

# TOUCH



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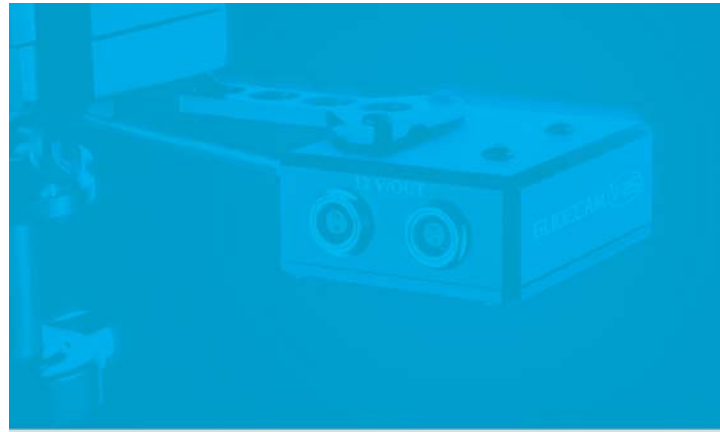
**B.C.E. S.r.l.**

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## Company Profile

Touch Technology is a manufacturing enterprise integrating development, design, manufacturing and service of precision custom connection solutions. We are engaged in the development, production and sell of connectors. The main products include series of circular push-pull connectors which are widely used in the fields of medical, telecommunication, automotive, military, test and measurement etc. Our products are of high quality which can interconvert with foreign counterparts. We offer custom specific designs as well.

Our company takes the lead in passing the certification of ISO9001 and ISO14001. Sticking to the enterprise spirit of preciseness and sincerity, we seek for products of new technology, high performance and high quality. Not the biggest but the best. We will surpass ourselves continuously, face up challenges and seek for sustainable development.

## Usage

Multi-contact connectors are widely used in telecommunications, electronics, medical and meters industry to connect electrical signal. Especially suitable for equipments which need to insert and draw frequently and ask for shield, such as medical equipment, IC control systems, instrumentation, and telecommunications.

## Characteristics

1. structure compact and attractive;
2. high-density multi-contact series;
3. well shielded with metal structure;
4. pull-pull system, convenient to operate;
5. self-latching structure, safe and reliable;
6. jack socket, needle plug.

## Types

- By materials: metallic connector; plastic connector;
- By connection pattern: solder type, PCB type.

## Materials

### 1. Metallic connector

Shell: Copper alloys, stainless steel is used in special occasions, plated with Nickel, satin Chrome, or black Chrome.

Insulator: PA66, PSU, PPSU, PEEK.

Contact: copper alloy plated with gold.

### 2. Plastic connector

Shell: ABS and PC

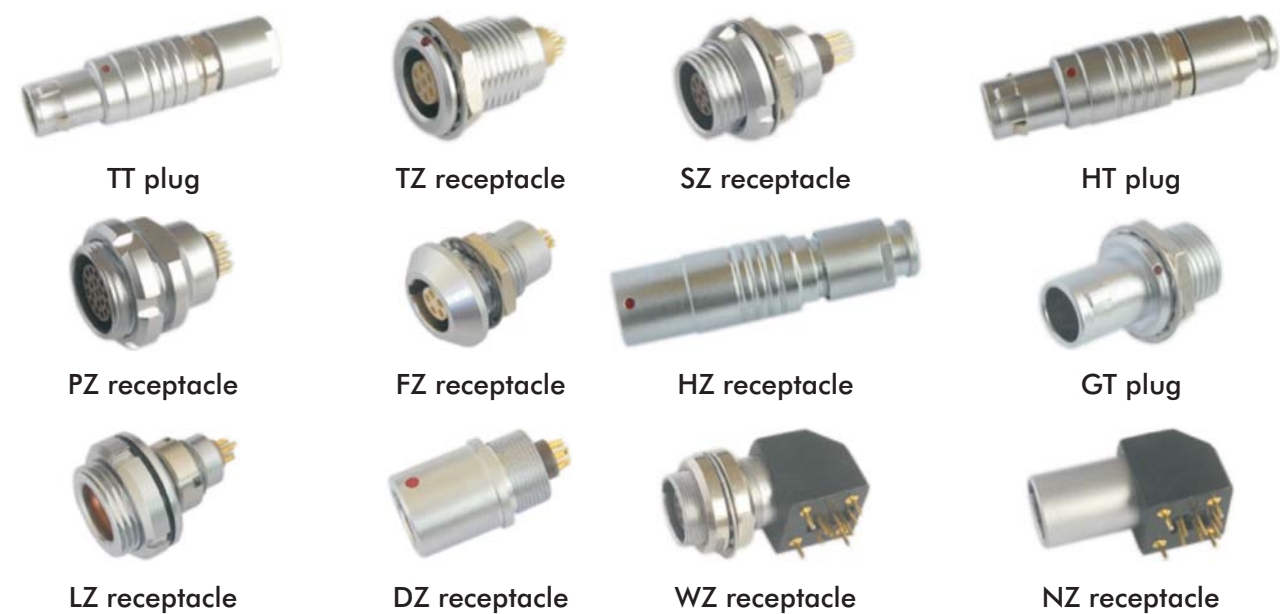
Insulator: PA66, PSU, PPSU, PEEK.

Contact: copper alloy plated with gold.

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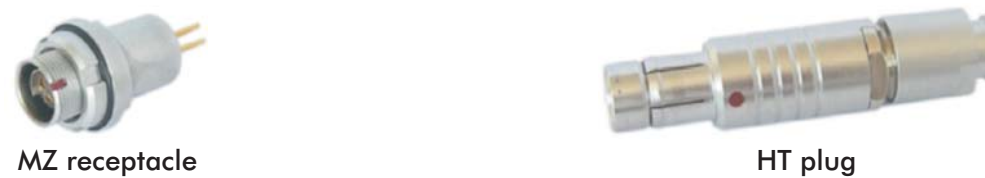
### B series Metal shell style



### C series Metal shell style



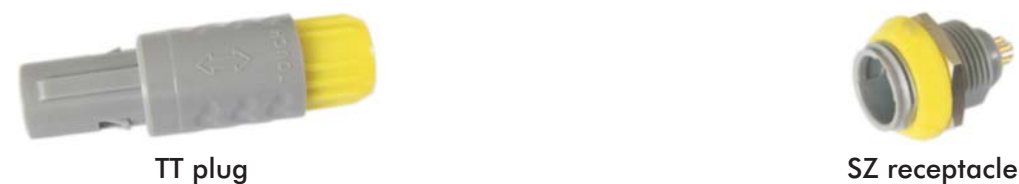
### F series



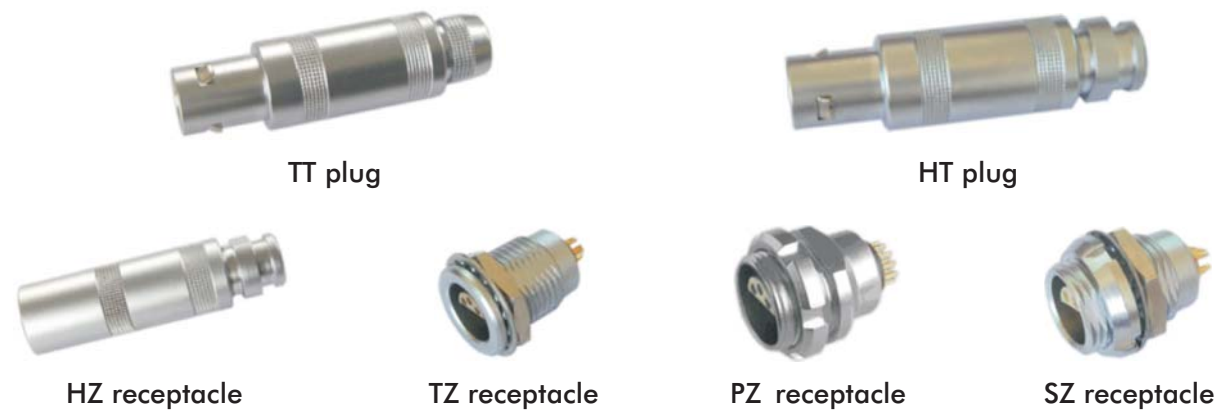
### K series Metal shell style



### P Series Plastic shell style



### S series Metal shell style



### 2E series Metal shell style



### Accessories



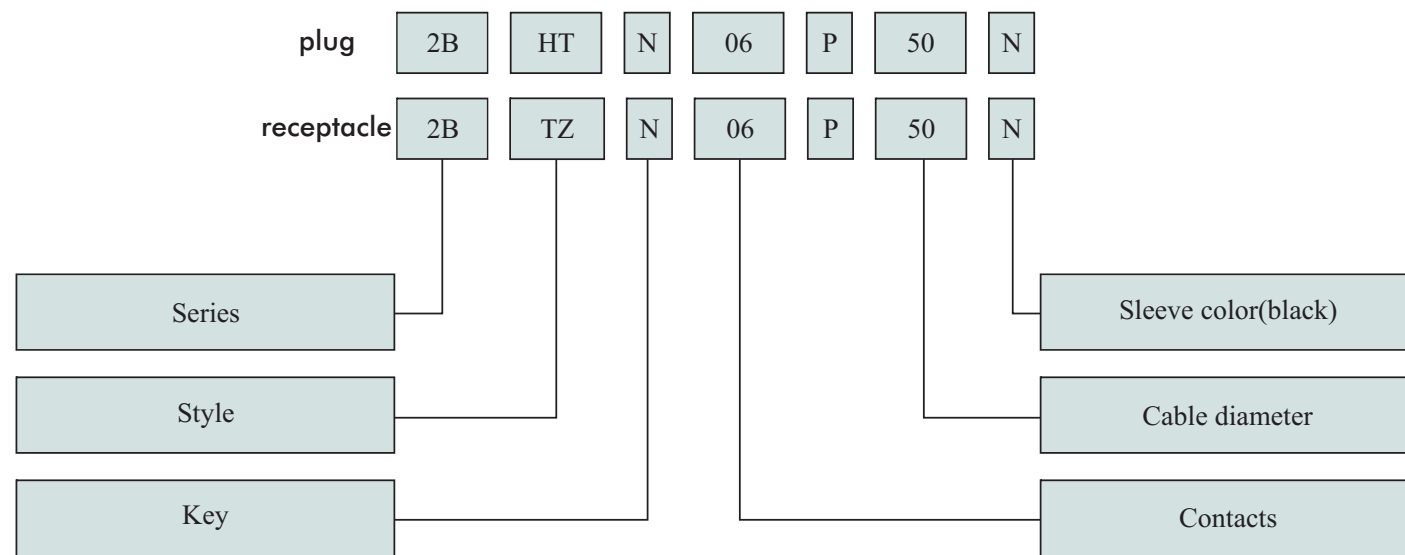
## B Series connector with the following main features:

1. Security of the push-pull self-latching system;
2. Multicore types with 2 to 26 pins;
3. Solder or PCB contacts (straight or elbow);
4. High-density installation for space-saving;
5. Multiple key options to avoid cross mating or similar connectors;
6. 360-degree screening for full EMC protection;
7. Different kinds of keying options to avoid mismatching.

### Parts of connector:

1. shell made of copper alloy, stainless steel is used in special occasions, plated with Nickel or Chrome;
2. pin and jack made of copper alloy, plated with gold;
3. insulator molded with engineering plastic which is high-temperature durable and good insulating;
4. sleeve molded with soft plastic to protect cables.

### B series part numbering rules:



### Part Number Example

#### Straight plug with sleeve

**1BHTA0642N:** 1B Series straight plug, 30 degree double keys fixing(A), 6 pins, apply to cable diameter of 5.0mm, cable collet to fix cable with black sleeve.

#### Fixed receptacle

**3BTZN21:** 3B Series fixed receptacle, fixed inside of case with nut, single key fixing(N), 21 pins.

#### Fixed plug

**2BGTN08:** 2B Series fixed plug, fixed inside of case with nut, single key fixing, 8 pins.

#### Fixed coupler plug

**1BHZN0650N:** 1B Series coupler plug, single key fixing, 6 pins, apply to cable diameter of 5.0mm, cable collet to fix cable with black sleeve.

## TT plug

Standard general straight plug, with key (N, A, B-W) to avoid moving and mismatching, cable collet to fix cable.

Items	Dimension					
	Series	Style	L	A	C	S1
0B	TT	36	9.5	30	8	7
1B	TT	43	12	34	10	9
2B	TT	50	15	42	13	13
3B	TT	57	18	42	16	15

## HT plug

General straight plug, with key (N, A, B-W) to avoid moving and mismatching, cable collet to fix cable, with sleeve to prevent cable from bending.

Items	Dimension					
	Series	Style	L	A	C	S1
0B	HT	35	9.5	25	8	7
1B	HT	41	12	30	10	9
2B	HT	48	15	36	13	13
3B	HT	57	18	42	16	15

## GT plug

Fixed inside of case, with key (N, A, B-W) to avoid moving and mismatching.

Items	Dimension								
	Series	Style	A	B	L	N	M	S1	S2
0B	GT	10	12.4	20.8	18.4	11.2	11	8.2	M9*0.5
1B	GT	14	15.8	25.2	22.6	12.5	14	10.5	M12*1.0
2B	GT	18	19.2	28.7	25.4	13.8	17	13.5	M15*1.0
3B	GT	22	25	32	29.1	17.0	22	16.5	M18*1.0

## TZ receptacle

Receptacle assembled outside, fixed inside of case with nut, with key (N, A, B-W) to avoid moving and mismatching.

Items	Dimension									
	Series	Style	A	B	e	E	L	M	N	S1
0B	TZ	10	12.3	M9*0.5	7	21.3	1.2	19	8.2	11
1B	TZ	14	16	M12*1.0	7.5	23.2	1.5	21	10.5	14
2B	TZ	18	19.2	M15*1.0	8.0	24.8	2	24	13.5	17
3B	TZ	22	25	M18*1.0	11	30.7	2	28	16.5	22


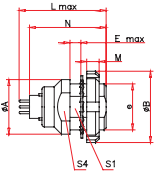
## SZ receptacle

General receptacle assembled and fixed either inside or outside, with key (N, A, B-W) to avoid moving and mismatching.

Items	Dimension									
	Series	Style	A	B	e	E	L	M	N	S1
0B	SZ	12	12.5	M9*0.5	5.5	21.3	2.5	19	8.2	11
1B	SZ	16	16	M12*1.0	6.0	23.2	3.2	21	10.5	14
2B	SZ	20	19.5	M15*1.0	6.5	24.8	3.5	24.5	13.5	17
3B	SZ	24	25	M18*1.0	9	30.7	4.5	28	16.5	22


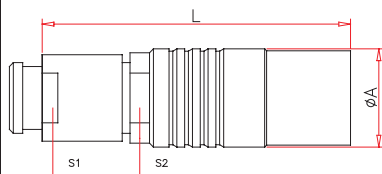
**PZ receptacle**

Receptacle assembled inside, fixed outside, with key (N, A, B-W) to avoid moving and mismatching.

 <p>PZ receptacle</p>		Items		Dimension								
		Series	Style	A	B	e	E	L	M	N	S1	S4
		0B	PZ	11	12	M9*0.5	5.5	22	2.5	19	8.2	9
		1B	PZ	16	16	M12*1.0	6.0	24	3.2	21	10.5	13
		2B	PZ	20	19.5	M15*1.0	6.5	27.5	3.5	24.5	13.5	15
3B	PZ	24	25	M18*1.0	9	31	4.5	28	16.5	18		


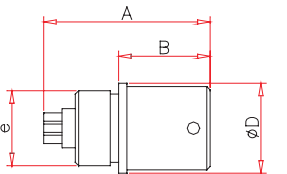
**HZ receptacle**

Coupler receptacle, used for connecting between cables, with key (N, A, B-W) to avoid moving and mismatching. cable collet to fix cable, with sleeve to prevent the cable from bending.

 <p>HZ receptacle</p>		Items		Dimension			
		Series	Style	L	A	S1	S2
		0B	HZ	34	9.5	7	5.5
		1B	HZ	40	12.5	9	8.0
		2B	HZ	46	16.5	12	10
3B	HZ	55	19.0	15	13.0		


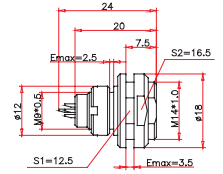
**DZ receptacle**

Fixed receptacle, inside nut fixed or screw tight on shell directly with key to avoid moving and mismatching.

 <p>DZ receptacle</p>		Items		Dimension			
		Series	Style	A	B	e	D
		0B	DZ	20	11	M9*0.5	11
		1B	DZ	22	11.75	M12*1.0	13.8
		2B	DZ	24	12.5	M15*1.0	17.8


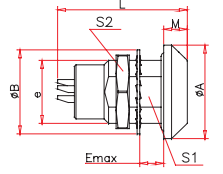
**LZ receptacle**

Double-fixed receptacle, with key (N, A, B-W) to avoid moving and mismatching.

 <p>LZ receptacle</p>	Items		Dimension							
	Series	Style								
	0B	LZ								
										


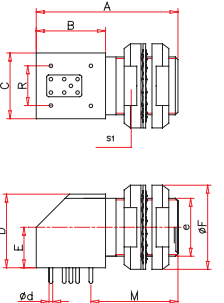
**FZ receptacle**

Sealed receptacle assembled outside, fixed inside with key (N, A, B-W) to avoid moving and mismatching.

 <p>FZ receptacle</p>		Items		Dimension							
		Series	Style	A	B	e	E	L	M	S1	S2
		0B	FZ	13	12.7	M9*0.5	7.0	20.2	3.0	8.2	11
		1B	FZ	18	15.8	M12*1.0	7.0	26.6	4.5	10.5	14


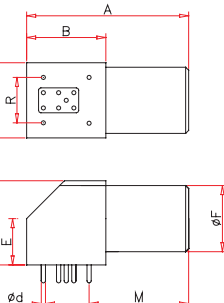
**WZ receptacle**

Elbow (90 degree) printed circuit receptacle, fixed with two nuts, with key (N, A, B-W) to avoid moving and mismatching. See the details of counterpart chart of PCB drilling pattern and grounding pins this page.

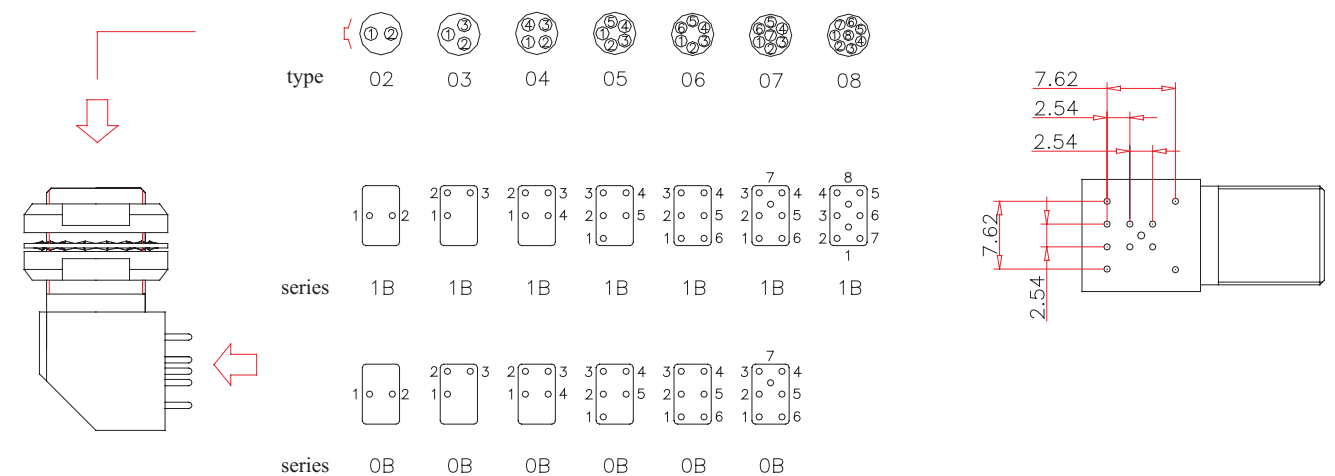
 <p>WZ receptacle</p>		Items		Dimension								
		Series	Style	A	B	e	C	D	E	F	M	S1
		0B	WZ	25	13.3	M9*0.5	11.7	12.7	6.7	12	14.6	10.5
		1B	WZ	27	13.3	M11*0.5	12.6	14	7.5	14	16.6	12

**NZ receptacle**

Elbow (90 degree) printed circuit receptacle, solder fixed, with key (N, A, B-W) to avoid moving and mismatching. See the details of counterpart chart of PCB drilling pattern and grounding pins this page.

 <p>NZ receptacle</p>		Items		Dimension							
		Series	Style	A	B	C	D	E	F	M	d
		0B	NZ	25	13.3	11.7	12.7	6.7	12	14.6	0.7
		1B	NZ	27	13.3	12.6	14	7.5	14	16.6	0.7

**Corresponding plot of soldering block and pulghole**



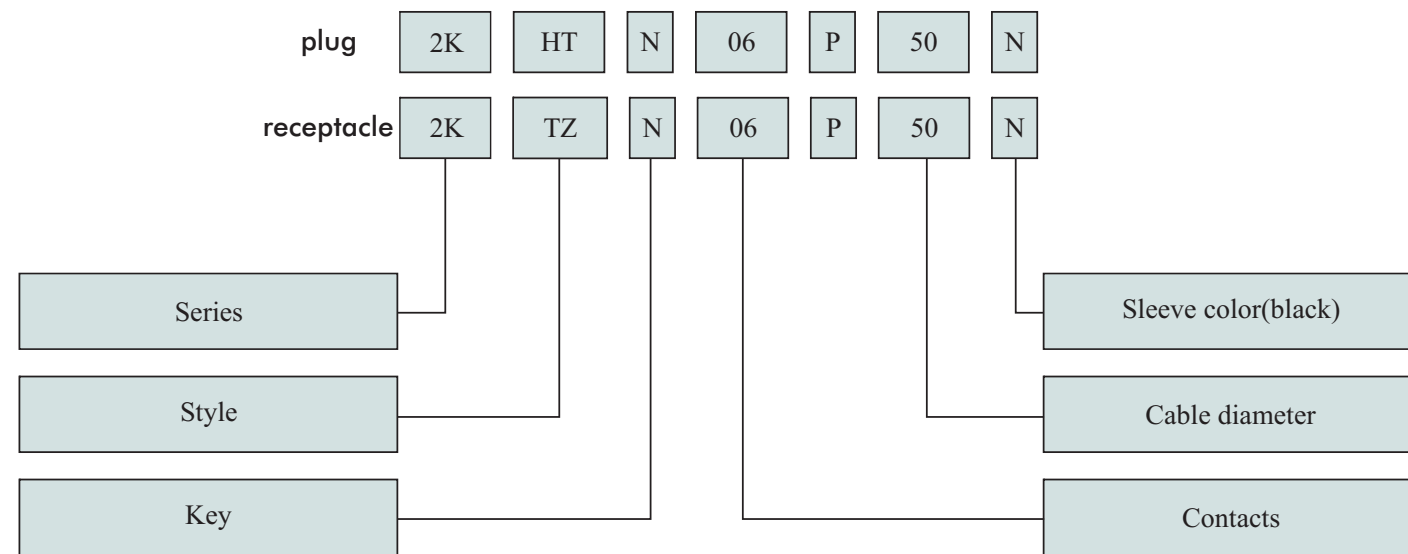
### K Series connector with the following main features:

1. Smart push-pull self-latching system;
2. Multicore types with 2 to 26 pins;
3. Solder or PCB contacts (straight and elbow);
4. High packing density for space saving;
5. Different kinds of keying options to avoid mismatching;
6. 360 degree screening for full EMC shielding;
7. Waterproof connector (IP66 to 68);
8. Rugged housing for extreme working conditions.

### Parts of connector:

1. shell made of copper alloy, stainless steel is used in special occasions, plated with Nickel or Chrome;
2. pin and jack made of copper alloy, plated with gold;
3. insulator molded with engineering plastic which is high-temperature durable and good insulating;
4. sleeve molded with soft plastic to protect cables;
5. waterproof gasket ring is made of high-temperature durable silicone rubber.

### K series part numbering rules:



### Part Number Example

#### Straight plug with sleeve

**1KHTA0650N:** 1K Series straight plug, 30 degree double keys fixing (A), multi-contact of 6 pins, apply to cable diameter of 5.0mm, cable collet fix with black sleeve.

#### Fixed receptacle


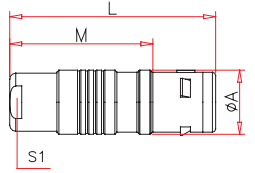
**2KTZN14:** 2K Series fixed receptacle, fixed inside of case with nut, single key fixing (N), multi-contact of 14 pins.

#### Fixed coupler plug

**2KHZN0650N:** 2K Series coupler plug, single key fixing(N), multi-contact of 6 pins, apply to cable diameter of 5.0mm, cable collet fix with black sleeve.


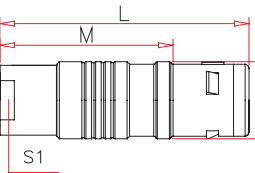
### TT plug

Standard general straight plug, waterproof, with key (N, A, B-W) to avoid moving and mismatching, cable collet to fix cable.

 TT plug		Items		Dimension			
		Series	Style	A	L	M	S1
		0K	TT	11	40	30	8
		1K	TT	13	45	34	10
2K	TT	16	54	42	13		


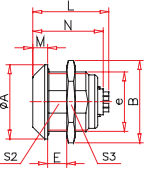
### HT plug

General waterproof plug, with key (N, A, B-W) to avoid moving and mismatching, cable collet to fix cable, with sleeve to prevent the cable from bending.

 HT plug		Items		Dimension			
		Series	Style	L	A	C	S1
		0K	HT	40	11	30	8
		1K	HT	45	13	34	10
2K	HT	54	16	42	13		


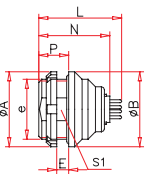
### TZ receptacle

Receptacle assembled outside, fixed inside, with key (N, A, B-W) to avoid moving and mismatching.

 TZ receptacle		Items		Dimension								
		Series	Style	A	B	e	E	L	M	N	S1	S3
		0K	TZ	10	12.3	M14*1.0	7	21.3	1.2	19	8.2	11
		1K	TZ	14	16	M16*1.0	7.5	23.2	1.5	21	10.5	14
2K	TZ	18	19.2	M20*1.0	8.0	24.8	2	24	13.5	17		


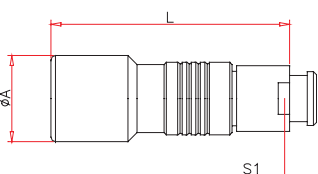
### PZ receptacle

Receptacle assembled inside, fixed outside, with key (N, A, B-W) to avoid moving and mismatching.

 PZ receptacle		Items		Dimension								
		Series	Style	A	B	e	E	L	M	N	S1	S4
		0K	PZ	11	12	M14*1.0	5.5	22	2.5	19	8.2	9
		1K	PZ	16	16	M16*1.0	6.0	24	3.2	21	10.5	13
2K	PZ	20	19.5	M20*1.0	6.5	27.5	3.5	24.5	13.5	15		

### HZ receptacle

Coupler receptacle, used for connecting between cables, with key (N, A, B-W) to avoid moving and mismatching. cable collet to fix cable, with sleeve to prevent cable from bending.

 HZ receptacle		Items		Dimension		
		Series	Style	L	A	S1
		0K	HZ	34	13.0	8.0
		1K	HZ	45	15	9.0
2K	HZ	54	19	12.0		

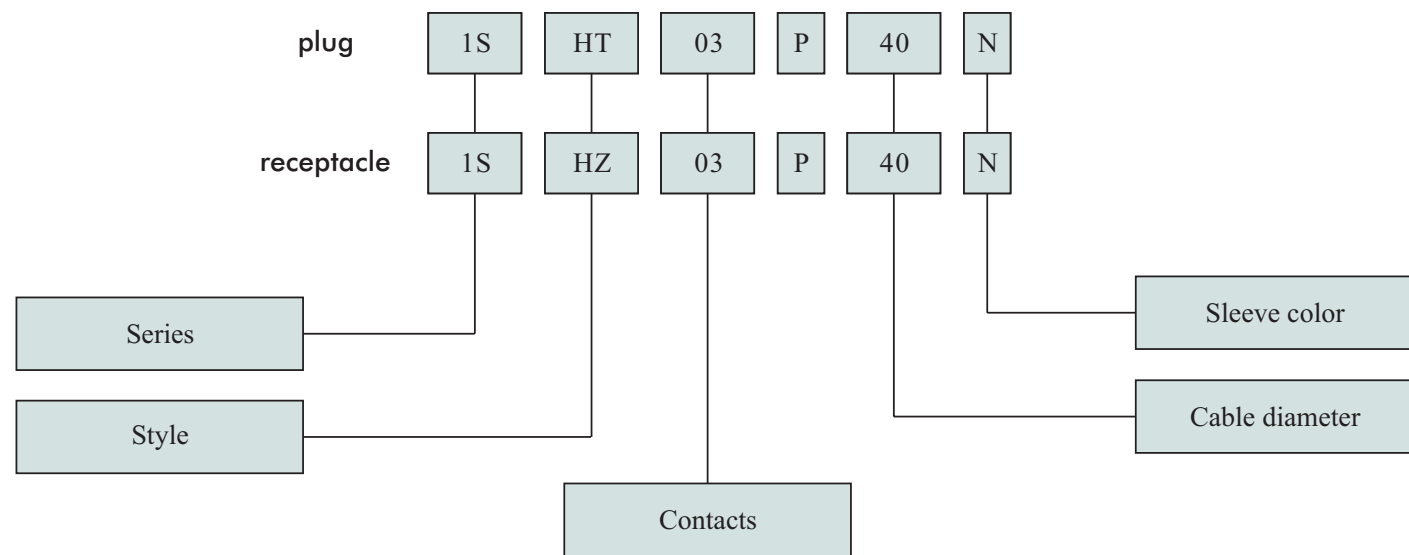
**S Series connector with the following main features:**

1. Security of the push-pull self-latching system;
2. multi-core type(2-6)
3. Solder or PCB contacts (straight and elbow);
4. high-density installation for saving space;
5. high-low insulator positioning avoid mismatching;
6. 360 degree screening for full EMC shielding;

**Parts of connector:**

1. shell made of copper alloy, stainless steel is used in special occasions, plated with Nickel or Chrome;
2. pin and jack made of copper alloy, plated with gold;
3. insulator molded with engineering plastic which is high-temperature durable and good insulating;
4. sleeve molded with soft plastic to protect cables.

**S series part numbering rules:**



**S series part numbering example:**

**Straight plug with sleeve**

**1SHT00650N:** 1S Series straight plug, multi- contact of 6 pins, apply to cable diameter of 5.0mm, cable collet fix with black sleeve.

**Fixed receptacle**


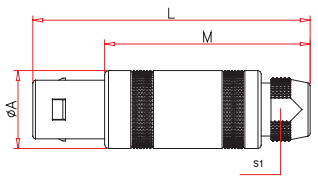
**2SSZ008:** 2S Series fixed receptacle, fixed with two nuts, without key, multi- contact of 8 pins. Omit the later code or replaced by 0000.

**Fixed coupler plug**

**1SHZ00450N:** 1S Series coupler plug, without key, multi- contact of 4 pins, apply to cable diameter of 5.0mm, cable collet fix with black sleeve.


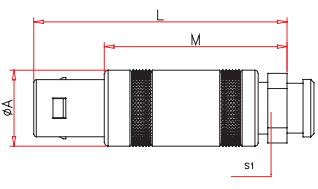
**TT plug**

Standard straight plug, cable collet to fix cable. With inside components to avoid cables moving.

 TT plug		Items		Dimension			
		Series	Style	A	L	M	S1
		0S	TT	8.8	34.5	24.5	6.5
		1S	TT	11.8	42.5	31.5	8.5
2S	TT	14.8	52	40	11		


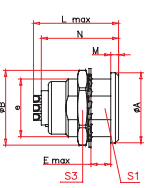
**HT plug**

Standard straight plug, cable collet to fix cable. With inside components to avoid cables moving, and sleeve to prevent the cable from bending.

 HT plug		Items		Dimension			
		Series	Style	A	L	M	S1
		0S	HT	8.8	34.5	24.5	6.5
		1S	HT	11.8	42.5	31.5	8.5
2S	HT	14.8	52	40	11		


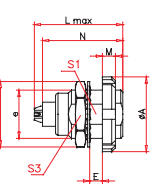
**TZ receptacle**

Fixed receptacle, fixed inside with nut

 TZ receptacle		Items		Dimension								
		Series	Style	A	B	e	E	L	M	N	S1	S3
		0S	TZ	10	12.3	M9*0.5	7	21.3	1.2	19	8.2	11
		1S	TZ	14	16	M12*1.0	7.5	23.2	1.5	21	10.5	14
2S	TZ	18	19.2	M15*1.0	8.0	24.8	2	24	13.5	17		


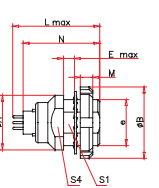
**SZ receptacle**

Fixed receptacle, fixed either inside or outside with two nuts.

 SZ receptacle		Items		Dimension								
		Series	Style	A	B	e	E	L	M	N	S1	S3
		0S	SZ	12	12.5	M9*0.5	5.5	21.3	2.5	19	8.2	11
		1S	SZ	16	16	M12*1.0	6.0	23.2	3.2	21	10.5	14
2S	SZ	20	19.5	M15*1.0	6.5	24.8	3.5	24.5	13.5	17		


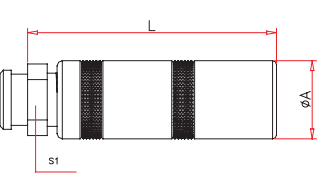
**PZ receptacle**

Fixed receptacle, fixed outside with nut.

 PZ receptacle		Items		Dimension								
		Series	Style	A	B	e	E	L	M	N	S1	S4
		0S	PZ	12	12.5	M9*0.5	5.5	21.3	2.5	19	8.2	11
		1S	PZ	16	16	M12*1.0	6.0	23.2	3.2	21	10.5	14
2S	PZ	20	19.5	M15*1.0	6.5	24.8	3.5	24.5	13.5	17		

**HZ receptacle**

Coupler receptacle, used for connecting between cables, with key (N, A, B-W) to avoid moving and mismatching, cable collet to fix cable, with sleeve to prevent the cable from bending.

 HZ receptacle		Items		Dimension		
		Series	Style	L	A	S1
		0S	HZ	34	8.8	7
		1S	HZ	40	11.8	9
2S	HZ	46	14.8	12		

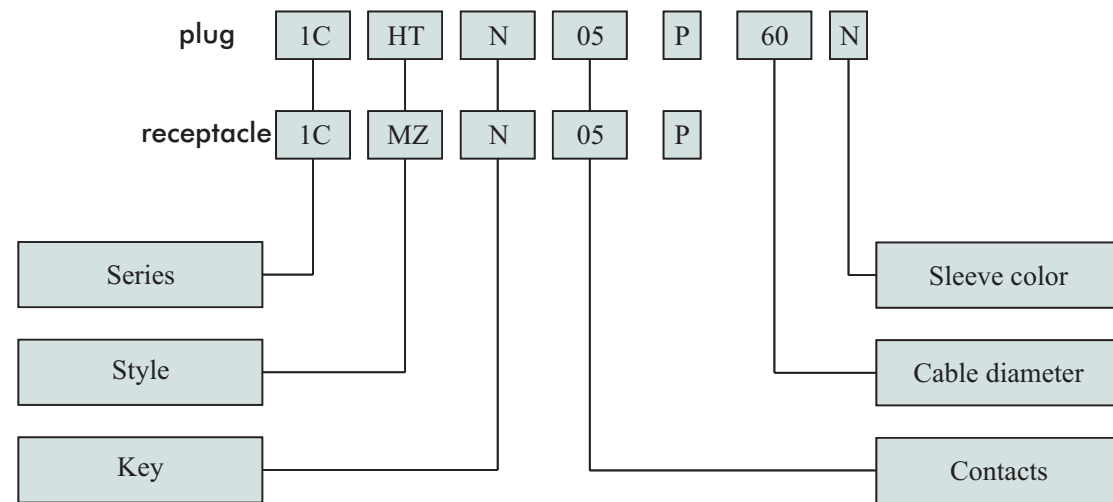
**C Series connector with the following main features:**

1. security of the push-pull self-latching system;
2. multi-core type with 2 to 21 pins;
3. solder and PCB contacts(straight and bend);
4. high-density installation for saving space;
5. 360-degree screening for full EMC protection;
6. receptacle is vacuum sealed, suitable for the equipment demanding obturation.
7. different kinds of keying options to avoid mismatching.

**Parts of connector:**


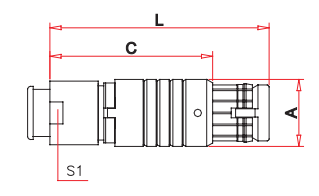
1. shell made of copper alloy, stainless steel is used in special occasions, plated with Nickel or Chrome;
2. pin and jack made of copper alloy, plated with gold;
3. insulator molded with engineering plastic which is high-temperature durable and good insulating;
4. sleeve molded with soft plastic to protect cables.
5. waterproof gasket ring is made of high-temperature durable silicone rubber

**C series part numbering rules:**




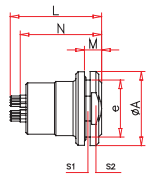
**HT plug**

General straight plug with key (N, A, B-W) to avoid moving and mismatching, cable collet to fix cable, with sleeve to prevent the cable from bending.

		Items		Dimension				
		Series	Style	L	A	C	S1	S2
		0C	HT	40	9.5	30	8	7
		1C	HT	45	12	34	10	9
		2C	HT	54	15	42	13	13
		3C	HT	57	18	42	16	16

**MZ receptacle**

Vacuum airproof receptacle, fixed outside, with key (N, A, B-W) to avoid moving and mismatching.

		Items		Dimension						
		Series	Style	A	L	e	N	M	S1	S2
		0C	MZ	14	24	M9*0.5	21	6.0	8.2	10.5
		1C	MZ	17	25	M14*1.0	22	6.0	12	17
		2C	MZ	21	29	M17*1.0	25	6.0	14.5	19
		3C	MZ	25	31.5	M20*1.0	27	6.0	18	23

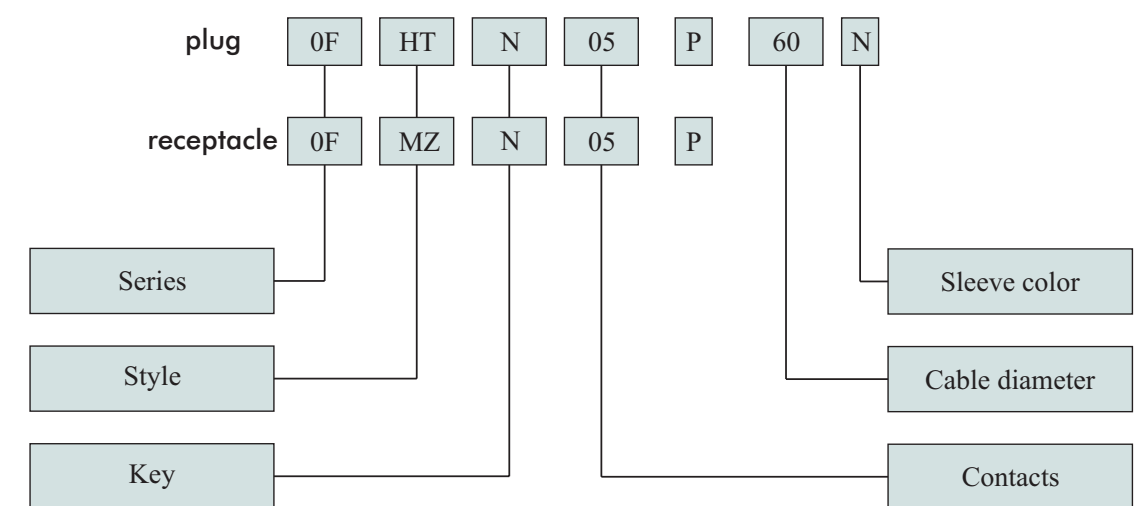
**F series connector with the following main features:**

1. security of the push-pull self-latching system;
2. multi-core type with 2 to 21 pins;
3. solder and PCB contacts(straight and bend);
4. high-density installation for saving space;
5. 360-degree screening for full EMC protection;
6. receptacle is vacuum sealed, suitable for the equipment demanding obturation.
7. Different kinds of keying options to avoid mismatching.

**Parts of connector:**


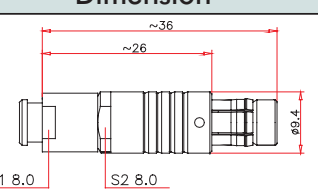
1. shell made of copper alloy, stainless steel is used in special occasions, plated with Nickel or Chrome;
2. pin and jack made of copper alloy, plated with gold;
3. insulator molded with engineering plastic which is high-temperature durable and good insulating;
4. sleeve molded with soft plastic to protect cables.
5. waterproof gasket ring is made of high-temperature durable silicone rubber.

**F series part numbering rules:**




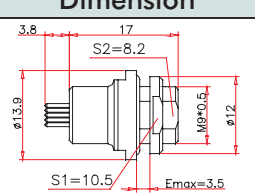
**HT plug**

Standard straight plug, inside components avoid cable rotating, half-circular metal avoid mismatching.

		Items		Dimension		
		Series	Style	S1	S2	Length
		0F	HT	8.0	8.0	~36

**MZ receptacle**

Vacuum sealed receptacle, outside nut fixed, half-circular metal avoid mismatching.

		Items		Dimension		
		Series	Style	S1	S2	Length
		0F	MZ	10.5	8.2	17

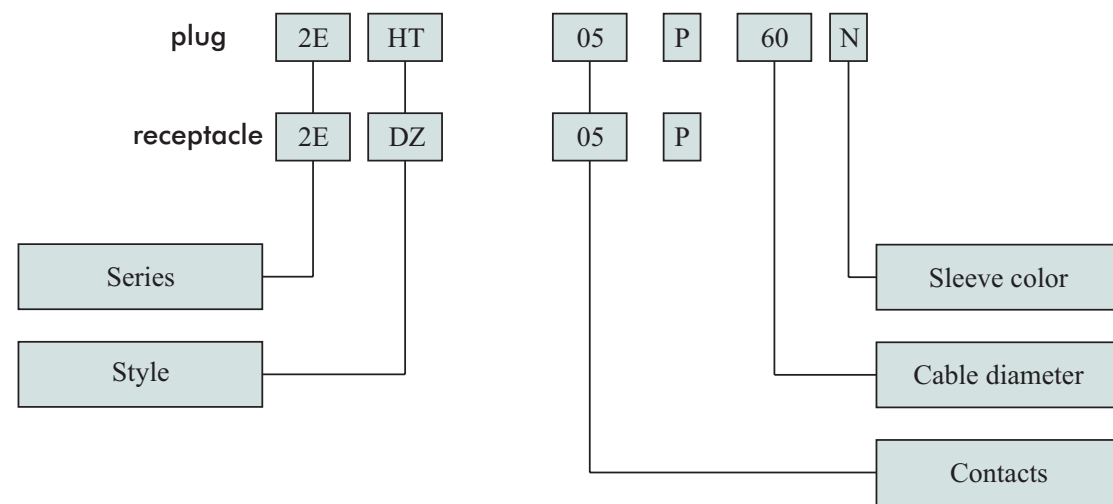
**2E series connector with the following main features:**

1. security of the push-pull self-latching system;
2. multi-core type with 2 to 12 pins;
3. short type connectors with high density installation for saving space;
4. 360 degree screening for full EMC protection;
5. high-low insulator positioning avoid mismating.

**Parts of connector:**


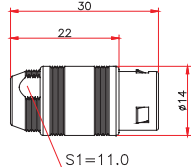
1. shell made of copper alloy, stainless steel is used in special occasions, plated with Nickel or Chrome;
2. pin and jack made of copper alloy, plated with gold;
3. insulator molded with engineering plastic which is high-temperature durable and good insulating;
4. sleeve molded with soft plastic to protect cables.
5. waterproof gasket ring is made of high-temperature durable silicone rubber

**2E series part numbering rules:**




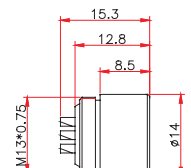
**TT plug**

Super-short plug, collet lock tightly, high-low insulator positioning avoid mismating.

	Items		Dimension
	Series	Style	
	2E	TT	

**DZ receptacle**

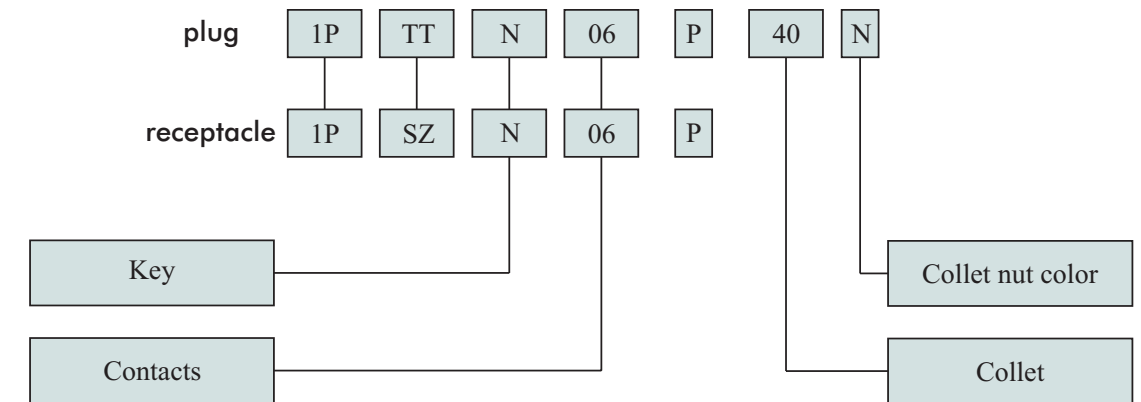
Short structure plug, nut thread fixed on the machine directly.

	Items		Dimension
	Series	Style	
	2E	DZ	

**P Series connector with the following main features:**

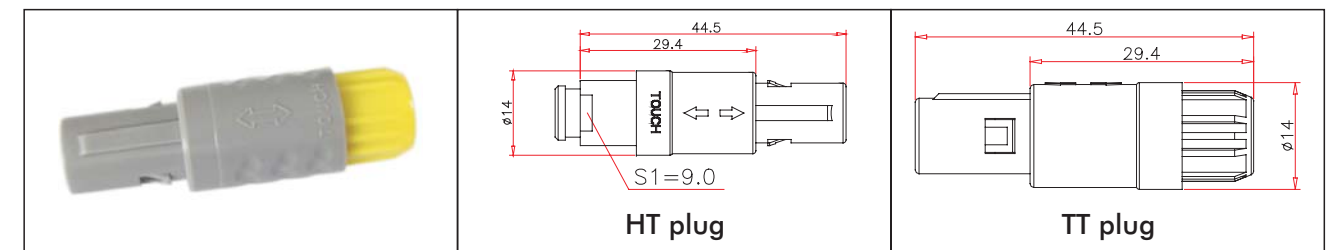
1. Smart push-pull self-latching system;
2. Multicore types 2 to 14 pins;
3. Solder or PCB contacts;
4. High packing density for space saving;
5. Collet nut and socket nut with the same color to avoid mismating.

**P series part numbering rules:**



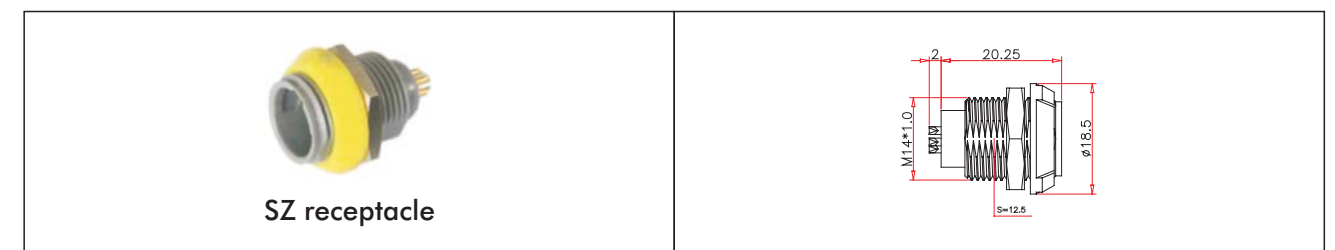
**HT plug & TT plug**

Standard straight plug, cable collet to fix cable. With inside components to avoid cables moving



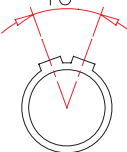
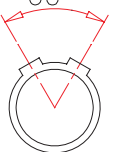
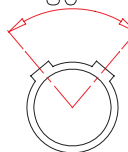


**SZ receptacle**

Fixed receptacle, fixed inside of case with nut



**Key**

Key of plug	Diagram			
	0°	40°	60°	80°
				
<b>Key code</b>	N	A	B	C




## Collet nut color








Color	Blue	Gray	Yellow	Black	Red	Green
Code	A	G	J	N	R	V







## Collet




Collet code	Cable diameter
42	4.0 below
52	5.0-4.0
62	6.0-5.0







## For insulator of B series &amp; K series







series	00					
Pin array						
Diameter of contact (mm)	0.5	0.5	0.5			
Contact resistance(mΩ)	10	10	10			
Working current (A)	3	2	1.5			
Test voltage(V)	600	600	450			
Working voltage (V)	250	250	200			







series	0B-0K-0C						
Pin array							
Diameter of contact (mm)	0.9	0.9	0.7	0.7	0.5	0.5	0.5
Contact resistance(mΩ)	6	6	7.5	7.5	10	10	10
Working current (A)	10	10	7	7	5	5	5
Test voltage(V)	1000	875	875	750	750	750	750
Working voltage (V)	500	400	300	300	300	300	300

series	1B-1K-1C					
Pin array						
Diameter of contact (mm)	1.3	1.3	0.9	0.9	0.7	0.7
Contact resistance(mΩ)	5	5	6	6	7.5	7.5
Working current (A)	14	14	10	10	7	7
Test voltage(V)	1250	1000	1000	875	875	875
Working voltage (V)	550	500	500	450	450	400

series	1B-1K-1C					
Pin array						
Diameter of contact (mm)	0.7	0.5	0.5			
Contact resistance(mΩ)	7.5	10	10			
Working current (A)	7	5	5			
Test voltage(V)	875	750	750			
Working voltage (V)	333	333	300			

series	2B-2K-2C					
Pin array						
Diameter of contact (mm)	2.0	1.6	1.3	1.3	1.3	0.9
Contact resistance(mΩ)	3	4	5	5	5	6
Working current (A)	20	17	14	14	14	10
Test voltage(V)	1500	1500	1500	1250	1250	1250
Working voltage (V)	700	800	750	600	500	500

series	2B-2K-2C					
Pin array						
Diameter of contact (mm)	0.9	0.7	0.7	0.7	0.7	0.5
Contact resistance(mΩ)	6	7.5	7.5	7.5	7.5	10
Working current (A)	10	7	7	7	7	5
Test voltage(V)	1250	1000	875	875	875	666
Working voltage (V)	500	450	400	366	333	300

series	3B-3K-3C					
Pin array						
Diameter of contact (mm)	2.0	2.0	1.6	1.3	1.3	0.9
Contact resistance(mΩ)	3	3	4	5	5	6
Working current (A)	17	17	15	14	14	10
Test voltage(V)	1500	1500	1250	1250	1250	1250
Working voltage (V)	550	550	550	550	450	450

series	3B-3K-3C					
Pin array						
Diameter of contact (mm)	0.9	0.9	0.9	0.7	0.7	0.7
Contact resistance(mΩ)	6	6	6	7.5	7.5	7.5
Working current (A)	10	10	10	7	7	7
Test voltage(V)	1250	1250	1000	875	875	875
Working voltage (V)	450	450	450	333	333	300

## For S Series insulator

series	0S		
Pin array			
Diameter of contact (mm)	0.9	0.7	0.7
Contact resistance(mΩ)	6	7.5	7.5
Working current (A)	10	10	7
Test voltage(V)	1000	875	875
Working voltage (V)	500	400	300

series	1S					
Pin array						
Diameter of contact (mm)	1.3	0.9	0.9	0.9	0.7	0.7
Contact resistance(mΩ)	5	6	6	6	7.5	7.5
Working current (A)	14	10	10	10	7	7
Test voltage(V)	1250	875	875	750	750	75
Working voltage (V)	500	450	400	400	400	300

series	0F							
Pin array	Single-key plug Single-key receptacle							
	Double-key plug Double-key receptacle							
Diameter of contact (mm)	0.9	0.9	0.7	0.7	0.5	0.5	0.5	
Contact resistance(mΩ)	6	6	7.5	7.5	10	10	10	
Working current (A)	6.5	6.5	4	4	2	2	2	
Test voltage(V)	1000	875	875	750	750	750	600	
Working voltage (V)	500	400	300	300	300	300	300	

series	2E							
Pin array	plug							
	receptacle							
Diameter of contact (mm)	1.3	0.9	0.9	0.9	0.7	0.7	0.7	
Contact resistance(mΩ)	5	6	6	6	7.5	7.5	7.5	
Working current (A)	8	6.5	6.5	6.5	4	4	4	
Test voltage(V)	1250	875	875	875	750	750	750	
Working voltage (V)	500	400	400	400	400	400	400	

series	1P				
Pin array					
Diameter of contact (mm)	1.3	1.3	0.9	0.9	0.7
Contact resistance(mΩ)	5	5	6	6	7.5
Working current (A)	10	10	8	8	6
Test voltage(V)	1250	1250	1250	1100	1000
Working voltage (V)	500	500	500	500	450

series	1P				
Pin array					
Diameter of contact (mm)	0.7	0.7	0.5	0.5	0.5
Contact resistance(mΩ)	7.5	7.5	10	10	10
Working current (A)	6	5	3	3	3
Test voltage(V)	1000	875	600	600	600
Working voltage (V)	450	400	333	333	333

For B Series and K Series SZ straight receptacle, PZ receptacle, MZ receptacle

Numbers of contact	Type	0B	1B	2B	Numbers of contact	Type	0B	1B	2B
	A	0.8	0.8	0.8		A	0.8	0.8	0.8
	D	2.2	2.8	4.4		D	2.3	3.0	4.6
	A	0.6	0.8	0.8		A	0.6	0.8	0.8
	D	2.5	3.1	5.0		D	2.8	3.4	5.2
	A	0.6	0.8			A			0.8
	D	3.0	3.7			D			5.6
	A	0.6	0.8	0.8		A		0.8	
	D	3.0	3.7	5.8		D		3.8	
	A			0.8		A		0.6	0.8
	D			6.4		H		1.4	2.15
	A			0.8		A		0.6	0.8
	H			6.5		H		1.8	2.65
	A			0.8		A			0.8
	D			6.60		H			3.50
						D			6.7

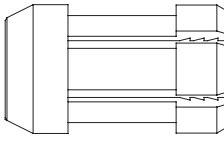
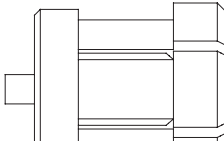
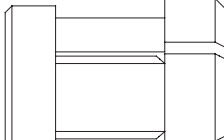
For SZ straight receptacle and pz receptacle of S series

Numbers of contact	Type	0S	1S	Numbers of contact	Type	0S	1S
	A	0.8	0.8		A	0.8	0.8
	D	2.2	3.0		D	2.8	3.5
	A	0.8	0.8		A		0.8
	D	2.8	3.5		D		3.5
	A		0.8				
	D		3.5				

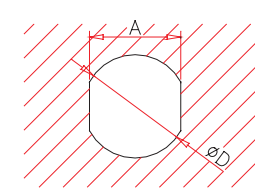
Key

Key	Drawing	Series								
		00	0B	1B	2B	3B	0K	1K	2K	
N		◆	◆	◆	◆	◆	◆	◆	◆	
A			◆	◆	◆	◆	◆	◆	◆	
B			◆	◆	◆	◆	◆	◆	◆	
C			●	●						
E			◆	◆						
F					◆					
K					●	●	●	●	●	
Q			●	●						
0		Means no key, for unipole and S series								

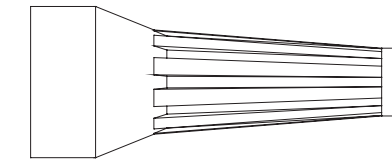
Collet

 <p>For S series</p>	Collet code	Cable diameter	0S		1S		
	25	2.0-2.5	●				
	30	2.6-3.0	●		●		
	35	3.1-3.5	●		●		
	40	3.6-4.0	●		●		
	45	4.1-4.5			●		
	50	4.6-5.0			●		
 <p>For B series</p>	Collet code	Cable diameter	00	0B	1B	2B	3B
	25	2.0-2.5	●	●			
	30	2.6-3.0	●	●			
	35	3.1-3.5	●	●	●		
	40	3.6-4.0		●	●	●	
	45	4.1-4.5		●	●	●	●
	50	4.6-5.0		●	●	●	●
	60	5.1-6.0			●	●	●
	70	6.1-7.0			●	●	●
	80	7.1-8.0				●	●
	90	8.1-9.0				●	●
	01	9.1-10.0				●	●
 <p>For K series</p>	Collet code	Cable diameter	0K		1K	2K	
	40	3.6-4.0	●		●		
	45	4.1-4.5	●		●		
	50	4.6-5.0	●		●		●
	60	5.1-6.0			●		●
	70	6.1-7.0			●		●
	75	7.1-7.5					●
	80	7.6-8.0					●
85	8.1-8.5					●	

Panel holes dimension

	00	0B	1B	2B	3B	0K	1K	2K	0S	1S
	A	8.3	10.6	13.6	16.6	12.5	14.6	18.6	8.3	10.6
	D	9.1	12.1	15.1	18.1	14.1	16.1	20.1	9.1	12.1

Sleeve




Sleeve code	Cable diameter	0B	1B	2B	3B
25	2.5-2.9	●			
30	3.0-3.4	●	●		
35	3.5-3.9	●	●		
40	4.0-4.4	●	●	●	
45	4.5-5.0	●	●	●	
51	5.1-5.6		●	●	●
57	5.7-6.2		●	●	●
63	6.3-7.0		●	●	●
71	7.1-7.9		●	●	●
80	8.0-8.9			●	●
90	9.0-9.9			●	●
01	10.0-10.5				●


Sleeve color

Color	Blue	White	Gray	Yellow	Brown
Code	A	B	G	J	M
Color	Black	Red	Orange	Green	
Code	N	R	S	V	


## Multipole &amp; high-pressure connectors

	Shell	2B
	Contact diameter	0.9mm
	Bucket diameter	0.85mm
	Test voltage	6000V
	Working voltage	Less than 2500V
	Dimension	Refer HT plug & TZ receptacle of 2B series
	Contact type	Solder,PCB
	Special requirement	Using epoxy resin seal the soldering part after soldering the plug and receptacle


## Unipole 120 connector

	Shell	1S 2B
	Contact diameter	2.0mm
	Bucket diameter	1.0mm
	Test voltage	1500V
	Working voltage	Less than 1000V
	Dimension	Refer TT plug & TZ receptacle of 2B & 1S series
	Contact type	solder
	Special requirement	Using epoxy resin seal the soldering part after soldering the plug and receptacle

## Unipole 250 connector

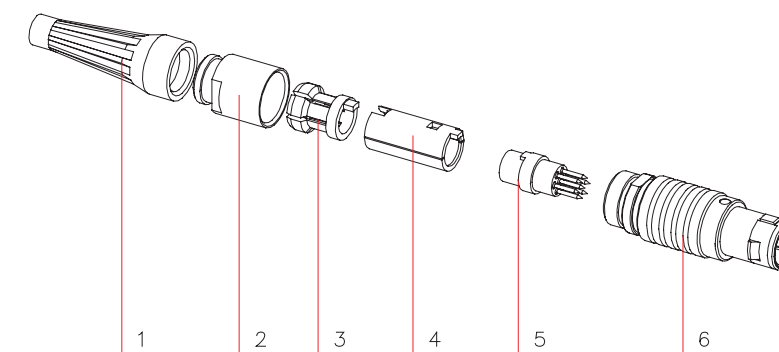
	Shell	0S 1S
	Contact diameter	0.9mm
	Bucket diameter	0.85mm
	Test voltage	2500V
	Working voltage	1000V
	Dimension	Refer HT plug and TZ receptacle of 0S & 1S series
	Contact type	solder
	Special requirement	Using epoxy resin seal the soldering part after soldering the plug and receptacle

## 1P series air channel connectors

	Shell	1P
	Hose inside diameter	3.5-4.0mm
	Hose outside diameter	6.0mm
	Gas pressure	Less than 400mmHg
	Leakage	Less than 3mm/minute 400mmHg
	Dimension	Refer TT plug and SZ receptacle of 1P series
	Special requirement	none

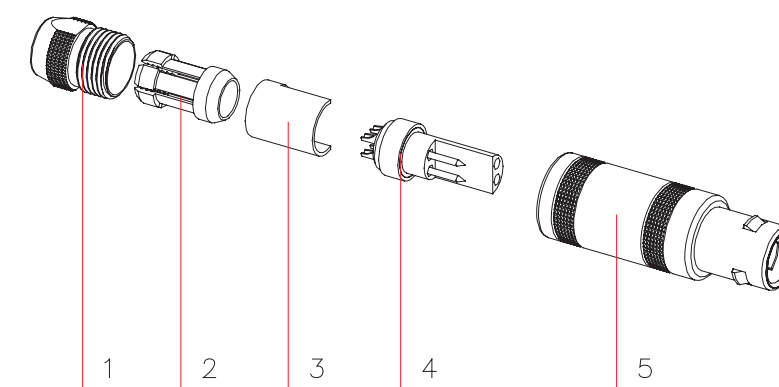
## Assembly method

## Plug of B series connectors



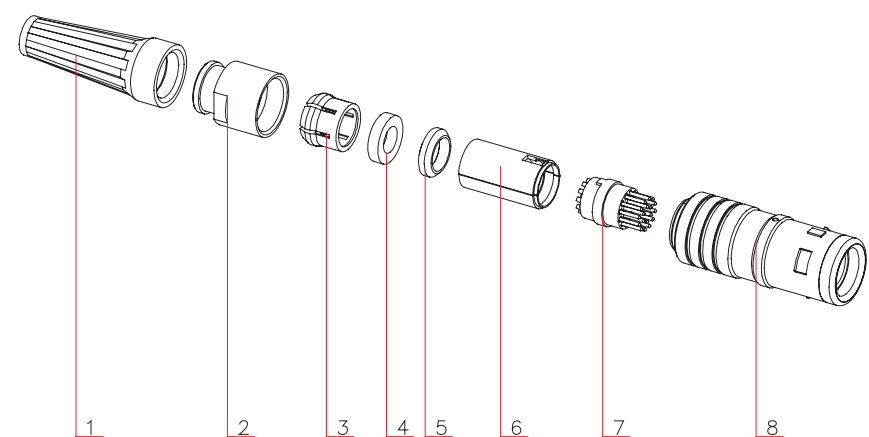
1. Get the cable through sleeve ① collet nut ② and collet ③ in order, then solder it onto the insulator subassy orderly.
2. Put the split insert carrier ④ onto the soldered insulator subassy ⑤, assure that the slot of split insert carrier ④ mate with the heave of insulator subassy ⑤.
3. Put the collet ③ on the right position of cable, make sure the heave of collet ③ mate with the slot of split insert carrier ④.
4. Push the insulator subassy ⑤ split insert carrier ④ collet ③ into the outer shell in order, make sure the heave of split insert carrier ④ mate with the slot of outer shell ⑥.
5. Screw the collet nut ② into the outer shell ⑥ tightly.
6. Hitch the sleeve ① onto the corresponding step of collet nut ②.

## Plug of S series connector



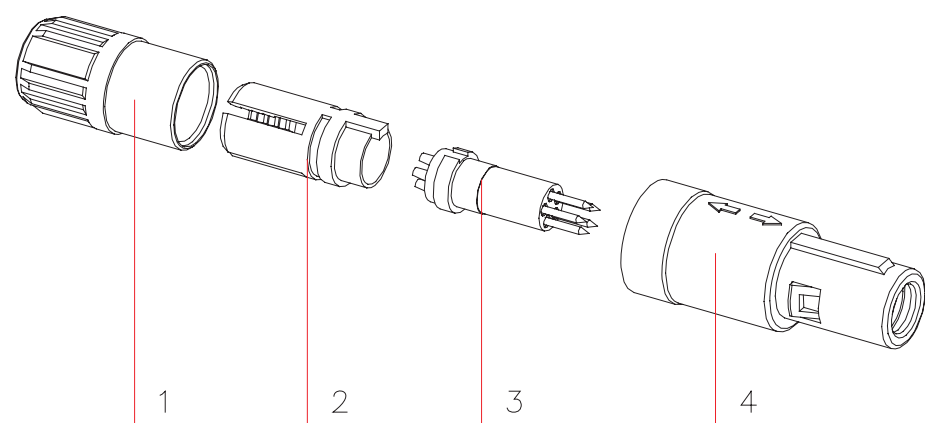
1. Get the cable through collet nut ① collet ② and split insert carrier ③ in order, then solder it to the insulator subassy ④ orderly.
2. Slide the split insert carrier ③ to the insulator subassy ④, make sure the heave of split insert carrier ③ mate with the slot of insulator subassy ④, then push collet ② to the right position of cable.
3. Push the assembled collet ② split insert carrier ③ and insulator subassy ④ into the outer shell ⑤.
4. Screw collet nut ① into the outer shell ⑤ tightly.

### Plug of K series connector



1. Get the cable through sleeve ① collet nut ② collet ③ flexible gasket ④ and earthing cone ⑤ in order, then solder it to the corresponding contacts of insulator subassy ⑦ orderly.
2. Put the split insert carrier ⑥ onto the insulator subassy ⑦, make sure the heave of split insert carrier ⑥ mate with the slot of insulator subassy ⑦, then push the earthing cone ⑤ flexible gasket ④ collet ③ to the right position, assure the full sheath of cable insert the earthing cone ⑤.
3. Slide the assembled insulator subassy ⑦ into the outer shell ⑧, make sure the slot of split insert carrier ⑥ mate with the heave of outer shell ⑧.
4. Screw the collet nut ② to the outer shell ⑧ tightly.
5. Put the sleeve ① to the collet nut ②.

### Plug of P series connector



1. Get the cable through collet nut ① collet ②, then solder it to the corresponding position of insulator subassy ③.
2. Put the collet ② onto the soldered insulator subassy ③, make sure the heave of collet ② mate with the slot of insulator subassy ③.
3. Slide the insulator subassy ③ into outer shell ④, make sure the heave of collet ② mate with the slot of outer shell ④.
4. Put the collet nut ① into outer shell ④, and screw the collet nut tightly.

### Metal BP connector

Serial NO.	Item	Diagram	Dimension	Structure principle	Remark
1	BP01			Lock with groove, seal with gasket ring	
2	BP04			Lock with screw thread, seal with conicity	Mate with BP07
3	BP05			Lock and seal with conicity	Mate with BPN
4	BP07			Lock with screw thread, seal with conicity	Mate with BP04
5	BP10			Lock with screw thread, seal with gasket ring	
6	BP11			Lock with groove, seal on the top	
7	BP15			Lock with groove, seal with gasket ring	Mate with BP15-01, BP15-13
8	BP12			Lock with groove, seal with gasket ring	Mate with BP15
9	BP13			Lock with groove, seal with gasket ring	Mate with BP15
10	BP31			Lock with screw thread, seal with conicity	Mate with BP32
11	BP32			Lock with screw thread, seal with conicity	Mate with BP31
12	BPN			Lock and seal with conicity	Mate with Bp05

A large, light blue rectangular area with rounded corners and a dashed border, containing horizontal dotted lines for writing.

A large, light blue rectangular area with rounded corners and a dashed border, containing horizontal dotted lines for writing.