

## T85002 Product Samples



### 二. Summary:

T85002 series cabinet connectors are special products for modular power supply interfaces which can be completely interchangeable with ELCON products of the same types. This series adopt advanced Crown plug holes as the contact pieces, which provide the products with high dynamic contact reliability.

T85002 series cabinet connectors have multiple models including T85002-15, 18, 19, 25, 29, 37 and 52, etc.; the products are divided into pin connectors (sockets) and hole connectors (plugs), in which contact pins and plug holes are installed respectively. Types of end connection between the contact pins, plug holes and wires are: crimping type, welding type and PCB type; and the types of end connection between 4# and 0# contact pins and plug holes with the wires are: crimping type, internal thread type and external thread type.

To meet the different requirements of different customers for various circuits, T85002 series cabinet connectors are provided with contact pins of the following specifications: standard type, elongated type and the shortened type.

**Note:** the Crown material adopts Beryllium with high elasticity and high strength. Plug holes adopting the Crown structure are provided with smooth circular interface which enables soft plugging and unplugging and at the same time ensures the max. area of contact. Therefore, Plug holes adopting the Crown structure are provided with high contact resistance (declined voltage), low temperature rise and high shock and vibration resistance, which therefore provides Plug holes adopting the Crown structure with high dynamic contact reliability.

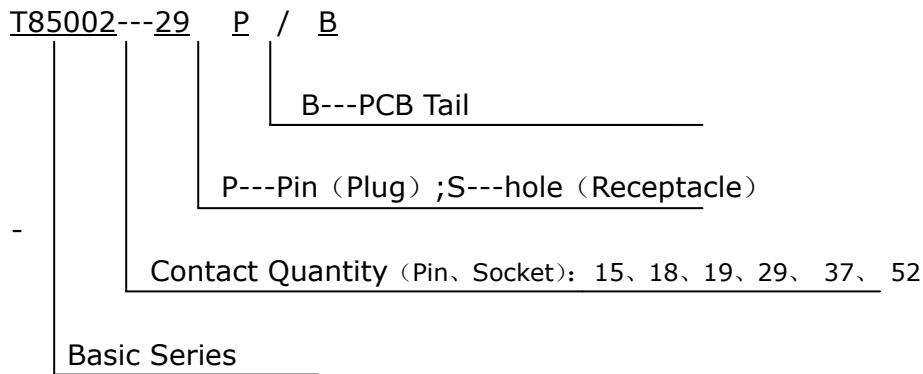
## EDCON-COMPONENTS

### 三. Technological Characteristics:

Working Temperature: -55□-----125□  
 Working Voltage: 250V  
 Working Current: See Table 1  
 Contact Resistance: See Table 1  
 Insulation Resistance: ≥5000MΩ  
 Arc-resistance Strength: 1500V(DC)  
 Mechanical Endurance: 1000 Times (Connection and Separation)

### 四. Product Type:

#### Connector Type:



**Table 1**

Item	Contact Type	Working Current (A)	Contact Resistance (mΩ)	Mated Wire		Note
				AWG	mm	
1	20#	5	5.0 (6.7)	20----24 6	0.24—0.	
2	16#	15	2.5 (3.5)	16----18 .2	1.0-----1	
3	12#	35	1.0 (1.6)	12----14 2.0----3.0		
4	8#	75	0.5 (0.5)	10-----8 5.0----8.0		
5	0#	200	0.01 (0.013)	1/0	53	

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**Contacts (pin, hole) NO and Dimension:**

**20#、16#、12#、8# Pin Dimension**

Table 2

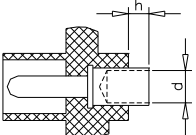
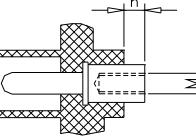
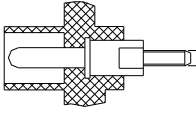
Size	Termination	Type	Part Number	Port Dimension	d	L	h
20#	Crimp (Y Type)	Standard	T85002.111.001		1.01	8.12	/
		Premate	T85002.111.001L			11.93	
		Postmate	T85002.111.001S			6.85	
	Solder Cup (H Type)	Standard	T85002.112.001			8.12	4.82
		Premate	T85002.112.001L			11.93	
		Postmate	T85002.112.001S			6.85	
	PCB Tail (P Type)	Standard	T85002.113.001			8.12	4.06
		Premate	T85002.113.001L			11.93	
		Postmate	T85002.113.001S			6.85	
16#	Crimp (Y Type)	Standard	T85002.111.002		1.57	8.38	/
		Premate	T85002.111.002L			12.19	
		Postmate	T85002.111.002S			7.36	
	Solder Cup (H Type)	Standard	T85002.112.002			8.38	4.31
		Premate	T85002.112.002L			12.19	
		Postmate	T85002.112.002S			7.36	
	PCB Type (P Type)	Standard	T85002.113.002			8.38	4.06
		Premate	T85002.113.002L			12.19	
		Postmate	T85002.113.002S			7.36	
12#	Crimp (Y Type)	Standard	T85002.111.003		2.38	10.92	/
		Premate	T85002.111.003L			11.68	
		Postmate	T85002.111.003S			9.90	
	Solder Cup (H Type)	Standard	T85002.112.003			10.92	4.31
		Premate	T85002.112.003L			11.68	
		Postmate	T85002.112.003S			9.90	
	PCB Type (P Type)	Standard	T85002.113.031			10.92	5.33
		Premate	T85002.113.003L			11.68	
		Postmate	T85002.113.003S			9.90	
8#	Crimp (Y Type)	Standard	T85002.111.004		3.60	10.92	/
		Premate	T85002.111.004L			12.19	
	Solder Cup (H Type)	Standard	T85002.112.004			10.92	4.31
		Premate	T85002.112.004L			12.19	
	PCB Type	Standard	T85002.113.004			10.92	

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	(P Type)	Premate	T85002.113.004L			12.19	5.33
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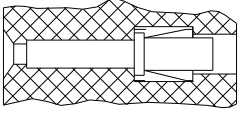
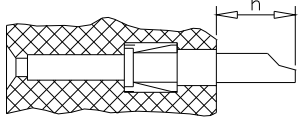
### 0# Pin Port dimension

Table3

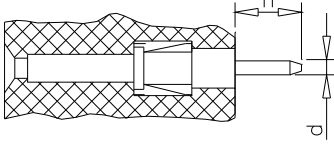
Termination	Type	Part Number	Port Dimension	d	h	M
Crimp (Y Type)	0#	T85002.111.006		11.5	6.35	—
Internal Thread (N Type)	0#	T85002.114.006		—	6.35	M6 x 1
External Thread (w Type)	0#	T85002.115.006		—	6.35	M6 x 1

### 20#、16#、12#、8# Socket Port Dimension

Table4

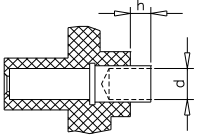
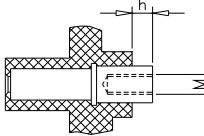
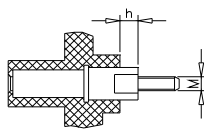
Termination	Type	Part Number	Port Dimension	d	h
Crimp (Y Type)	20#	T85002.101.00 1		—	—
	16#	T85002.101.00 2			
	12#	T85002.101.00 3			
	12#	T85002.101.00 3H			
	8#	T85002.101.00 4			
Solder Cup (H Type)	20#	T85002.102.00 1		—	—
	16#	T85002.102.00 2			
	12#	T85002.102.00 3			

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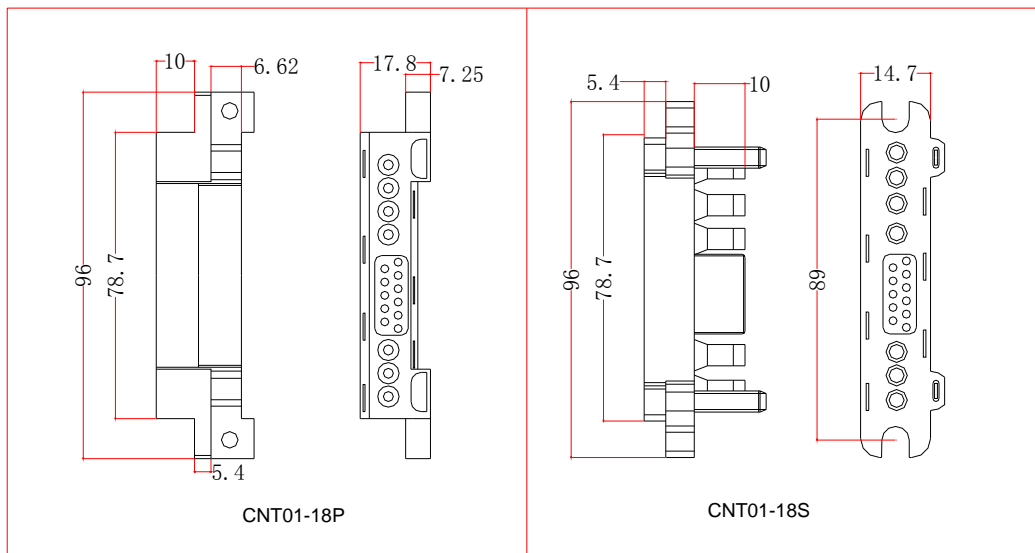
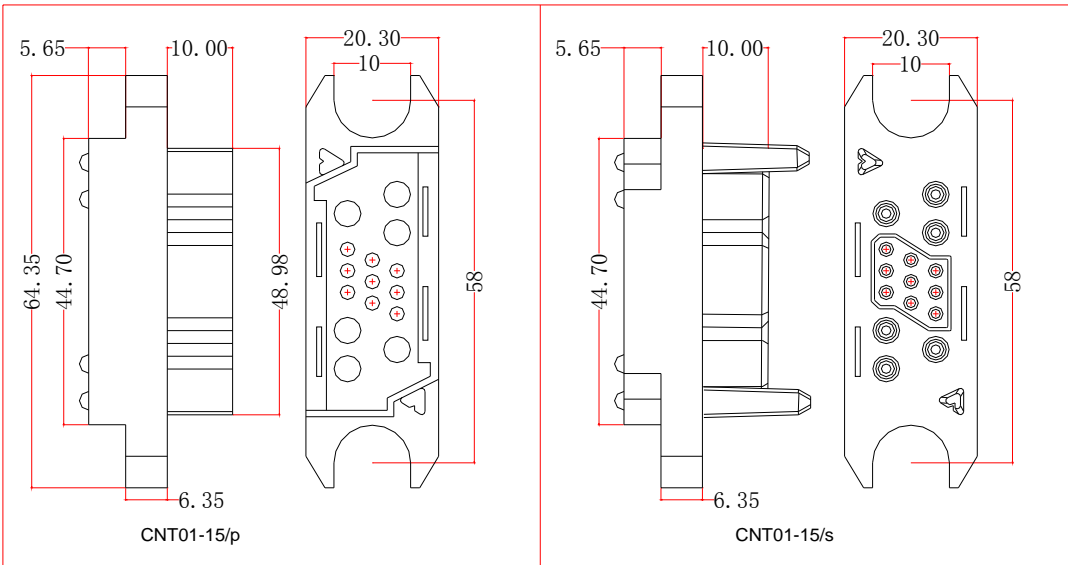
	12#	T85002.102.00 3H			
	8#	T85002.102.00 4			10.41
PCB Type (P Type)	20#	T85002.103.00 1		1.01	4.06
	16#	T85002.103.00 2		1.57	
	12#	T85002.103.00 4		2.38	5.33
	12#	T85002.103.00 3H		2.38	5.33
	8#	T85002.103.00 1		3.6	6.85

### 0# Jack Port Dimension

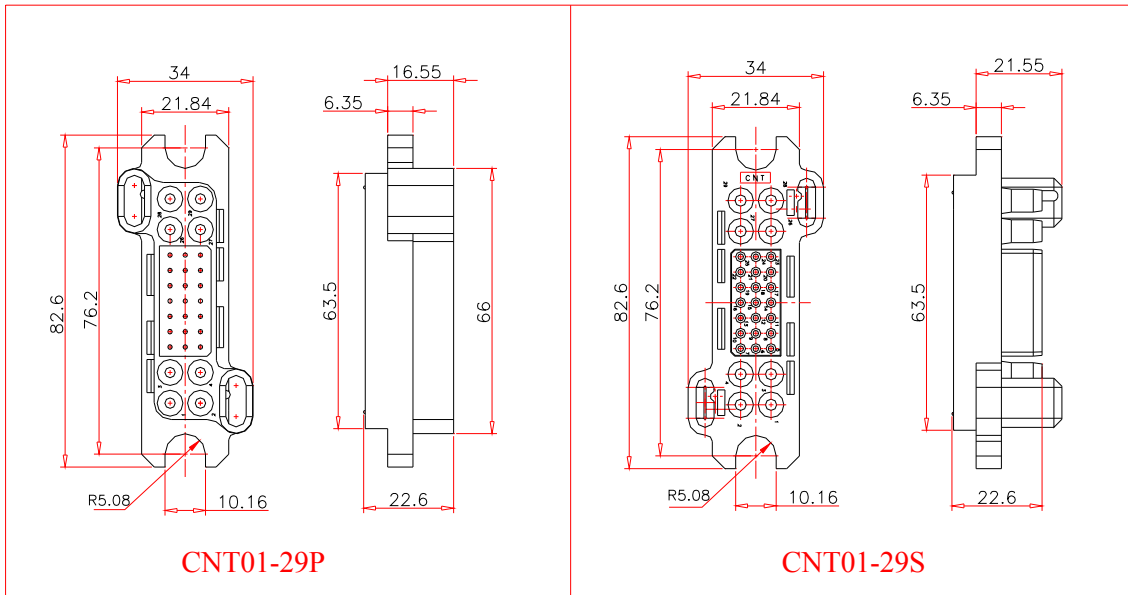
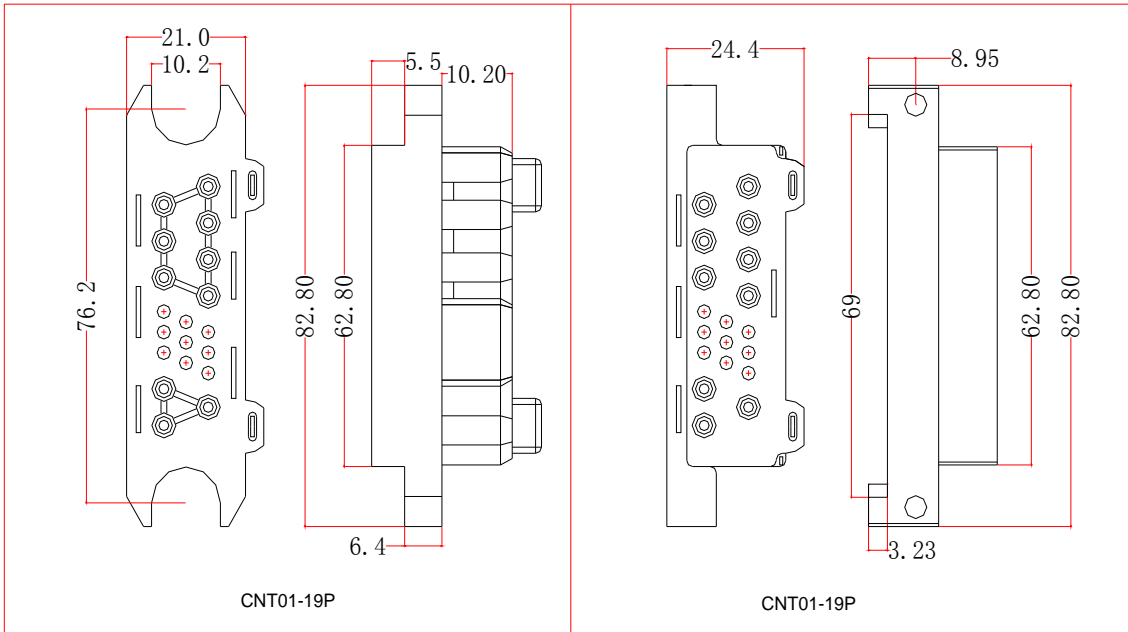
Table5

Termination	Type	Part Number	Port Dimension	d	h	M
Crimp (Y Type)	0#	T85002.101.006		11.5	6.35	/
Internal Thread (N Type)	0#	T85002.104.006		/	6.35	M6 x 1
External Thread (w Type)	0#	T85002.105.006		/	6.35	M6 x 1

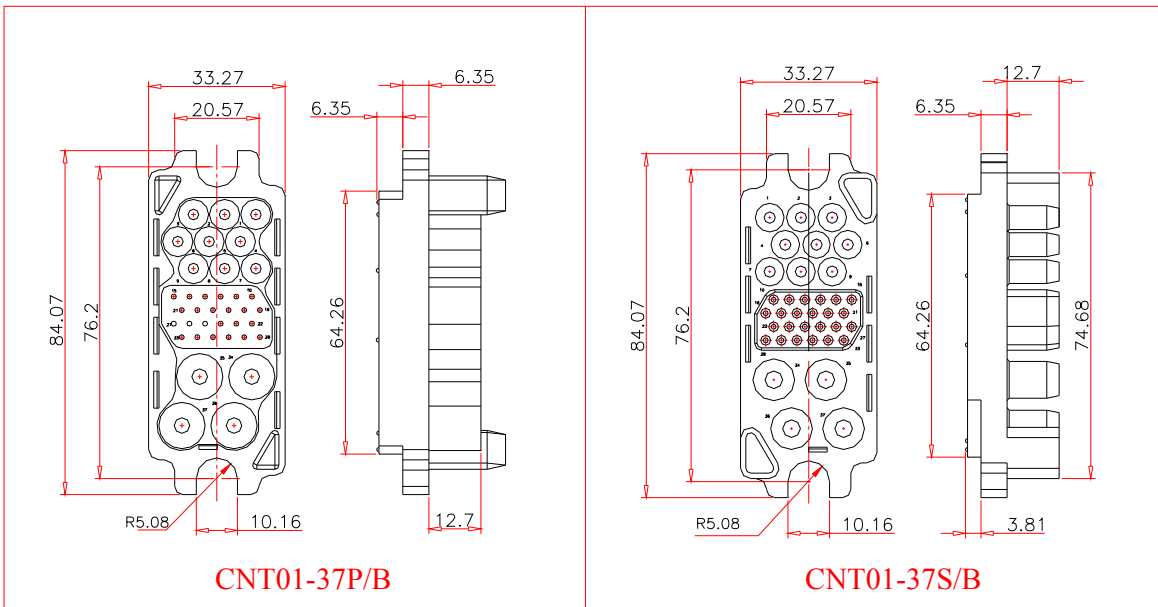
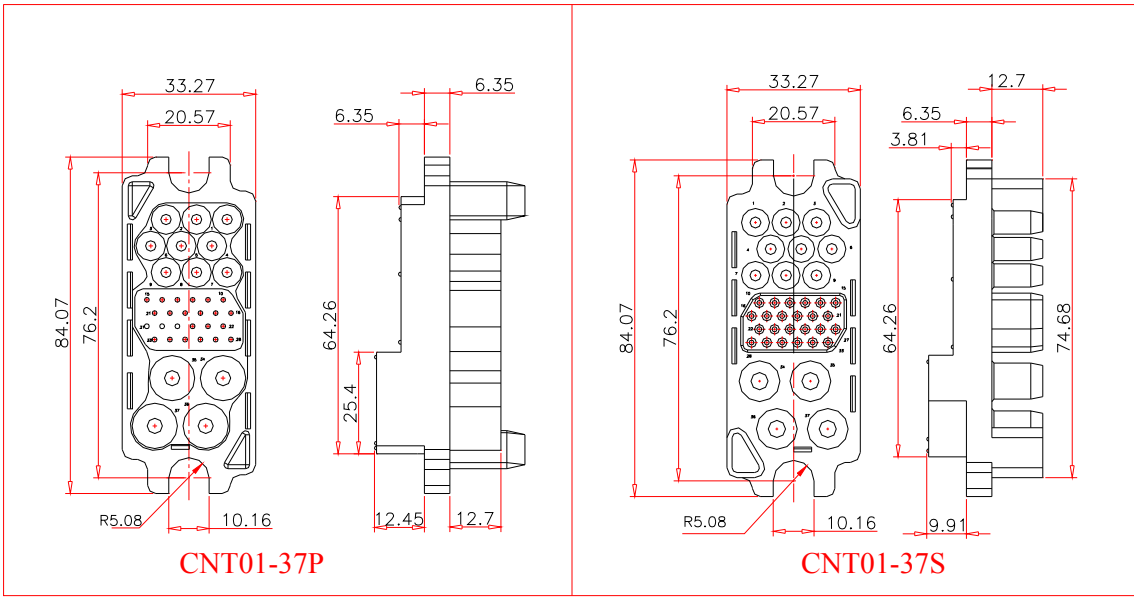
### 五. Contact Housing, Fixing Dimensions and Insulator Drilling Patterns



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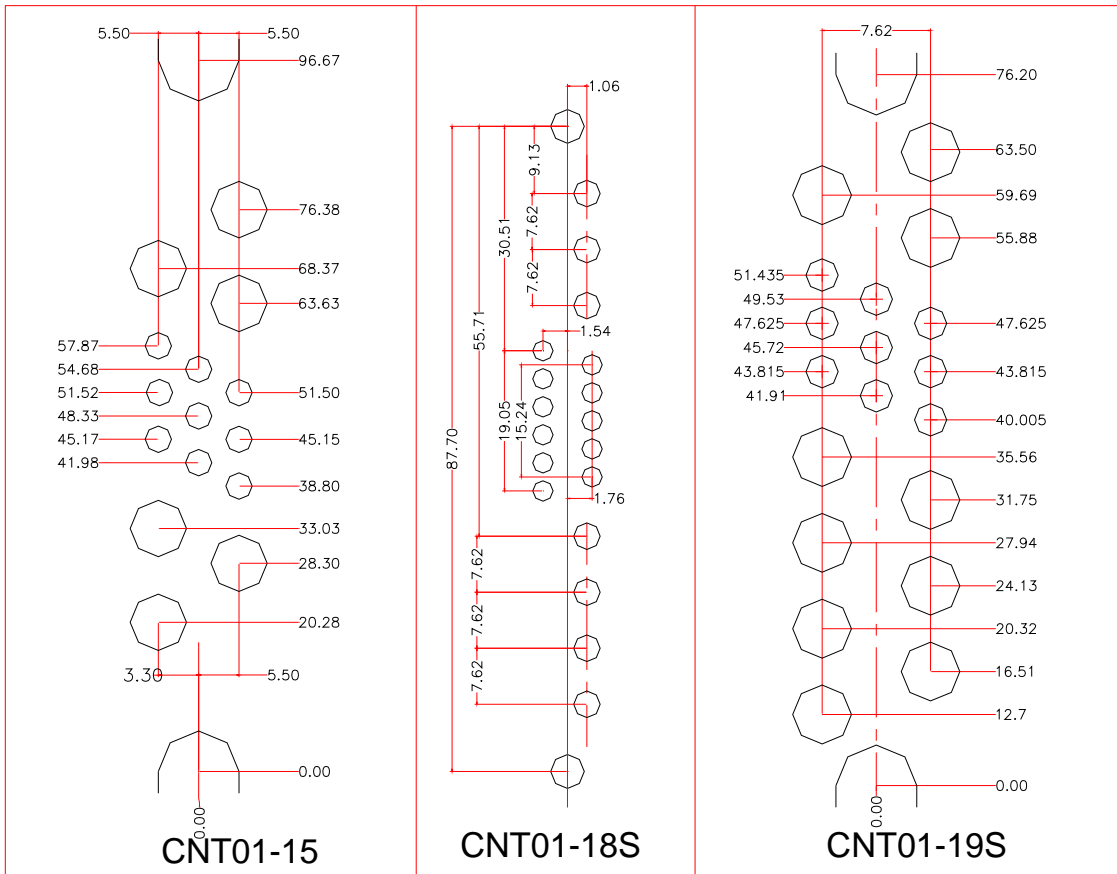
T85002-52P

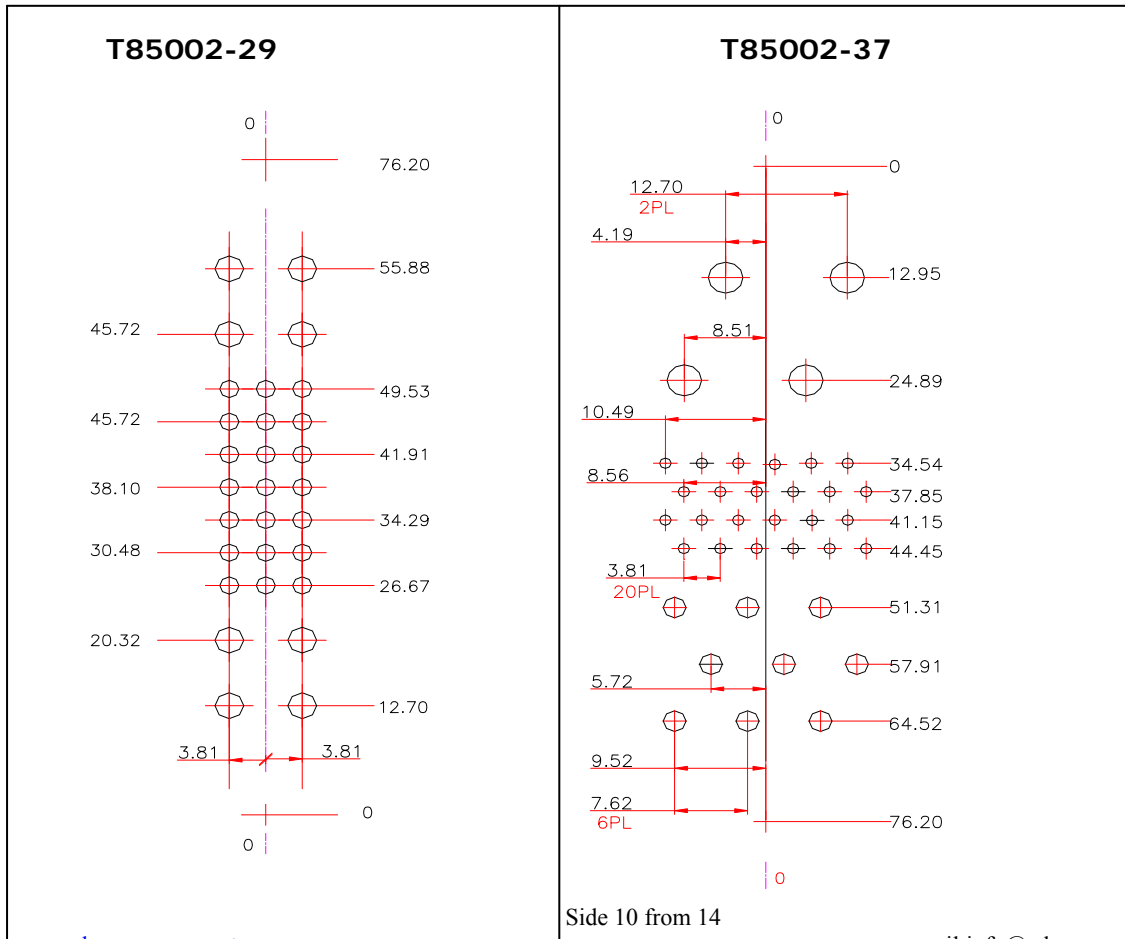
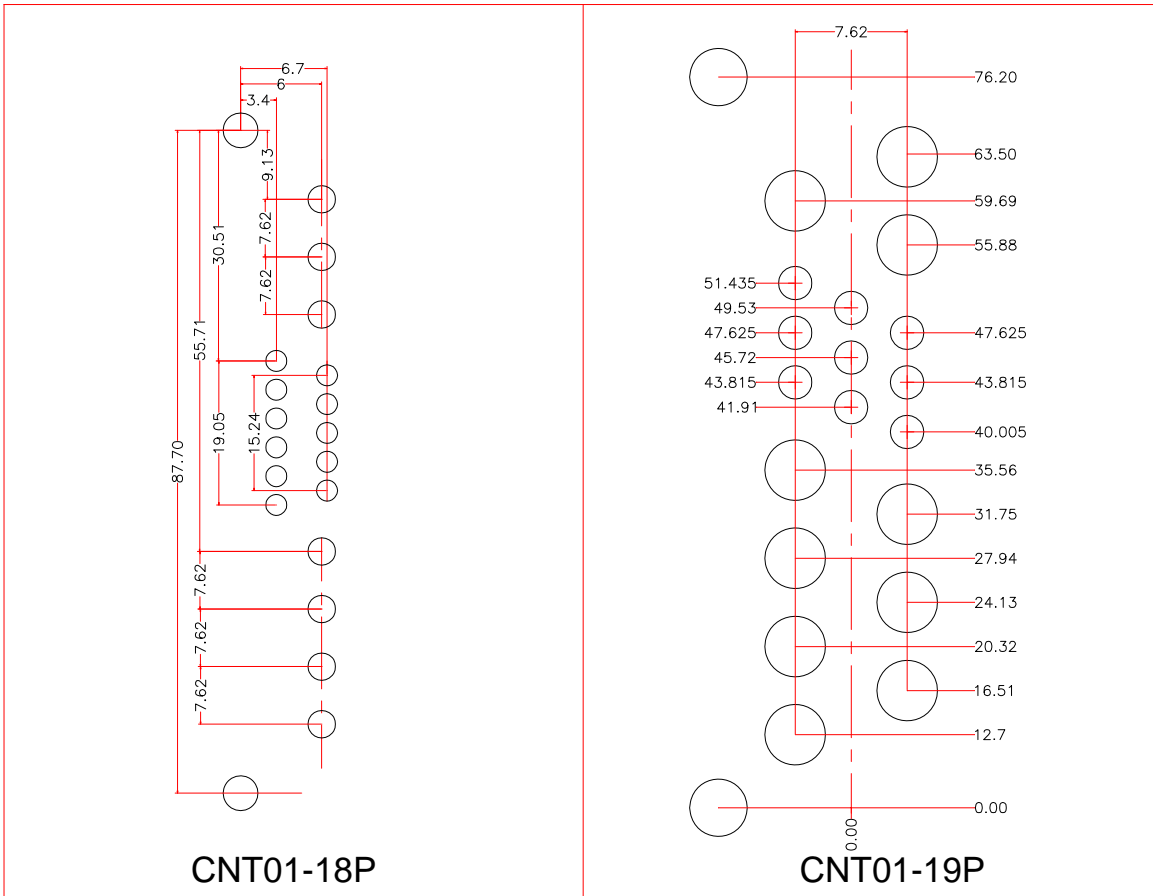
T85002-52S

## 六. PCB Mount Hole Patterns Dimension



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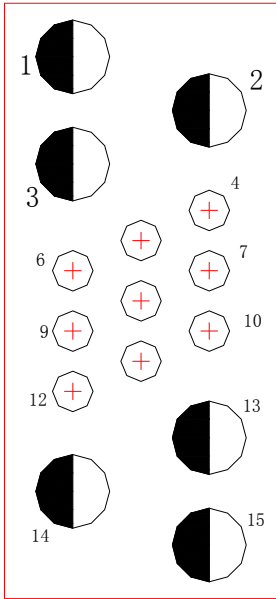




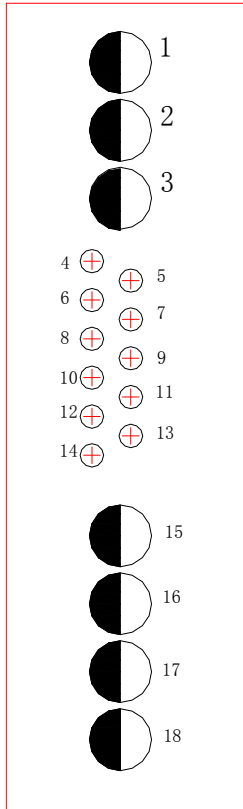
Insulator Drilling Patterns

20# — ⊕

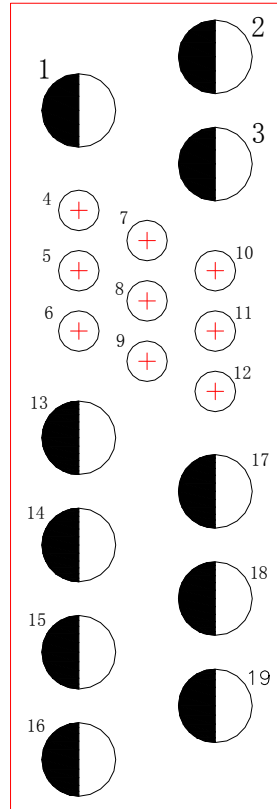
12# — ◐



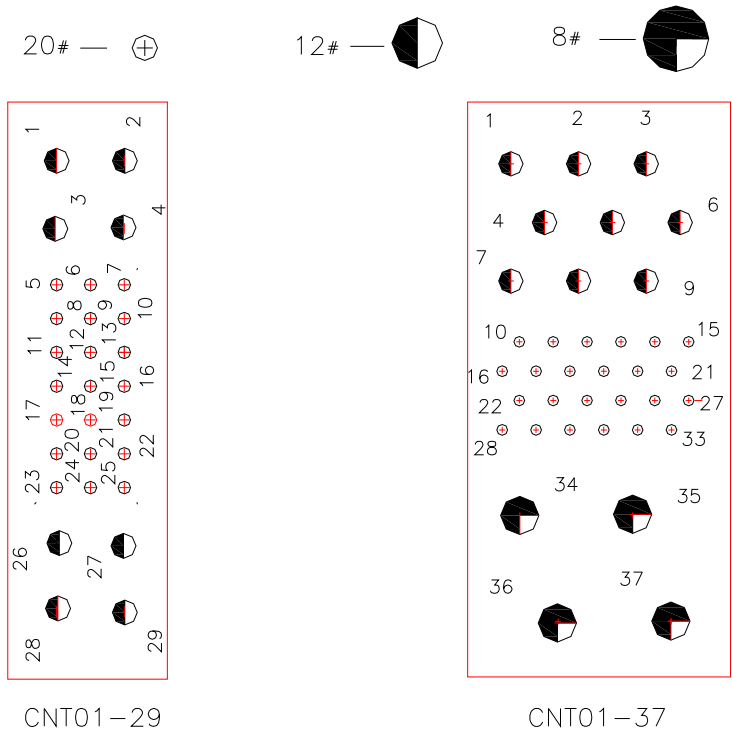
CNT01-15



CNT01-18



CNT01-19



**七. Tools and Note**

**Fetch and send Tools**

The contact parts of compression joint can be pulled into the connectors by the crimp tools or can be took from the connectors. The corresponding tools can be seen in Table6.

Table 6

Contact Type	Part No	Tools Color	Note
20#	M81969/14-10	Red/White	Plastic Type
16#	M81969/14-3	Blue/White	Plastic Type
12#	M81969/14-4	Yellow/White	Plastic Type
8#	T85002-Q-04	-----	Metal Type

**Crimp Tools**

When contact parts of compression joint connect with the wire. Crimp tools of compression joint should be used. The corresponding tools can be seen in the Table 7.

Table 7

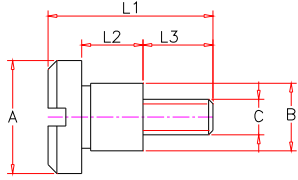
Contact Type	Tools Name	Part No	Note
20#、16#、12#、 8#、	Hand crimping tool	M22520/1-01	

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	Position for crimp contacts	M22520/1-02	
8#-10#	Hand crimping tool	M22520/23-01	
	Position for crimp contacts	M22520/23-02	
	Position for crimp contacts	M22520/23-09	
0#	Hand crimping tool	M22520/23-01	
	Position for crimp contacts	M22520/23-05	
	Position for crimp contacts	M22520/23-13	

**The installing screw**

Table 8

							
Part No	A	B	M	L1	L2	L3	Screw Quantity
T85002-29P (S)	Φ12.7	Φ7.6	M4	18.6	6.9	7.9	(各) 2
T85002-37P (S)							
T85002-52P (S)	Φ9.5	Φ6.3	M5	17.8	6.7	6.4	(各) 4

### 八. Ordering information

*T85002 Drawer Connector is the standard and series electrical connector, Which has the widely usage. Please choose the type of product before you make the order of our product.*

#### Selecting the type of product

1. According to the electrical current, choose the suitable specification of one contact based on the Form 1;
2. Choose the termination type: Namely you decide the Crimp(Y), Solder Cup(H) or PCB(P) type;
3. Checking out the corresponding part number name of one contact from Form Table 2.3.4.5 according to the termination type and specification of

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contact.

4. Choose suitable types of connectors based on insulation hole location arrange drawing on Page 6 and confirm the assembly hole location number of contacts according to the specification, quantity of various types of contacts needed.
5. Finally confirm the order quantity of connectors and contacts you need.

### Ordering Method:

1. The connector and the contact should be ordered separately.
2. The following information should be noted when you order electrical connector.
  - a. Name-hole(plug), pin(socket);
  - b. Part Number;
  - c. Quantity;
3. The following information should be noted when you order the contact.
  - a. Name: pin, hole;
  - b. Part: see table2-5
  - c. Quantity;
4. For the need of Crimp and PCB contact (pin, socket), we can install the Contact according to the customer's requirement.
5. The specification of the installing screw is seen in table 8.
6. The Push-pull tool is seen in table 6.The crimp tool is seen in table7.