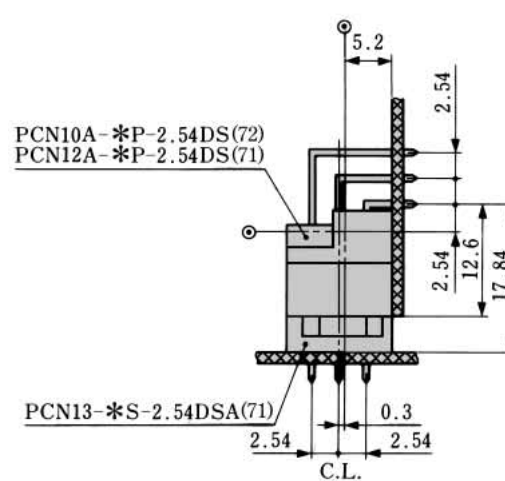
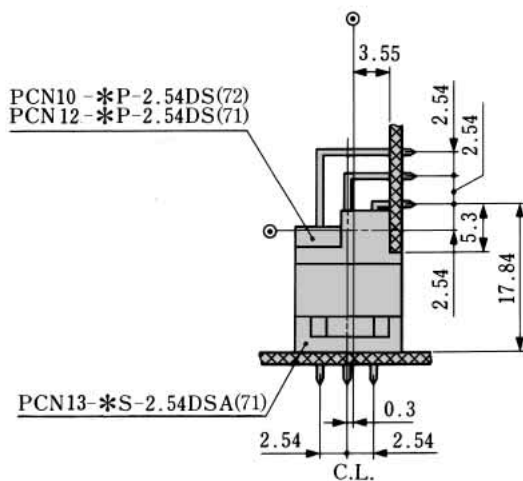
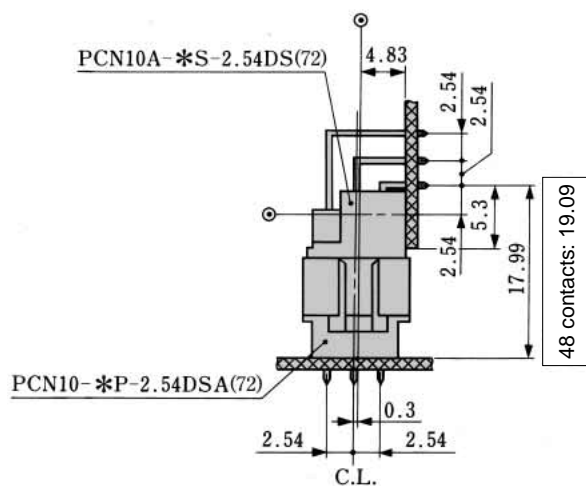
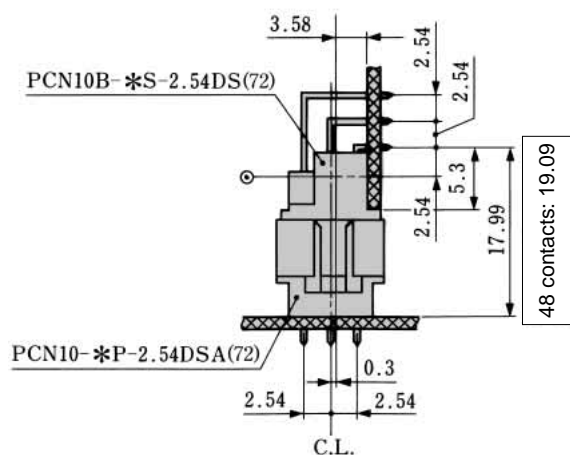
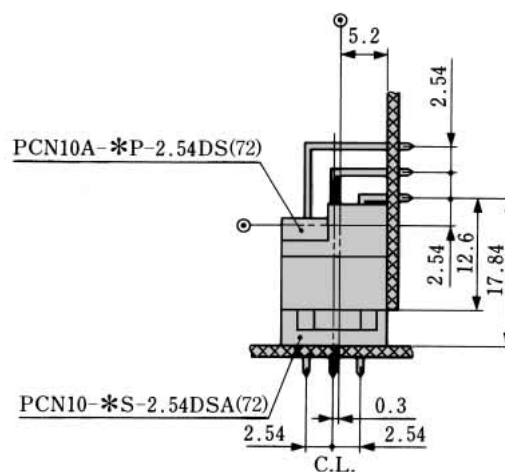
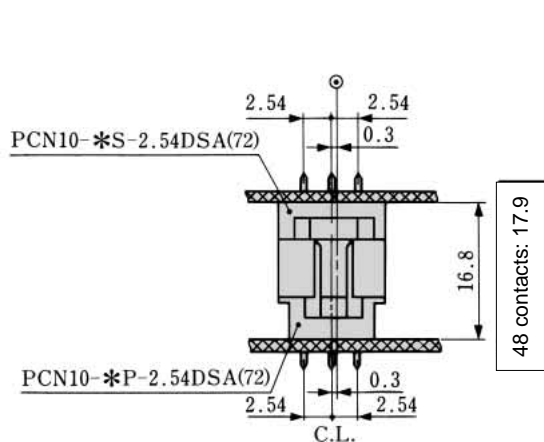


PCN Series Product Compliant to DIN 41612/EC603-2 Standard

● 3-row type

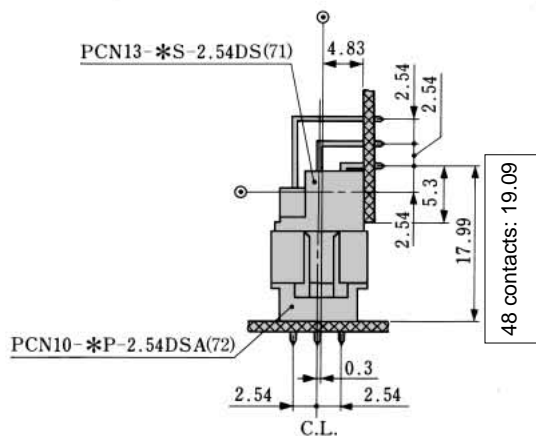
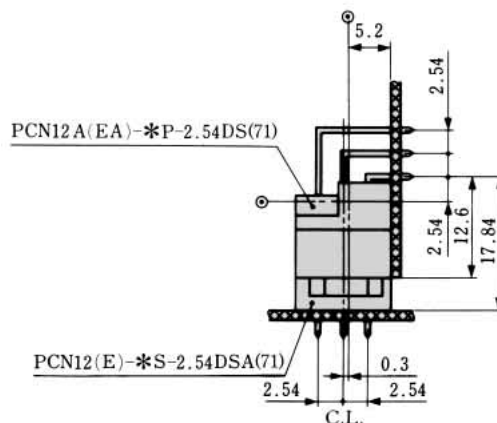
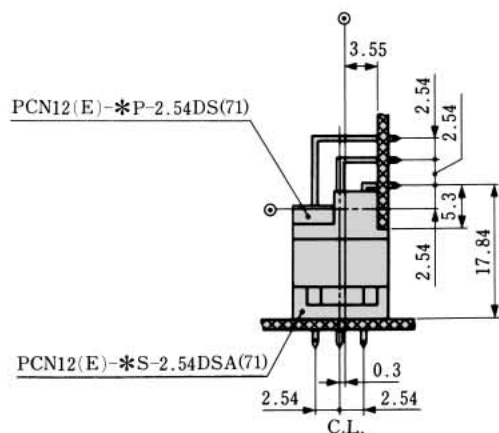
⊙ : Mounting hole center

C.L. : Center line

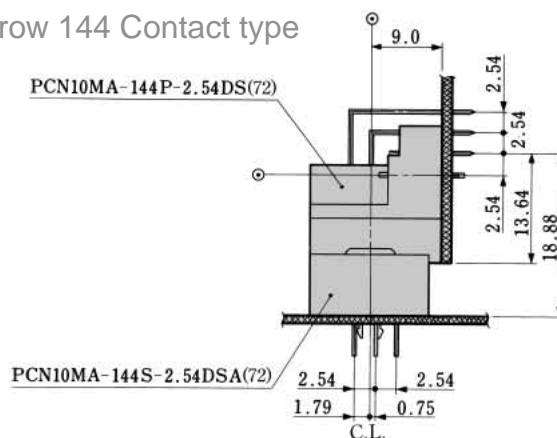


● : Mounting hole center

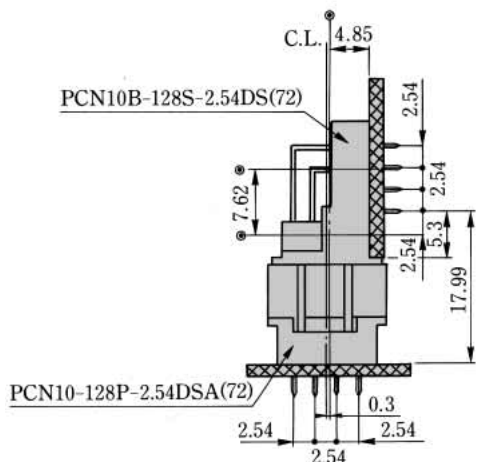
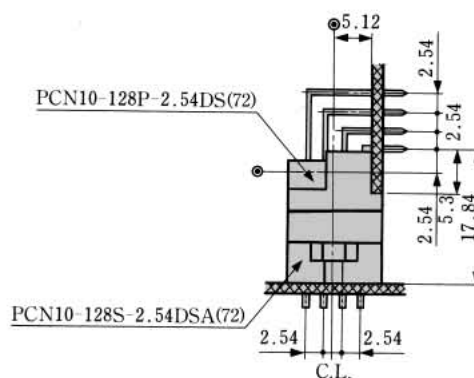
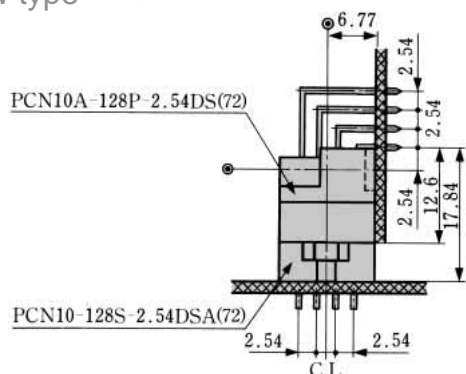
C.L. : Center line



### ●3-row 144 Contact type



### ●4-row type



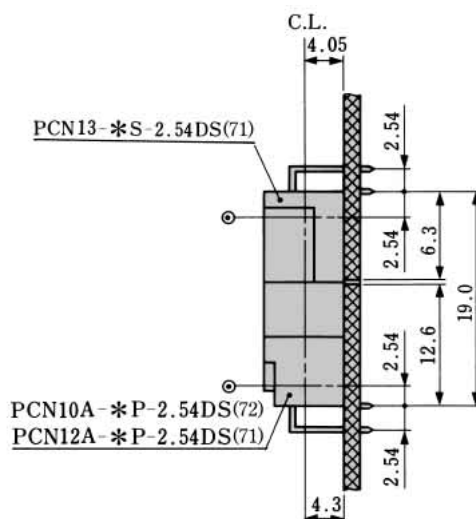
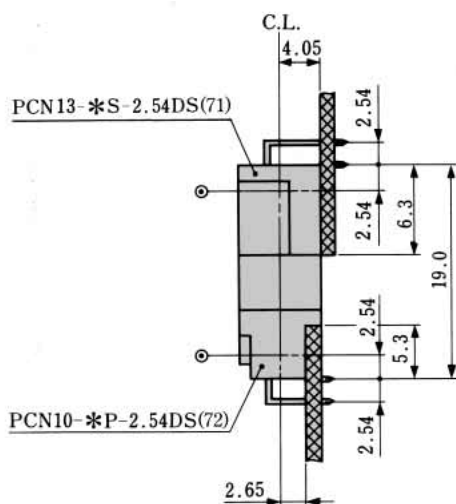
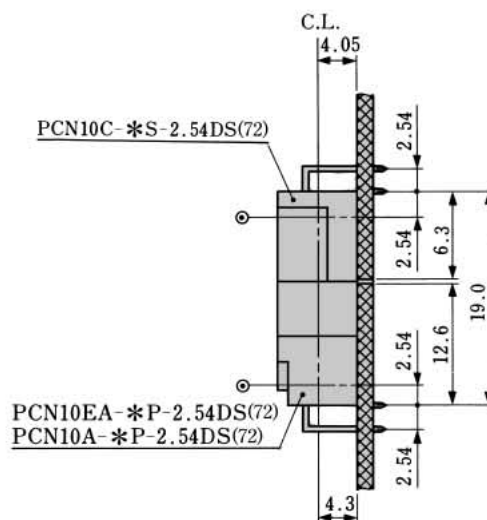
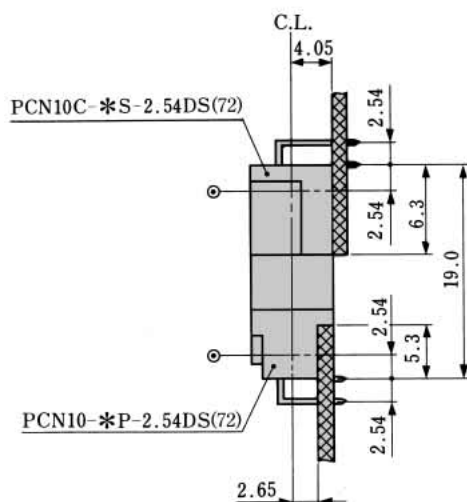
# PCN Series Product Compliant to DIN 41612/EC603-2 Standard

## Application Pattern

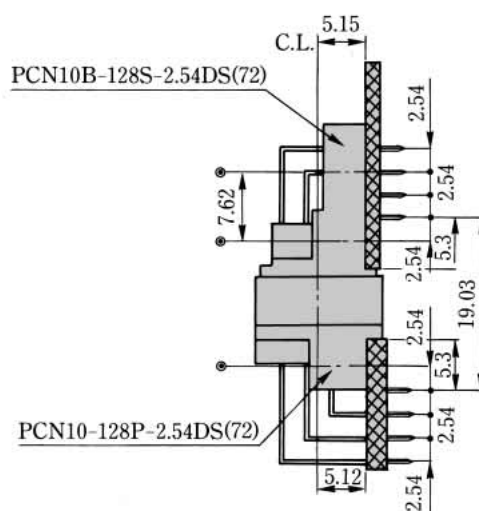
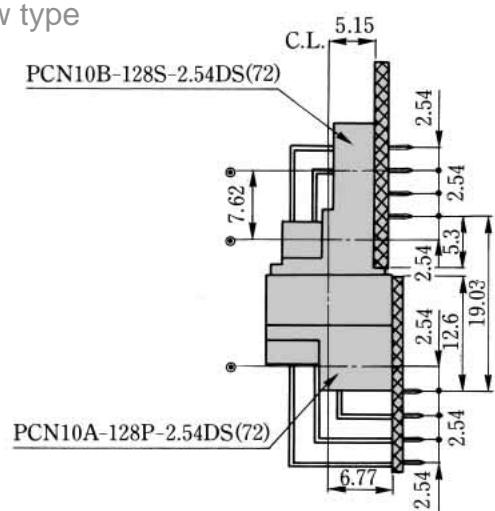
### Horizontal Connection

#### 2-row type

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



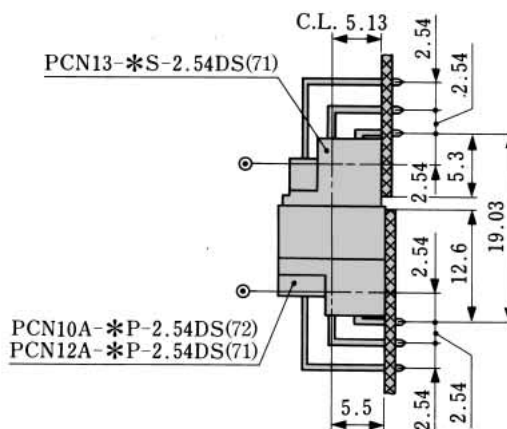
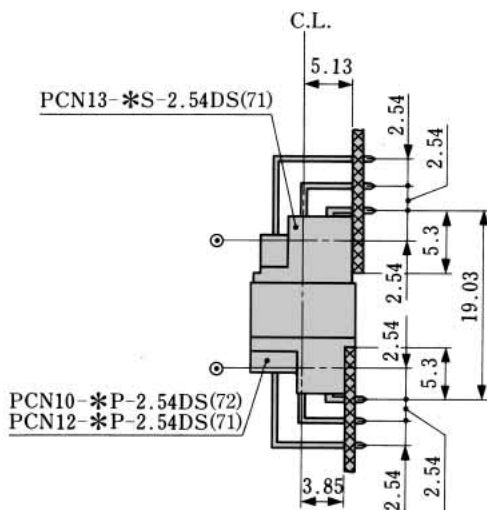
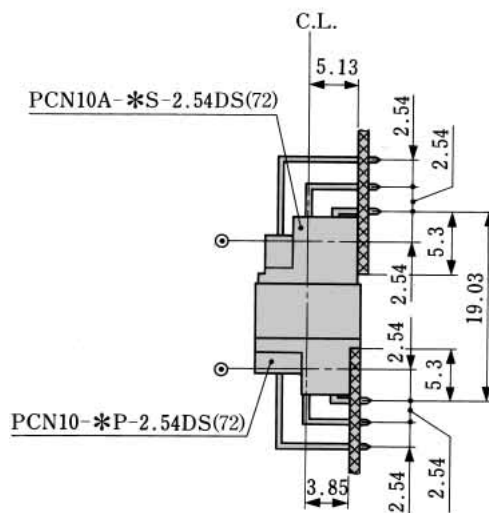
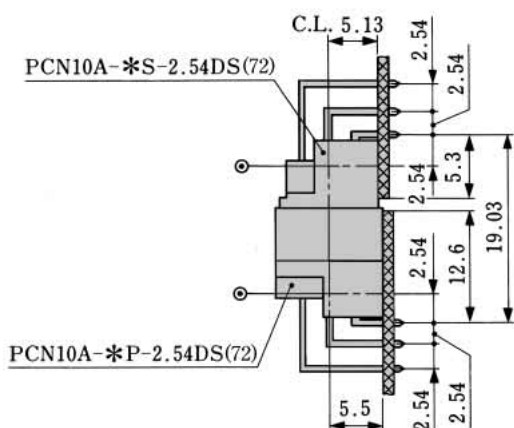
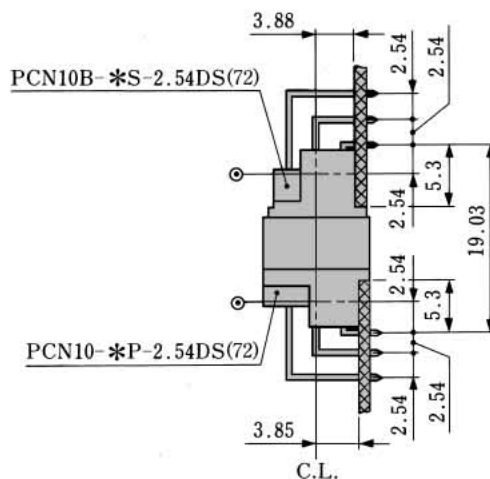
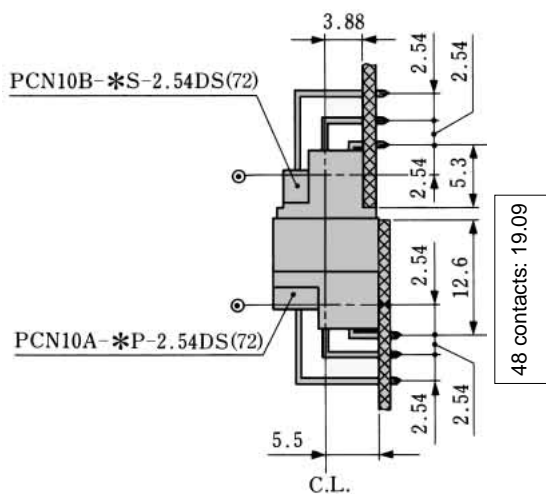
#### 4-row type



● 3-row type

● : Mounting hole center

C.L. : Center line



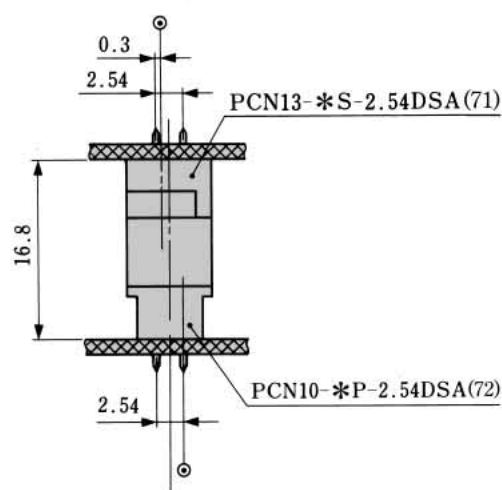
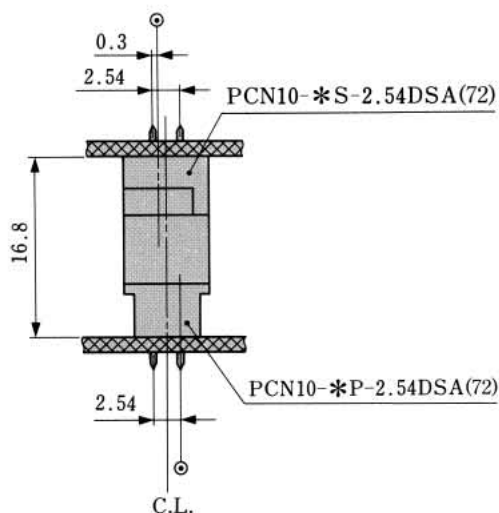
## PCN Series Product Compliant to DIN 41612/EC603-2 Standard

### ◆ Application Pattern

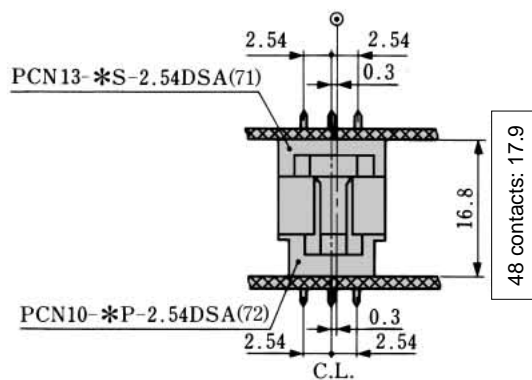
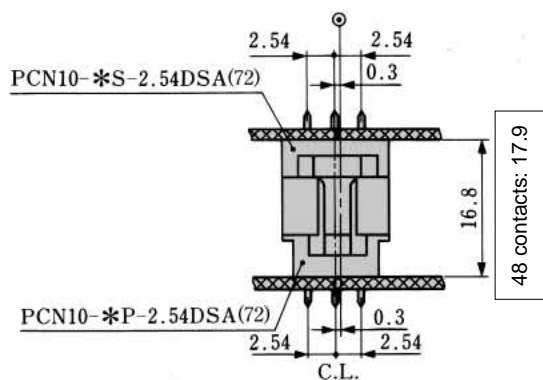
#### ● Horizontal Connection

##### ● 2-row type

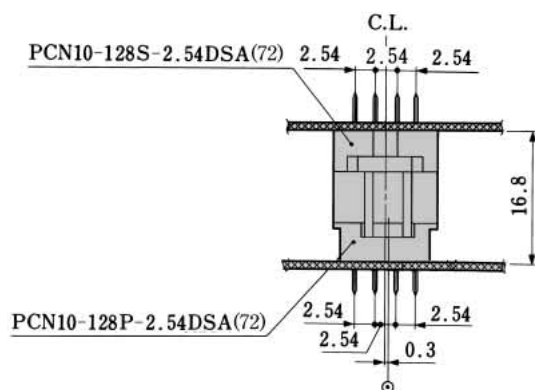
● : Mounting hole center  
 C.L. : Center line



##### ● 3-row type



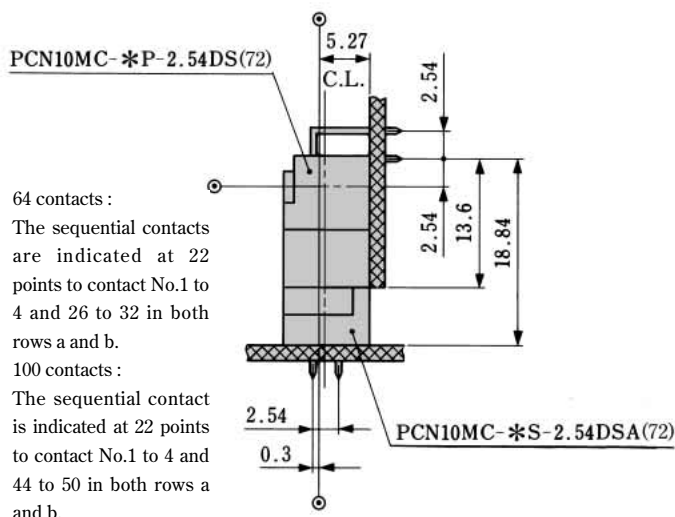
##### ● 4-row type



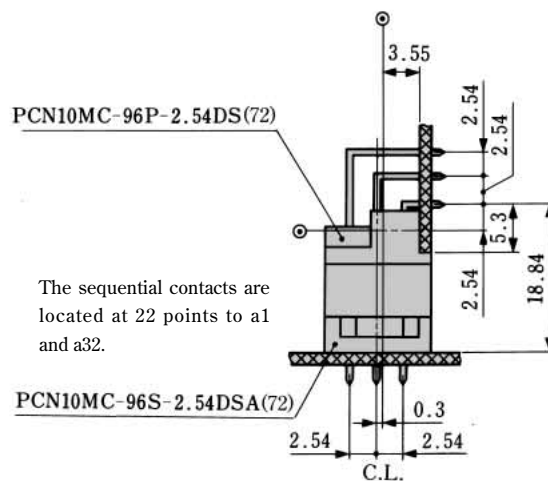
## ◆ Application Pattern

### ■ Circuit Protection Function Type

#### ● 2-row type

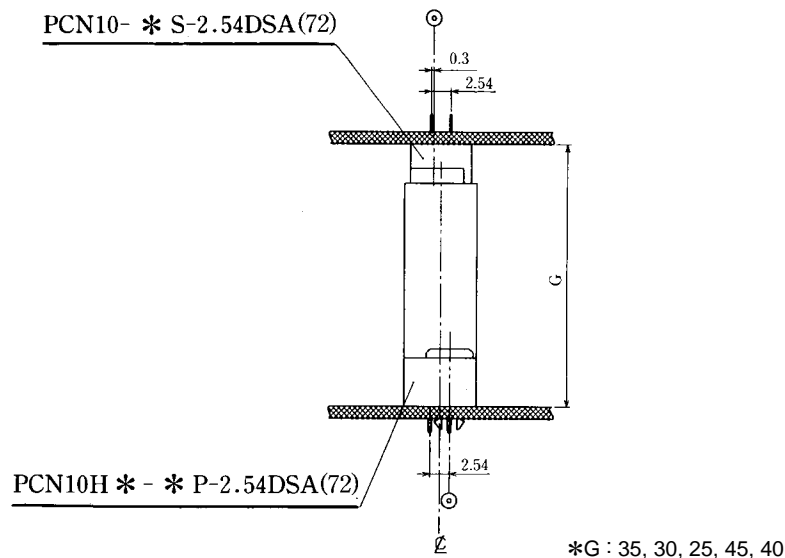


#### ● 3-row type



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

### ■ Stacking Connector



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





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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