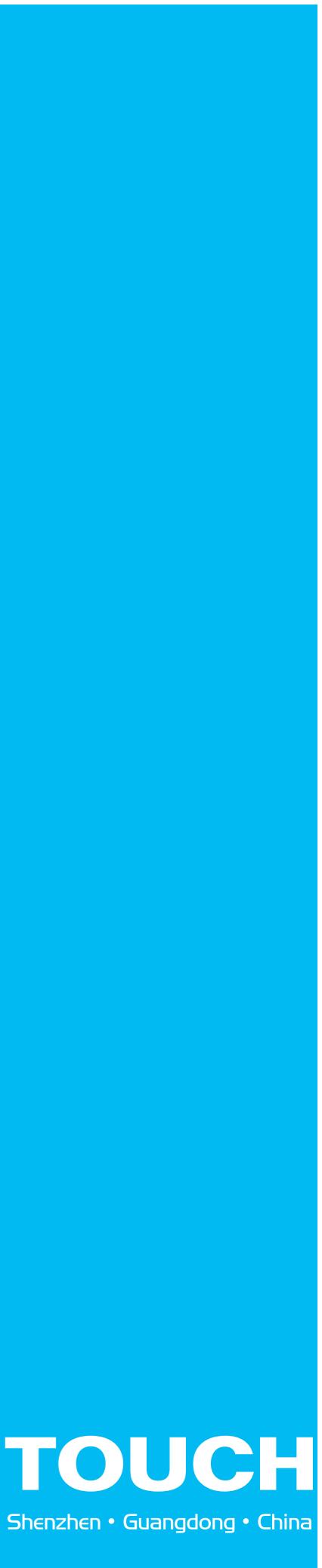




TOUCH
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TOUCH
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Brief introduction

Touch Technology (Shenzhen) Co., LTD. established in 2006 is a company combined with the development, design, manufacture and service. The main products are push-pull connectors and cable manufacturing.

The products are widely used in medical treatment, communication, automobile, war industry and other electronic measurement and testing instrument. Products have superior performance and reliable quality. Also they achieved the international advanced level, and can work with same type product which made by foreign company. At the same time, the company can design custom product based on customer's special requirements. The company passed the ISO 9001:2008 quality system authentication and UL certification. The aim of company is the good faith first, customer first, also build a complete customer service system. Give employee full play to the enthusiasm and creativity. Establish the harmonious enterprise culture, and promote TOUCH move ahead.

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. push-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.

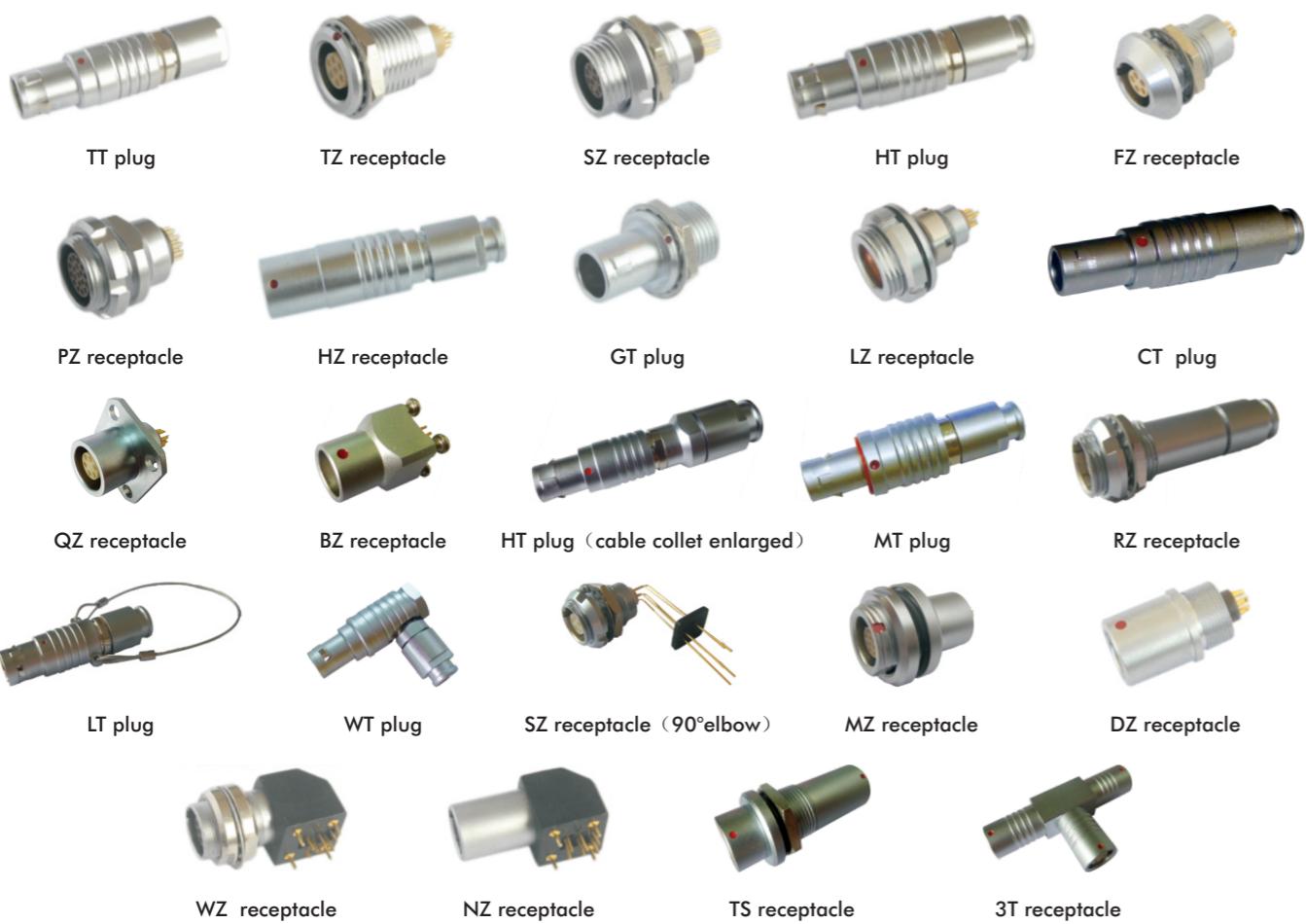
Contact: copper alloy plated with gold.

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B Series

Metal shell style



S Series

Metal shell style



C Series

Metal Shell Style



F Series



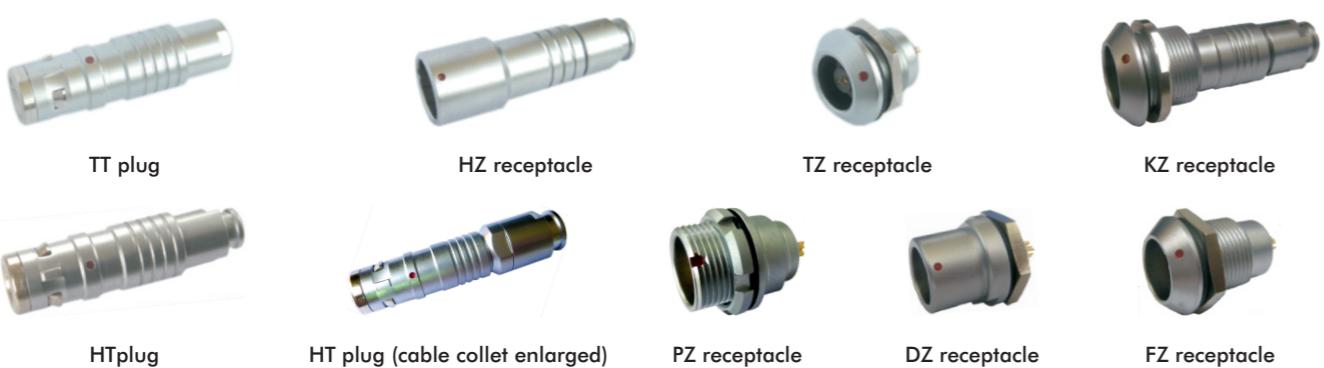
P Series

Plastic shell style



K Series

Metal Shell Style



S Series

Metal shell style



Accessories



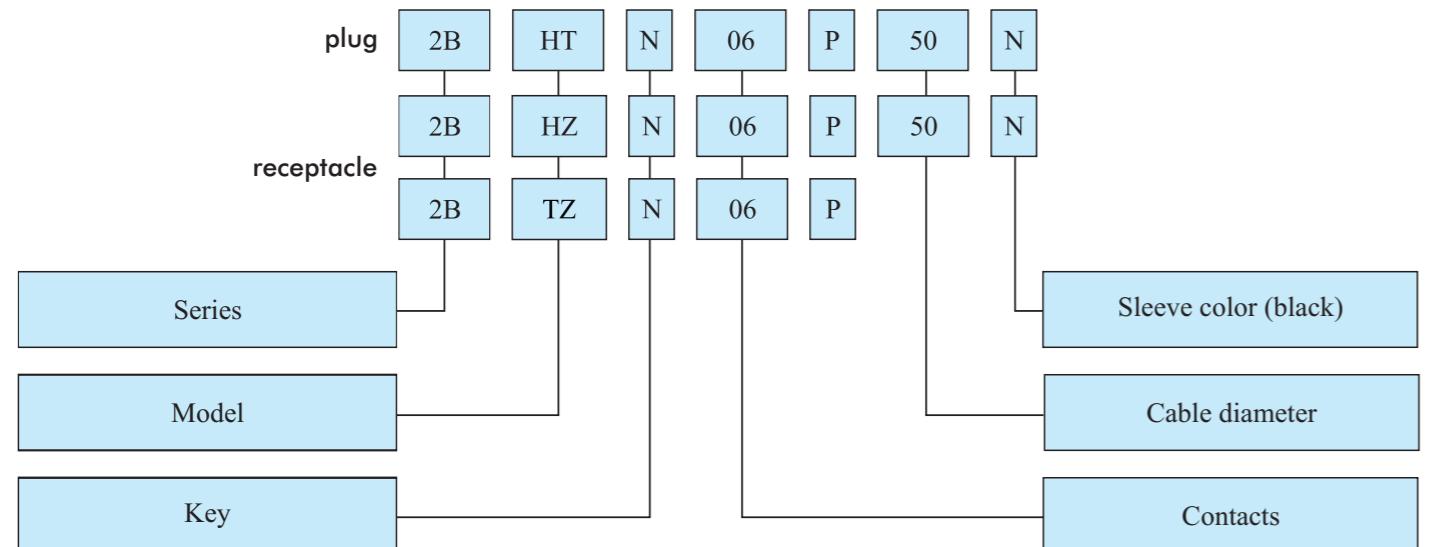
B Series connector with the following main features:

1. Smart push-pull self-latching system;
2. Multicore types with 2 to 26 pins;
3. Solder or PCB contacts (straight or elbow);
4. High-density installation for space-saving;
5. Different kinds of keying options to avoid mismatching;
6. The right direction shielding effect, anti-electromagnetic interference.

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 endurable and good insulating;
4. Sleeve molded with soft plastic to protect cables.

Numbering rules:



For 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 rolling and mismatching, cable collet to fix cable.

| | | Items | | Dimension | | | |
|--------|-------|-------|-----|-----------|-----|----|--|
| Series | Style | L | A | C | S1 | S2 | |
| 00B | TT | 27 | 6.5 | 19 | 5.5 | 6 | |
| 0B | TT | 36 | 9.5 | 30 | 8 | 8 | |
| 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 | S2 | |
| 00B | HT | 27 | 6.5 | 19 | 5.5 | 6 | |
| 0B | HT | 35 | 9.5 | 25 | 8 | 8 | |
| 1B | HT | 41 | 12 | 30 | 10 | 9 | |
| 2B | HT | 48 | 15 | 36 | 13 | 13 | |
| 3B | HT | 57 | 18 | 42 | 16 | 15 | |

HT plug

General straight plug with bend relief, with key(N,A,B-W) to avoid moving and mismatching) , cable collet to fix cable, with sleeve to prevent cable from bending.(The cable collet of the plug is enlarged, 0B is enlarged to 1B、 1B is enlarged to 2B、 2B is enlarged to 3B)

| | | Items | | Dimension | | | | | |
|--------|-------|-------|------|-----------|------|----|----|----|--|
| Series | Style | L | N | A | B | S1 | S2 | S3 | |
| 0B | HT | 45.3 | 35.3 | 9.4 | 11 | 9 | 10 | 8 | |
| 1B | HT | 53 | 42 | 12 | 14.5 | 13 | 13 | 10 | |
| 2B | HT | 60 | 48 | 15 | 17 | 15 | 15 | 13 | |

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 | E | S1 | S2 | e | |
| 0B | GT | 10 | 12.4 | 20.8 | 18.4 | 11.2 | 3.5 | 11 | 8.2 | M9*0.5 | |
| 1B | GT | 14 | 15.8 | 25.2 | 22.6 | 12.5 | 6 | 14 | 10.5 | M12*1.0 | |
| 2B | GT | 18 | 19.2 | 24.7 | 22.5 | 13.8 | 5 | 17 | 13.5 | M15*1.0 | |
| 3B | GT | 21 | 25 | 32 | 29.1 | 17.0 | 7.5 | 22 | 16.5 | M18*1.0 | |

MT plug

Straight plug,with key(N,A,B-W) to avoid moving and mismatching. cable collet to fix cable, the head is sealed structure.

| | | Items | | Dimension | | | |
|--------|-------|-------|------|-----------|------|------|--|
| Series | Style | A | L | M | S1 | S2 | |
| 0B | MT | 10.9 | 34.5 | 24.5 | 8.0 | 8.0 | |
| 1B | MT | 13.5 | 41 | 30 | 10.0 | 9.0 | |
| 2B | MT | 16.5 | 48 | 36 | 13.0 | 13.0 | |
| 3B | MT | 19.0 | 56 | 41.5 | 16.5 | 15.0 | |

LT plug

Straight plug, with key(N,A,B-W) to avoid rolling and mismatching, cable collet to fix cable and the string to unlatch.



| | | Items | | Dimension | | | | | | |
|--------|-------|-------|------|-----------|----|-----|----|----|--|--|
| Series | Style | A | B | L | C | N | S1 | S2 | | |
| 0B | LT | 9.2 | 15.8 | 34 | 24 | 140 | 8 | 8 | | |
| 1B | LT | 12 | 18 | 41 | 30 | 150 | 9 | 10 | | |
| 2B | LT | 14.6 | 21 | 48 | 36 | 160 | 13 | 13 | | |
| 3B | LT | 18 | 25 | 57 | 42 | 190 | 15 | 16 | | |

CT plug

Straight plug, with key(N,A,B-W) to avoid rolling and mismatching, cable collet to fix cable, without latching structure.



| | | Items | | Dimension | | | | |
|--------|-------|-------|------|-----------|------|------|--|--|
| Series | Style | A | L | C | S1 | S2 | | |
| 00B | CT | 8.2 | 27.5 | 19.5 | — | 5.5 | | |
| 0B | CT | 9.4 | 34.5 | 24.5 | 8.0 | 8.0 | | |
| 1B | CT | 12 | 41 | 30 | 10.0 | 9.0 | | |
| 2B | CT | 15 | 48 | 36 | 13.0 | 13.0 | | |

WT plug

90°right-angle plug, with key(N,A,B-W) to avoid rolling and mismatching. cable collet to fix cable.



| | | Items | | Dimension | | | | | | |
|--------|-------|-------|-----|-----------|------|------|-----|-----|-----|--|
| Series | Style | A | D | H | L | M | S1 | S2 | S3 | |
| 0B | WT | 10.9 | 6.3 | 21.2 | 29.8 | 19.8 | 9.0 | 8.0 | 8.0 | |
| 1B | WT | 13.5 | 8 | 27.6 | 37 | 26 | 12 | 10 | 9 | |
| 2B | WT | 16.5 | 9 | 32.5 | 41.1 | 29.1 | 15 | 13 | 13 | |

TZ receptacle

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



| | | Items | | Dimension | | | | | | |
|--------|-------|-------|------|-----------|-----|------|-----|------|------|----|
| Series | Style | A | B | e | E | L | M | N | S1 | S3 |
| 00B | TZ | 8 | 10 | M7*0.5 | 6 | 15.9 | 1 | 16.6 | 6.3 | 9 |
| 0B | TZ | 10 | 12.3 | M9*0.5 | 7 | 21.3 | 1.2 | 18 | 8.2 | 11 |
| 1B | TZ | 14 | 16 | M12*1.0 | 7.5 | 23.2 | 1.5 | 18.7 | 10.5 | 14 |
| 2B | TZ | 18 | 19.2 | M15*1.0 | 8.0 | 24.8 | 2 | 20 | 13.5 | 17 |
| 3B | TZ | 21 | 25 | M18*1.0 | 11 | 30.7 | 2 | 25 | 16.5 | 22 |

SZ receptacle

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



| | | Items | | Dimension | | | | | | |
|--------|-------|-------|------|-----------|-----|------|-----|------|------|----|
| Series | Style | A | B | e | E | L | M | N | S1 | S3 |
| 0B | SZ | 12 | 12.5 | M9*0.5 | 5.5 | 21.3 | 2.5 | 16.6 | 8.2 | 11 |
| 1B | SZ | 16 | 16 | M12*1.0 | 6.0 | 23.2 | 3.2 | 18.7 | 10.5 | 14 |
| 2B | SZ | 20 | 19.5 | M15*1.0 | 6.5 | 24.8 | 3.5 | 20 | 13.5 | 17 |
| 3B | SZ | 24 | 25 | M18*1.0 | 9 | 30.7 | 4.5 | 25 | 16.5 | 22 |

BZ receptacle

Straight receptacle, screw fixed (00B fixed by solder tip), PCB type,with key(N,A,B-W) to avoid rolling and mismatching.



| | | Items | | Dimension | | | | | | |
|--------|-------|-------|----|-----------|-------|----|-----|--|--|--|
| Series | Style | A | B | C | D | L | N | | | |
| 00B | BZ | 6.8 | 7 | 7 | 5.08 | 14 | 3 | | | |
| 0B | BZ | 9 | 10 | 8 | 7.62 | 17 | 4.5 | | | |
| 1B | BZ | 11 | 12 | 8 | 7.62 | 19 | 4.5 | | | |
| 2B | BZ | 14 | 15 | 9 | 10.16 | 20 | 5.5 | | | |

SZ receptacle (90° elbow pin)

General receptacle assembled and fixed either inside or outside, PCB type, 90°elbow pin, with key(N,A,B-W) to avoid rolling and mismatching.



| | | Items | | Dimension | | | | | | |
|--------|-------|-------|------|-----------|-----|-----|------|------|----|--|
| Series | Style | A | B | e | E | L | M | S1 | S2 | |
| 0B | SZ | 12 | 12.5 | M9*0.6 | 5.5 | 2.5 | 16.6 | 8.2 | 11 | |
| 1B | SZ | 16 | 16 | M12*1.0 | 6.0 | 3.2 | 18.7 | 10.5 | 14 | |
| 2B | SZ | 20 | 19.5 | M15*1.0 | 6.5 | 3.5 | 20 | 13.5 | 17 | |

PZ receptacle

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



| | | Items | | Dimension | | | | | | |
|--------|-------|-------|----|-----------|-----|------|-----|------|------|----|
| Series | Style | A | B | e | E | L | M | N | S1 | S4 |
| 0B | PZ | 10 | 12 | M9*0.5 | 2.5 | 22 | 2.5 | 16.6 | 8.2 | 9 |
| 1B | PZ | 14 | 16 | M12*1.0 | 5.0 | 24 | 3.2 | 18.7 | 10.5 | 12 |
| 2B | PZ | 18 | 20 | M15*1.0 | 4.5 | 27.5 | 3.5 | 20 | 13.5 | 15 |
| 3B | PZ | 24 | 25 | M18*1.0 | 9 | 31 | 4.5 | 25 | 16.5 | 18 |

MZ receptacle

General receptacle assembled inside,fixed outside,vacuum sealed type,with key(N,A,B-W) to avoid rolling and mismatching.



| | | Items | | Dimension | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

RZ receptacle

Fixed receptacle by two nuts,with key (N, A, B, W) to avoid rolling and mismatching. cable collet to fix cable, with sleeve to prevent the cable from bending.



RZ receptacle

| | | Items | | Dimension | | | | | | |
|--------|-------|-------|------|-----------|-----|----|-----|------|----|----|
| Series | Style | A | B | e | E | L | M | S1 | S2 | S3 |
| 0B | RZ | 12 | 12.5 | M9*0.5 | 5.5 | 35 | 2.5 | 8.2 | 8 | 11 |
| 1B | RZ | 16 | 16 | M12*1 | 6 | 40 | 3.2 | 10.5 | 9 | 14 |
| 2B | RZ | 20 | 19.5 | M15*1 | 6.5 | 47 | 3.5 | 13.5 | 13 | 17 |

DZ receptacle

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



DZ receptacle

| | | Items | | Dimension | | | |
|--------|-------|-------|-------|-----------|------|--|--|
| Series | Style | A | B | e | D | | |
| 00B | DZ | 15.5 | 9.5 | M6*0.5 | 6.5 | | |
| 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 | | |

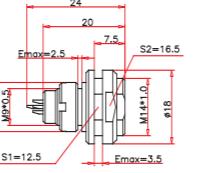
LZ receptacle

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



LZ receptacle

| | | Items | | Dimension | | | |
|--------|-------|-------|--|-----------|--|--|--|
| Series | Style | | | | | | |
| 0B | LZ | | | | | | |

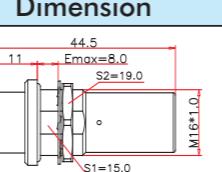

TS receptacle

Fixed bi-pass receptacle, nut fixed,with key (N, A, B, W) to avoid moving and mismatching.



TS receptacle

| | | Items | | Dimension | | | |
|--------|-------|-------|--|-----------|--|--|--|
| Series | Style | | | | | | |
| 2B | TS | | | | | | |

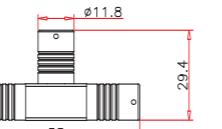

3T receptacle

T type triplet receptacle, with key (N, A, B, W) to avoid rolling and mismatching.



3T receptacle

| | | Items | | Dimension | | | |
|--------|-------|-------|--|-----------|--|--|--|
| Series | Style | | | | | | |
| 1B | 3T | | | | | | |


FZ receptacle

Sealed receptacle assembled outside, fixed inside with key to avoid rolling and mismatching.



FZ receptacle

| | | Items | | Dimension | | | | | | |
|--------|-------|-------|------|-----------|-----|------|-----|------|----|--|
| Series | Style | A | B | e | E | L | M | S1 | S2 | |
| 00B | FZ | 11 | 10 | M7*0.5 | 6.0 | 18.6 | 2.5 | 6.3 | 9 | |
| 0B | FZ | 13 | 12.7 | M9*0.5 | 5.5 | 20.2 | 3.0 | 8.2 | 11 | |
| 1B | FZ | 18 | 15.8 | M12*1.0 | 6.0 | 26.6 | 4.5 | 10.5 | 14 | |
| 2B | FZ | 20 | 19.5 | M15*1.0 | 8.0 | 24.8 | 4 | 13.5 | 17 | |

QZ receptacle

Sealed receptacle assembled outside, fixed inside with key to avoid rolling and mismatching.



QZ receptacle

| | | Items | | Dimension | | | | | | |
|--------|-------|-------|----|-----------|-----|------|------|------|--|--|
| Series | Style | A | B | C | D | L | M | N | | |
| 1B | QZ | 12 | 19 | 12.7 | 1.5 | 21.7 | 8.8 | 16.5 | | |
| 2B | QZ | 15 | 22 | 15.5 | 2 | 24.5 | 10.5 | 18.5 | | |

WZ receptacle

Elbow (90 degree) printed circuit receptacle, fixed with two nuts, with key (N,A,B-W) to avoid rolling and mismatching. The solder Pin with contact pin as below mapping table.



WZ receptacle

| | | Items | | Dimension | | | | | | | |
|--------|-------|-------|------|-----------|------|------|-----|----|------|------|-----|
| Series | Style | A | B | e | C | D | H | F | M | S1 | E |
| 0B | WZ | 25 | 13.3 | M9*0.5 | 11.7 | 12.7 | 6.7 | 12 | 14.6 | 10.5 | 3.5 |
| 1B | WZ | 27 | 13.3 | M11*0.5 | 12.6 | 14 | 7.5 | 14 | 16.6 | 12 | 5.0 |

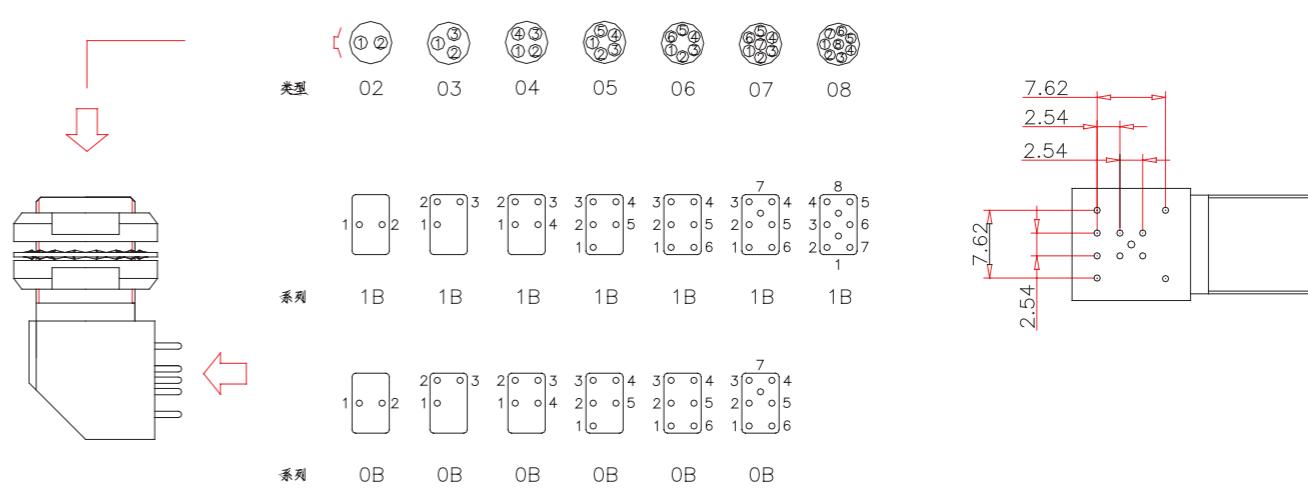
NZ receptacle

Elbow (90 degree) printed circuit receptacle, solder fixed, with key (N, A, B, W) to avoid moving and mismatching. The solder Pin with contact pin as below mapping table.



NZ receptacle

| | | 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 | | |



NZ receptacle

Right angle PCB receptacle, ground soldering fixed.

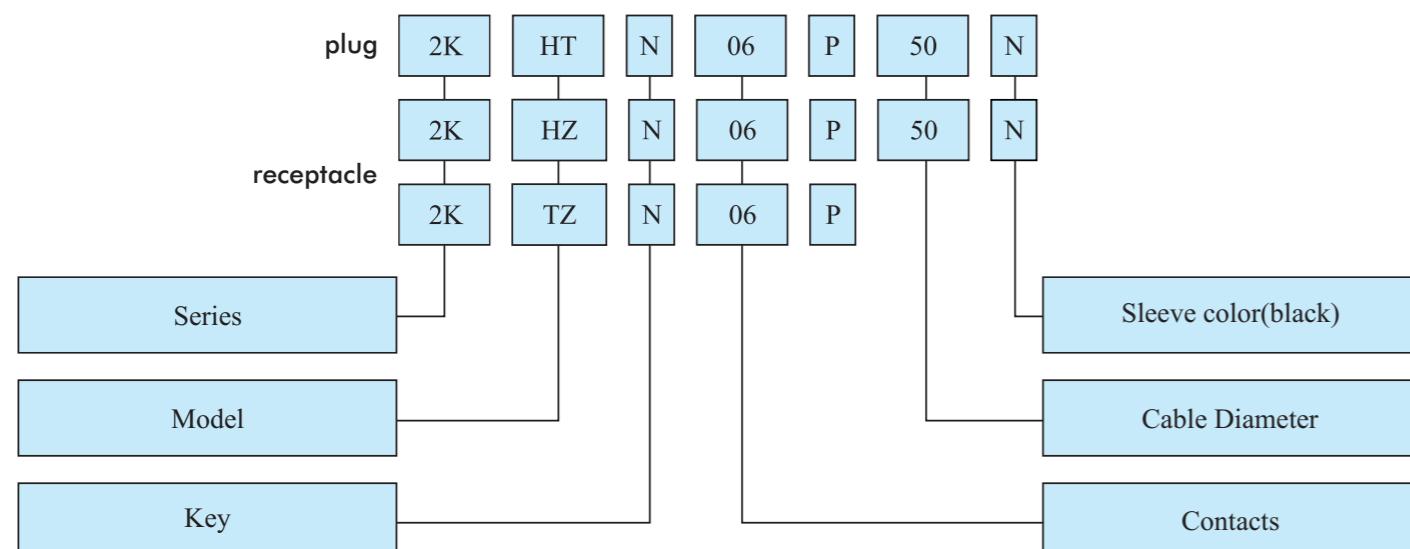
| | Items | | Dimension | |
|------|--------|-------|-----------|--|
| | Series | Style | | |
| NZ插座 | 00B | NZ | | |

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 connecter (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 endurable and good insulating;
4. sleeve molded with soft plastic to protect cables;
5. waterproof gasket ring is made of high-temperature endurable silicone rubber.

Numbering rules:**For 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 rolling and mismatching, cable collet to fix cable.

| | | Items | | | | Dimension | | | |
|--------|-------|-------|------|------|----|-----------|--|--|--|
| Series | Style | A | L | M | S1 | | | | |
| 0K | TT | 11 | 37.5 | 26.5 | 8 | | | | |
| 1K | TT | 13 | 44 | 29 | 9 | | | | |
| 2K | TT | 16 | 50 | 34 | 13 | | | | |
| 3K | TT | 19 | 64 | 43 | 15 | | | | |

HT plug

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

| | | Items | | | | Dimension | | | |
|--------|-------|-------|----|------|----|-----------|--|--|--|
| Series | Style | L | A | M | S1 | | | | |
| 0K | HT | 37.5 | 11 | 26.5 | 8 | | | | |
| 1K | HT | 44 | 13 | 29 | 9 | | | | |
| 2K | HT | 50 | 16 | 34 | 13 | | | | |
| 3K | HT | 19 | 64 | 43 | 15 | | | | |

HT plug

General waterproof plug, with key (N, A, B, W) to avoid rolling and mismatching, cable collet to fix cable, with sleeve to prevent the cable from bending.(The cable collet of the plug is enlarged, 0K is enlarged to 1K, 1K is enlarged to 2K, 2K is enlarged to 3K.)

| | | Items | | | | Dimension | | | |
|--------|-------|-------|------|----|------|-----------|----|--|--|
| Series | Style | L | N | A | B | S1 | S2 | | |
| 0K | HT | 46.8 | 36.8 | 11 | 11 | 10 | 9 | | |
| 1K | HT | 53.7 | 39.7 | 13 | 14.5 | 13 | 13 | | |
| 2K | HT | 60 | 44 | 16 | 17 | 16 | 15 | | |

TZ receptacle

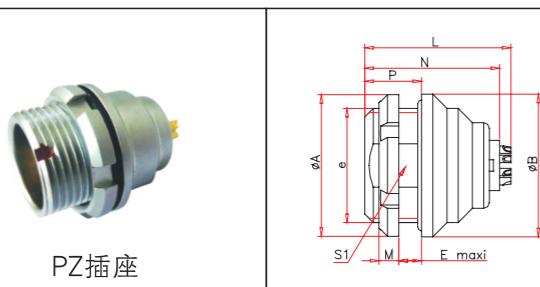
Receptacle assembled outside, fixed inside, with key (N, A, B, W) to avoid rolling and mismatching.

| | | Items | | | | | | | | Dimension | | | | | | | | |
|--------|-------|-------|------|---------|-----|------|-----|------|------|-----------|--|--|--|--|--|--|--|--|
| Series | Style | A | B | e | E | L | M | N | S2 | S3 | | | | | | | | |
| 0K | TZ | 18 | 19.7 | M14*1.0 | 4.5 | 21.3 | 4 | 19 | 12.5 | 17 | | | | | | | | |
| 1K | TZ | 20 | 22 | M16*1.0 | 7.5 | 27.8 | 4.5 | 24 | 14.5 | 19 | | | | | | | | |
| 2K | TZ | 25 | 28 | M20*1.0 | 8.0 | 29 | 5 | 24 | 18.5 | 24 | | | | | | | | |
| 3K | TZ | 31 | 34 | M24*1.0 | 10 | 36.1 | 6 | 31.6 | 22.5 | 30 | | | | | | | | |

K Series

PZ receptacle

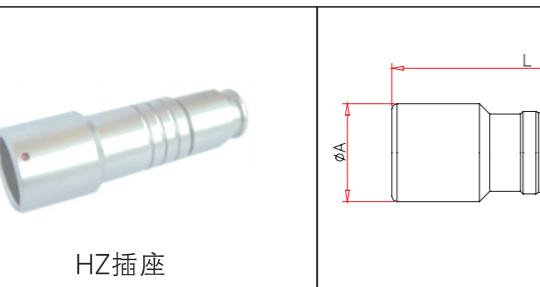
Receptacle assembled inside, fixed outside, with key (N, A, B, W) to avoid rolling and mismatching.



| | | Items | | Dimension | | | | | | | |
|--------|-------|-------|----|-----------|-----|------|-----|------|------|----|--|
| Series | Style | A | B | e | E | L | M | N | S1 | P | |
| 0K | PZ | 18 | 18 | M14*1.0 | 3.5 | 22 | 2.5 | 19 | 12.5 | 7 | |
| 1K | PZ | 20 | 20 | M16*1.0 | 6.0 | 27.8 | 3 | 24 | 14.5 | 10 | |
| 2K | PZ | 25 | 25 | M20*1.0 | 5.5 | 29 | 3.5 | 23.8 | 18.5 | 10 | |
| 3K | PZ | 30 | 31 | M24*1.0 | 7.5 | 36.1 | 4.5 | 31.6 | 22.5 | 12 | |

HZ receptacle

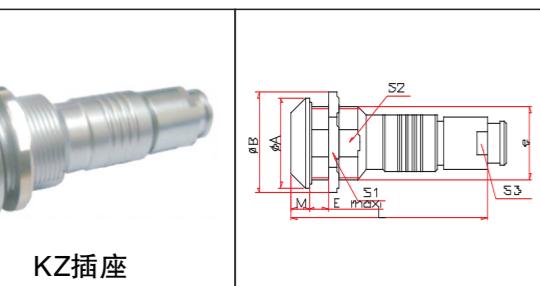
Coupler receptacle, used for connecting between cables, with key (N, A, B, W) to avoid rolling and mismatching. cable collet to fix cable, with sleeve to prevent cable from bending.



| | | Items | | Dimension | | |
|--------|-------|-------|--|-----------|-----|--|
| Series | Style | L | | A | S1 | |
| 0K | HZ | 34 | | 13.0 | 8.0 | |
| 1K | HZ | 45 | | 15 | 9.0 | |
| 2K | HZ | 53 | | 19 | 13 | |
| 3K | HZ | 65 | | 22.6 | 15 | |

KZ receptacle

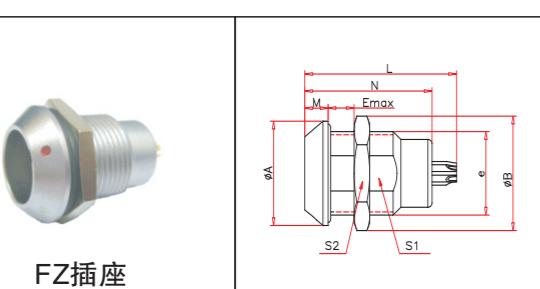
Fixed inside by nut, with key (N, A, B, W) to avoid rolling and mismatching.



| | | Items | | Dimension | | | | | | | |
|--------|-------|-------|------|-----------|----|------|-----|----|------|----|--|
| Series | Style | A | B | e | E | L | M | S1 | S2 | S3 | |
| 0K | KZ | 18 | 19.7 | M14*1 | 5 | 34 | 4 | 17 | 12.5 | 8 | |
| 1K | KZ | 20 | 21.9 | M16*1 | 8 | 45 | 4.5 | 19 | 14.5 | 9 | |
| 2K | KZ | 25 | 27.7 | M20*1 | 8 | 53.2 | 5 | 24 | 18.5 | 13 | |
| 3K | KZ | 31 | 34 | M24*1 | 10 | 65 | 6 | 30 | 22.5 | 15 | |

FZ receptacle

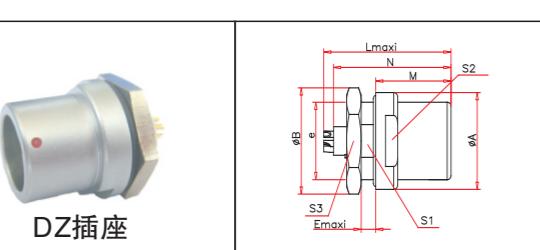
Fixed inside, with key (N, A, B, W) to avoid rolling and mismatching. Vacuum tight receptacle.



| | | Items | | Dimension | | | | | | | |
|--------|-------|-------|------|-----------|----|------|-----|------|------|------|--|
| Series | Style | A | B | e | E | L | M | N | S1 | S2 | |
| 0K | FZ | 18 | 19.7 | M14*1 | 5 | 22.6 | 4 | 19.4 | 17.0 | 12.5 | |
| 1K | FZ | 20 | 21.9 | M16*1 | 8 | 29.2 | 4.5 | 24.5 | 19.0 | 14.5 | |
| 2K | FZ | 25 | 27.7 | M20*1 | 8 | 27.3 | 5 | 24.5 | 24 | 18.5 | |
| 3K | FZ | 31 | 34 | M24*1 | 14 | 41.7 | 6 | 34 | 22.5 | 30 | |

DZ receptacle

Fixed inside by nut, with key (N, A, B, W) to avoid rolling and mismatching.



| | | Items | | Dimension | | | | | | | |
|--------|-------|-------|------|-----------|---|----|------|------|------|----|----|
| Series | Style | A | B | e | E | L | M | N | S1 | S2 | S3 |
| 0K | DZ | 18 | 19.7 | M14*1 | 2 | 21 | 10.5 | 19.2 | 12.5 | 15 | 17 |
| 1K | DZ | 20 | 21.9 | M16*1 | 2 | 26 | 15.5 | 24.2 | 14.5 | 17 | 19 |
| 2K | DZ | 25 | 27.7 | M20*1 | 2 | 30 | 17.0 | 26.2 | 18.5 | 20 | 24 |

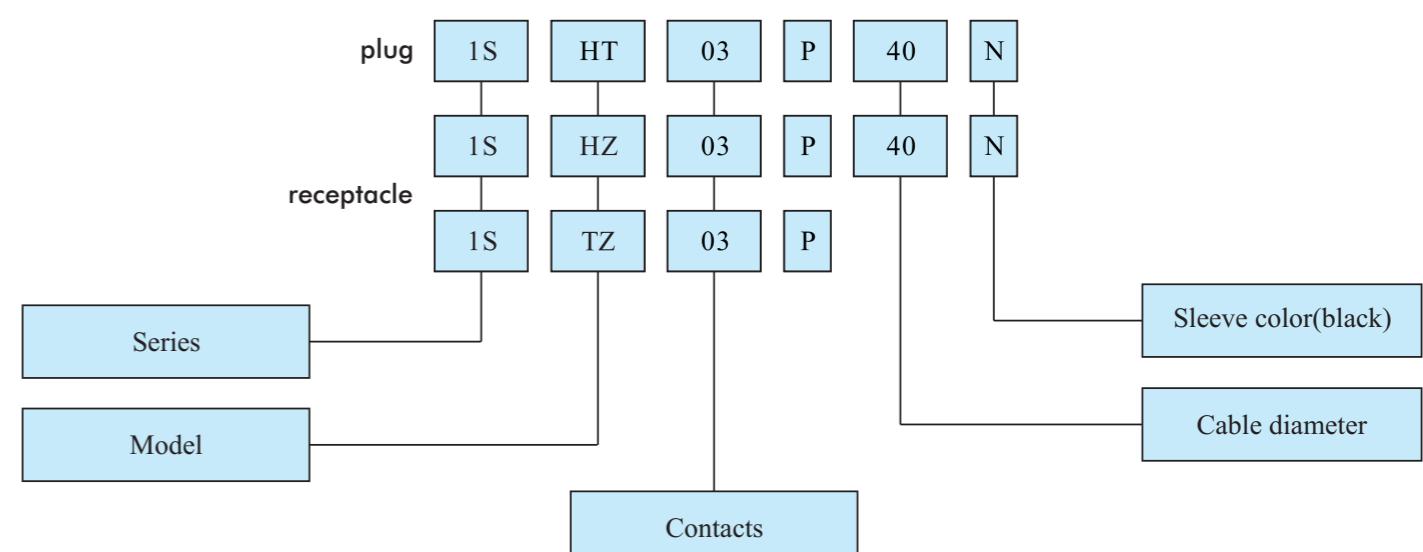
S Series connector with the following main features:

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 endurable and good insulating;
4. sleeve molded with soft plastic to protect cables.

Numbering rules:



For 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

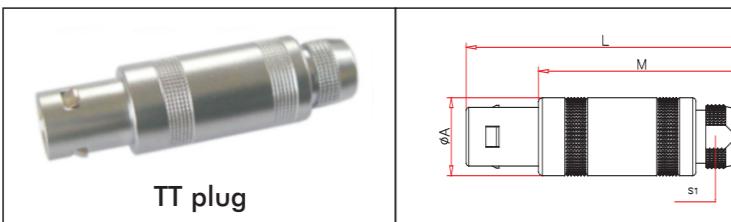
2SSZ008: 2S Series fixed receptacle, fixed with two nuts, without key, multi- contact of 8 pins. Omit the later code or replaced by 0000.

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

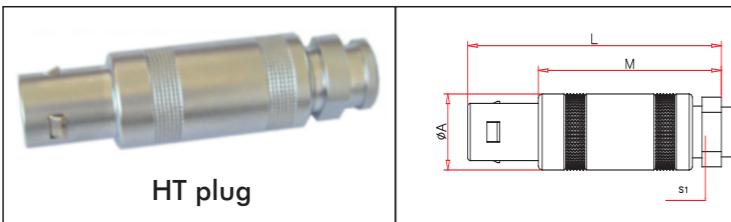
Standard straight plug, cable collet to fix cable. With inside components to avoid cables moving.



| 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

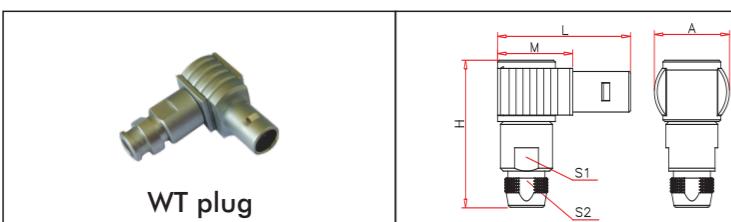
Standard straight plug, cable collet to fix cable. With inner components to avoid cables moving, and sleeve to prevent the cable from bending.



| Items | | Dimension | | | | |
|--------|-------|-----------|------|------|-----|--|
| Series | Style | A | L | M | S1 | |
| 0S | HT | 8.8 | 34.5 | 24.5 | 7.3 | |
| 1S | HT | 11.8 | 39.5 | 28.5 | 9 | |
| 2S | HT | 14.8 | 52 | 40 | 11 | |

WT plug

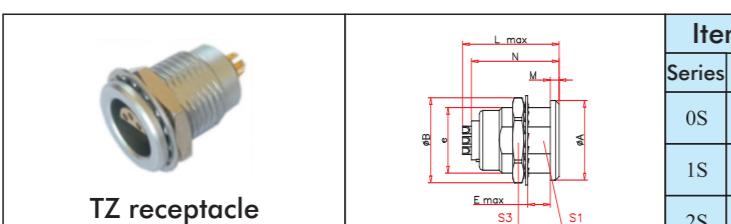
Right angle plug, cable collet fix the cable. With inner components to avoid cables moving, and sleeve to prevent the cable from bending.



| Items | | Dimension | | | | | |
|--------|-------|-----------|------|------|------|----|-----|
| Series | Style | A | L | M | H | S1 | S2 |
| 0S | WT | 13 | 23 | 13 | 25.3 | 8 | 6.5 |
| 1S | WT | 16 | 26.5 | 15.5 | 28.8 | 10 | 8.5 |
| 2S | WT | 20 | 31 | 19 | 37 | 13 | 11 |

TZ receptacle

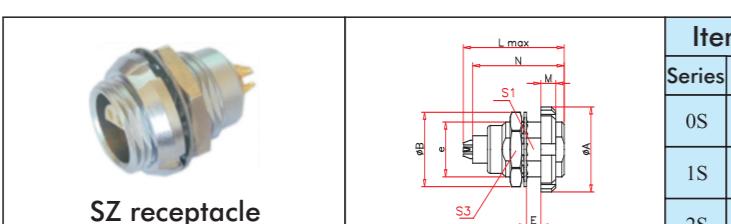
Fixed receptacle, fixed inside with nut.



| Items | | Dimension | | | | | | | | |
|--------|-------|-----------|------|---------|-----|------|-----|------|------|----|
| Series | Style | A | B | e | E | L | M | N | S1 | S3 |
| 0S | TZ | 10 | 12.3 | M9*0.5 | 7 | 19 | 1.2 | 17 | 8.2 | 11 |
| 1S | TZ | 14 | 16 | M12*1.0 | 7.5 | 20.3 | 1.5 | 17.8 | 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.



| Items | | Dimension | | | | | | | | |
|--------|-------|-----------|------|---------|-----|------|-----|------|------|----|
| Series | Style | A | B | e | E | L | M | N | S1 | S3 |
| 0S | SZ | 12 | 12.5 | M9*0.5 | 5.5 | 19 | 2.5 | 17 | 8.2 | 11 |
| 1S | SZ | 16 | 16 | M12*1.0 | 6.0 | 20.3 | 3.2 | 17.8 | 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.

| Items | | Dimension | | | | | | | | |
|--------|-------|-----------|------|---------|-----|------|-----|------|------|----|
| Series | Style | A | B | e | E | L | M | N | S1 | S4 |
| 0S | PZ | 12 | 12.5 | M9*0.5 | 5.5 | 19 | 2.5 | 17 | 8.2 | 11 |
| 1S | PZ | 16 | 16 | M12*1.0 | 6.0 | 20.3 | 3.2 | 17.8 | 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 rolling and mismatching, cable collet to fix cable, with sleeve to prevent the cable from bending.

| 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 |

WZ receptacle

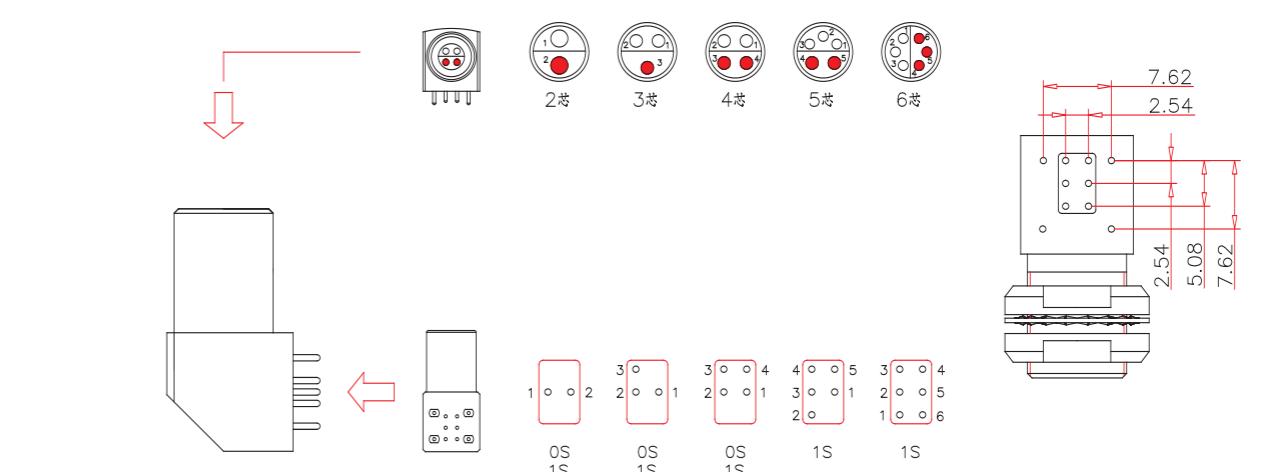
Elbow (90 degree) printed circuit receptacle, fixed with two nuts,with key (N, A, B-W) to avoid rolling and mismatching. The solder Pin with contact pin as below mapping table.

| Items | | Dimension | | | | | | | | | | |
|--------|-------|-----------|------|---------|------|------|-----|----|------|-----|------|--|
| Series | Style | A | B | e | C | D | E | F | M | H | S1 | |
| 0S | WZ | 25 | 13.3 | M9*0.5 | 11.7 | 12.7 | 3.5 | 12 | 14.6 | 6.7 | 10.5 | |
| 1S | WZ | 27 | 13.3 | M11*0.5 | 12.6 | 14 | 5.0 | 14 | 16.6 | 7.5 | 12 | |

NZ receptacle

Elbow (90 degree) printed circuit receptacle, solder fixed, with key (N, A, B-W) to avoid moving and mismatching. The solder Pin with contact pin as below mapping table.

| Items | | Dimension | | | | | | | |
|--------|-------|-----------|------|------|------|-----|----|------|-----|
| Series | Style | A | B | C | D | E | F | M | d |
| 0S | NZ | 25 | 13.3 | 11.7 | 12.7 | 6.7 | 12 | 14.6 | 0.7 |
| 1S | NZ | 27 | 13.3 | 12.6 | 14 | 7.5 | 14 | 16.6 | 0.7 |



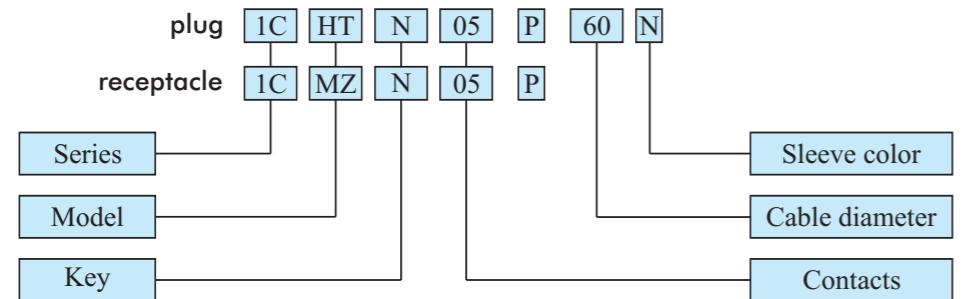
C Series connector with the following main features:

1. Smart push-pull self-latching system;
2. Multicort types with 2 to 21pins;
3. Solder or PCB connectors(straight or elbow);
4. High-density installation for space-saving;
5. 360 degree screening for full EMC shielding;
6. Socket with vacuum airproof structure.

Parts of connector:

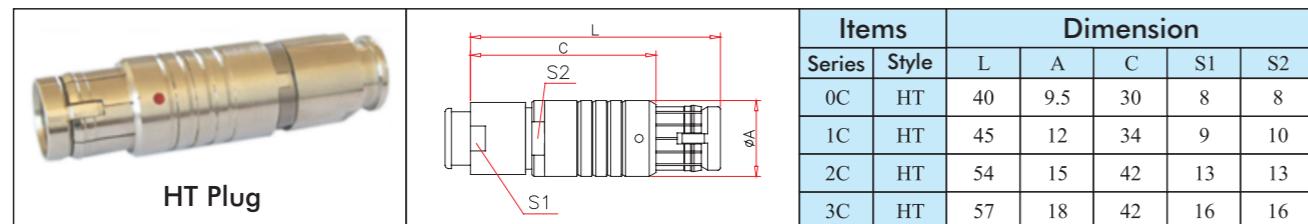
1. shell made of copper alloy, stainless steel is used in special occasions, plated with Nickel or Chrome;
2. pin and jack made of copper alloy, plated with gold;
3. insulator molded with engineering plastic which is high-temperature endurable and good insulating;
4. sleeve molded with soft plastic to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

Numbering rules:



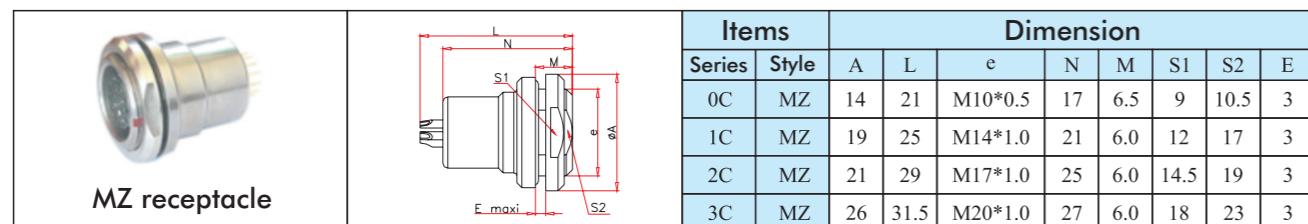
HT Plug

General straight plug, with key (N, A, B-W) to avoid rolling and mismatching, cable collet to fix the cable.



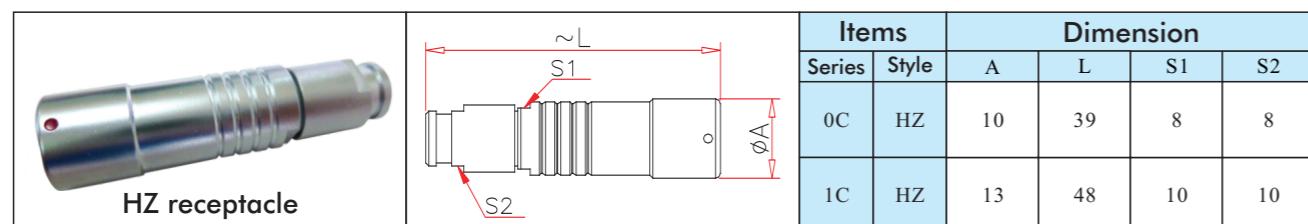
MZ receptacle

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



HZ receptacle

Coupler receptacle, used for connecting between cables, with key (N, A, B-W) to avoid rolling and mismatching, cable collet fix cable, waterproof.



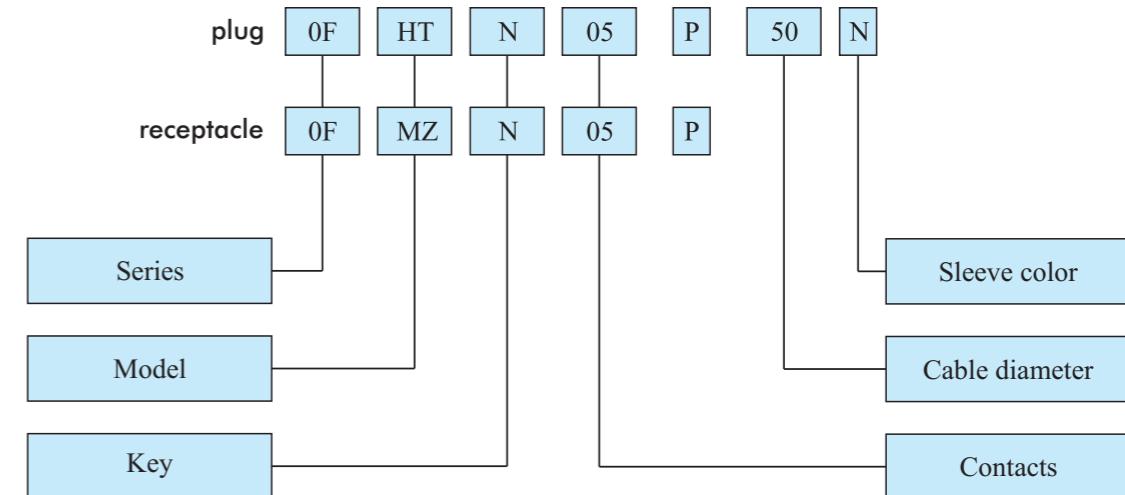
F series connector with the following main features:

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:

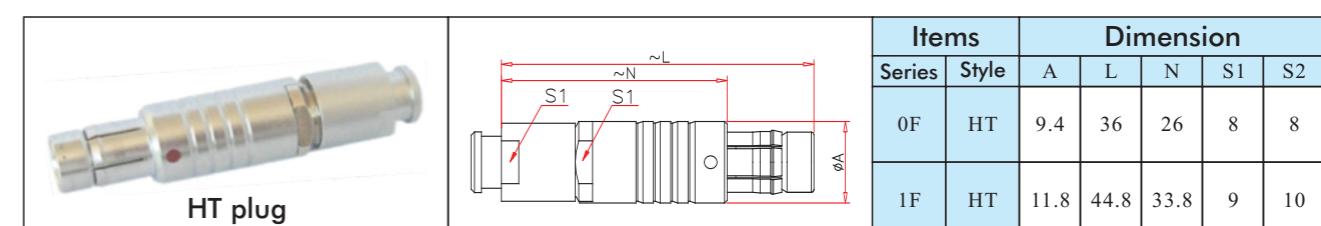
1. Shell made of copper alloy, stainless steel is used in special occasions, plated with nickel or chrome;
2. Pin and jack made of copper alloy, plated with gold;
3. Insulator molded with engineering plastic which is high-temperature endurable and good insulating;
4. Sleeve molded with soft plastic to protect cables.
5. Waterproof gasket ring is made of high-temperature endurable silicone rubber

F series part numbering rules:



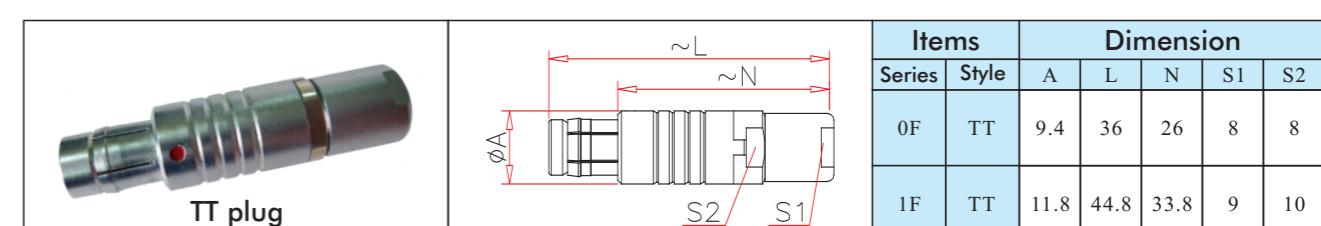
HT plug

General straight plug, inside component avoid rolling, half-circular metal avoid mismatching, and mismatching, cable collet to fix the cable, with sleeve to prevent the cable from bending.



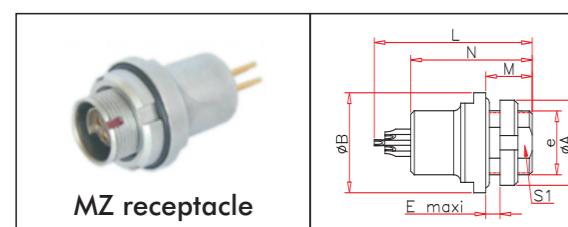
TT plug

General straight plug, cable collet fixes the cable, inside component avoid rolling, half-circular metal avoid mismatching, and mismatching.



MZ receptacle

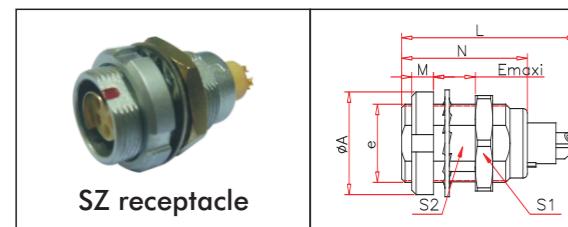
Vacuum sealed receptacle, outside nut fixed, half-circular metal avoid mismatching.



| Items | | Dimension | | | | | | | |
|--------|-------|-----------|----|------|----|---------|-----|---|---|
| Series | Style | L | N | A | B | e | S1 | E | M |
| 0F | MT | 21 | 17 | 12 | 14 | M9*0.5 | 8.2 | 3 | 6 |
| 1F | MT | 24.7 | 21 | 18.8 | 19 | M14*1.0 | 12 | 3 | 6 |

SZ receptacle

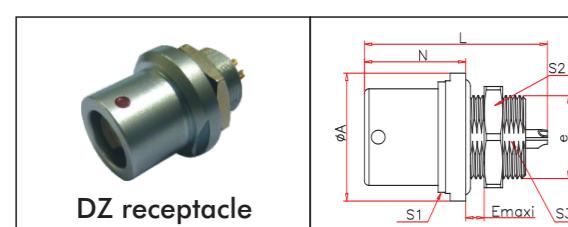
Inside nut fixed, half-circular metal avoid mismatching (IP50)



| Items | | Dimension | | | | | | | |
|--------|-------|-----------|------|----|---------|----|----|---|-----|
| Series | Style | L | N | A | e | S1 | S2 | E | M |
| 0F | SZ | 20 | 14.5 | 12 | M9*0.5 | 11 | 8 | 7 | 2.5 |
| 1F | SZ | 24 | 16.5 | 16 | M12*1.0 | 14 | 10 | 7 | 3.2 |

DZ receptacle

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



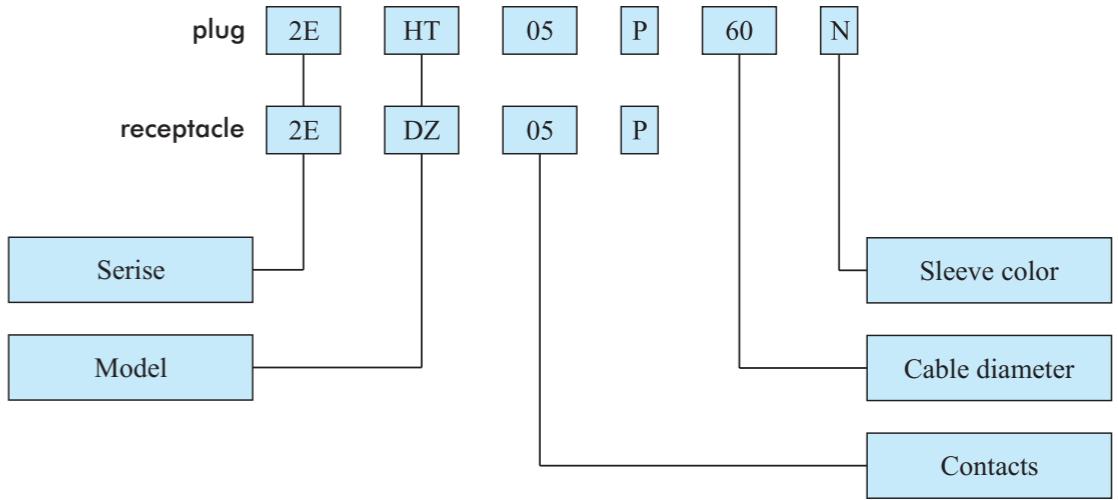
| Items | | Dimension | | | | | | | |
|--------|-------|-----------|------|------|---------|----|----|-----|---|
| Series | Style | L | N | A | e | S1 | S2 | S3 | E |
| 0F | DZ | 22.5 | 11 | 14.5 | M9*0.5 | 12 | 11 | 8.2 | 5 |
| 1F | DZ | 26 | 15.5 | 18 | M14*1.0 | 14 | 17 | 12 | 4 |

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 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 endurable and good insulating;
4. Sleeve molded with soft plastic to protect cables.
5. Waterproof gasket ring is made of high-temperature endurable silicone rubber.

2E series part numbering rules:**TT plug**

Super-short plug, collet locked, High-low insulator positioning avoid mismatching.



| Items | | Dimension | | | | | | | |
|--------|-------|-----------|----|----|---------|--|--|--|--|
| Series | Style | 30 | 22 | 14 | S1=11.0 | | | | |
| 2E | TT | | | | | | | | |

HT plug

Super-short plug, collet locked, High-low insulator positioning avoid mismatchin, vacuum sealed, over-mold for stern.



| Items | | Dimension | | | | | | | |
|--------|-------|-----------|-----|-----|------|--|--|--|--|
| Series | Style | ~33 | ~25 | ~16 | S1=9 | | | | |
| 2E | HT | | | | | | | | |

DZ receptacle

Short structure receptacle, thread fixed on the machine directly.



| Items | | Dimension | | | | | | | |
|--------|-------|-----------|------|-----|-----|------|----|--|--|
| Series | Style | 15.3 | 12.8 | 8.5 | 1.5 | 0.75 | 14 | | |
| 2E | DZ | | | | | | | | |

QZ receptacle

Short structure receptacle, flange fixed on the machine.

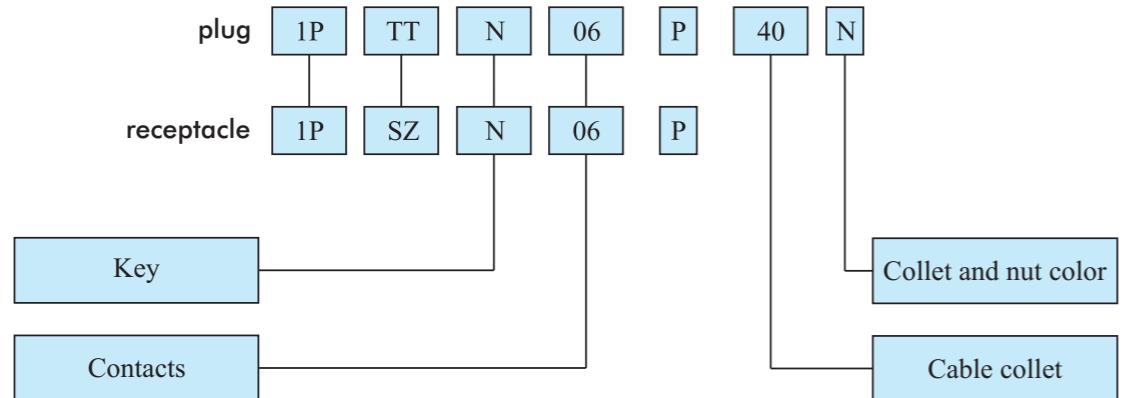


| Items | | Dimension | | | | | | | |
|--------|-------|-----------|-----|-----|----|------|----|--|--|
| Series | Style | 15.5 | 8.8 | 1.5 | 14 | 13.8 | 20 | | |
| 2E | DZ | | | | | | | | |

P Series connector with the following main features:

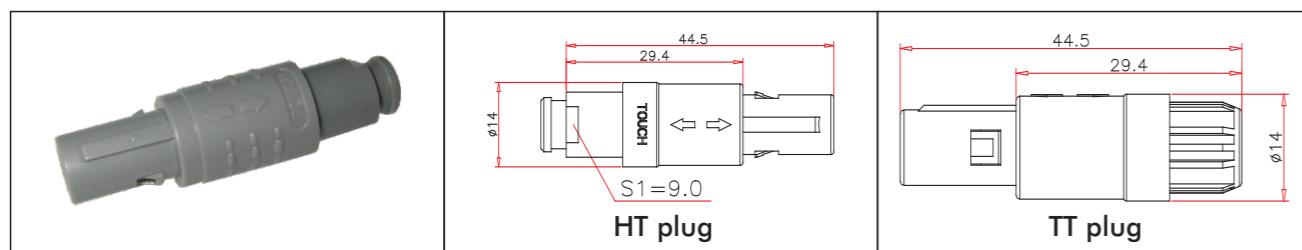
- 1) Smart push-pull self-latching system;
- 2) Multicore types 2 to 14 pins;
- 3) Solder or PCB contacts;
- 4) High packing density for space saving;
- 5) Collet nut and socket nut with the same color to avoid mismatching.

Numbering rules:



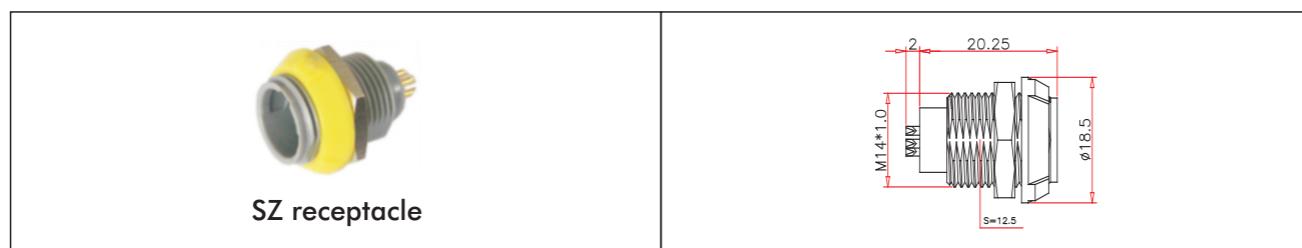
HT & TT plug

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



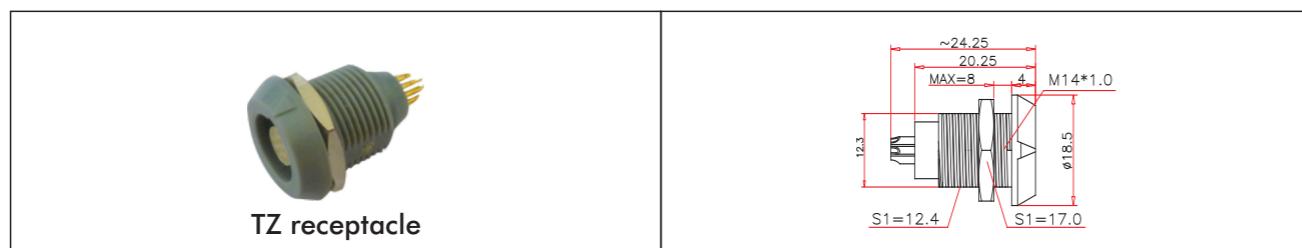
SZ receptacle

Fixed receptacle, fixed inside of case with nut.



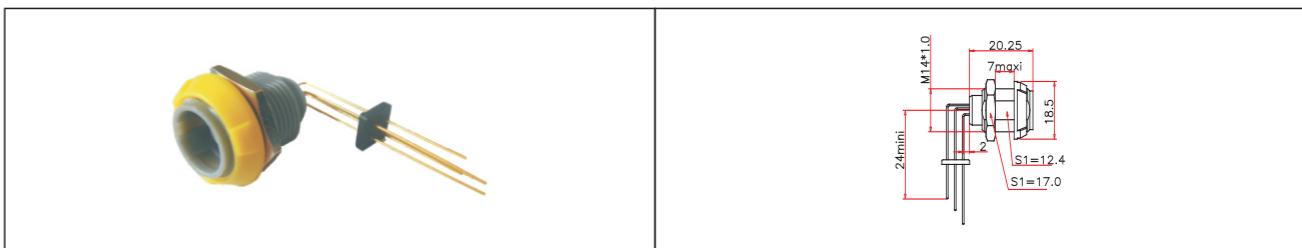
TZ receptacle

Fixed receptacle, fixed inside of case with nut.



SZ receptacle (elbow pin)

Fixed receptacle, fixed inside of case with nut.



Key

| Key of plug | Diagram | | | |
|-------------|---------|-----|-----|-----|
| | 0° | 40° | 60° | 80° |
| Key code | N | A | B | C |

Color of nut

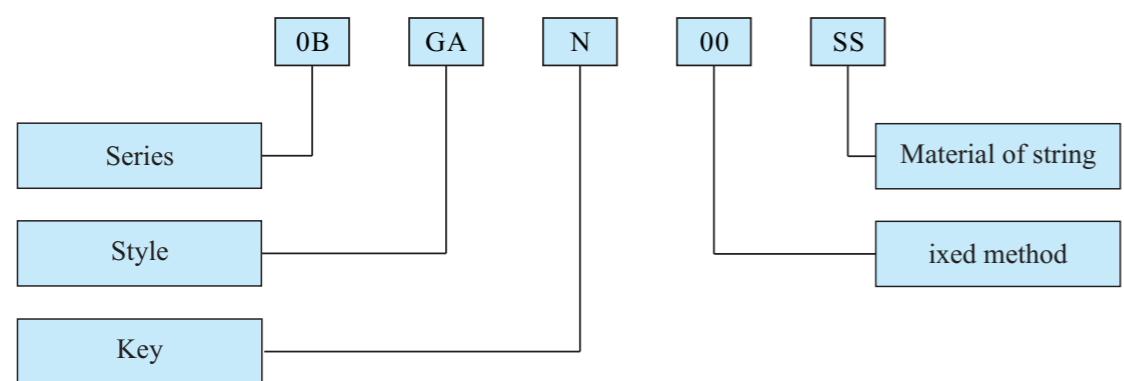
| Color | Blue | Gray | Yellow | Black | Red | Green |
|-------|------|------|--------|-------|-----|-------|
| Code | A | G | J | N | R | V |

Collet

| Collet code | Cable diameter |
|-------------|----------------|
| 42 | 2.2~4.0 |
| 52 | 5.0~4.0 |
| 62 | 6.0~5.0 |

Dust cap

Numbering rules:

**For example:**

0BMAN01SS: 0B plug dust cap, single key, O-ring, the string is stainless ring.

Fixed method:

(00: Key ring 01: O-ring 02: solder cash 03: Φ3.0 O-ring)

Material of string:

(SS: stainless ring PA: Nylon ring)

MA plug dust cap (assembled on the plug with key)

| Series | Dimension | | | |
|----------|-----------|------|----|--------------------------|
| | L | N | A | C B/C series S series |
| 0B-0C-0S | 65 | 17 | 10 | 8 7 |
| 1B-1C-1S | 75 | 17 | 12 | 10 9 |
| 2B-2C-2S | 80 | 18 | 15 | 13 12 |
| 3B-3C | 95 | 23 | 19 | 16 |
| 0K | 60 | 19 | 13 | 11 |
| 1K | 65 | 23.5 | 16 | 13 |
| 2K | 70 | 24 | 19 | 16 |
| 3K | 80 | 27 | 23 | 19 |

GA receptacle dust cap (assembled on receptacle or the board of case, no key)

| Series | Dimension | | | |
|--------|-----------|------|----|----|
| | L | N | A | C |
| 0B-0S | 80 | 17 | 10 | 9 |
| 1B-1S | 80 | 17 | 12 | 12 |
| 2B-2S | 80 | 14.5 | 18 | 15 |
| 3B-3S | 100 | 18 | 22 | 18 |

GB receptacle dust cap (assembled on the board of case, no key)

| Series | Dimension | | |
|--------|-----------|------|------|
| | L | N | A |
| 0K | 80 | 18 | 13 |
| 1K | 80 | 23.5 | 16 |
| 2K | 80 | 24.5 | 19 |
| 3K | 100 | 33 | 22.5 |

For insulator of B series & K series

| Series | 00 | | | | | |
|-------------------------|------|------|------|--|--|--|
| Pin array | | | | | | |
| Contacts | 2pin | 3pin | 4pin | | | |
| Diameter of contact(mm) | 0.5 | 0.5 | 0.5 | | | |
| Contact resistance(mΩ) | 10 | 10 | 10 | | | |
| Working currency(A) | 5 | 3 | 2 | | | |
| Test voltage(V) | 1000 | 800 | 800 | | | |
| Working voltage(V) | 330 | 260 | 260 | | | |

| Series | 0B-0K-0C | | | | | | |
|-------------------------|----------|------|------|------|------|------|------|
| Pin array | | | | | | | |
| Contacts | 2pin | 3pin | 4pin | 5pin | 6pin | 7pin | 9pin |
| 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 currency(A) | 10 | 8 | 7 | 6.5 | 2.5 | 2.5 | 2 |
| Test voltage(V) | 1300 | 1200 | 850 | 850 | 800 | 800 | 600 |
| Working voltage(V) | 430 | 400 | 280 | 280 | 260 | 260 | 200 |

| Series | 1B-1K-1C | | | | | |
|-------------------------|----------|------|------|------|------|------|
| Pin array | | | | | | |
| Contacts | 2pin | 3pin | 4pin | 5pin | 6pin | 7pin |
| 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 currency(A) | 15 | 12 | 10 | 9 | 7 | 7 |
| Test voltage(V) | 1500 | 1300 | 1300 | 1250 | 1050 | 950 |
| Working voltage(V) | 500 | 430 | 430 | 415 | 350 | 315 |

| Series | 1B-1K-1C | | | | |
|-------------------------|----------|-------|-------|-------|--|
| Pin array | | | | | |
| Contacts | 8pin | 10pin | 12pin | 14pin | |
| Diameter of contact(mm) | 0.7 | 0.5 | 0.5 | 0.5 | |
| Contact resistance(mΩ) | 7.5 | 10 | 10 | 10 | |
| Working currency(A) | 5 | 2.5 | 2 | 2 | |
| Test voltage(V) | 950 | 900 | 850 | 800 | |
| Working voltage(V) | 315 | 300 | 280 | 260 | |

| Series | 2B-2K-2C | | | | | |
|-------------------------|----------|------|------|------|------|------|
| Pin array | | | | | | |
| Contacts | 2pin | 3pin | 4pin | 5pin | 6pin | 8pin |
| 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 currency(A) | 30 | 17 | 15 | 14 | 12 | 10 |
| Test voltage(V) | 2100 | 2400 | 1850 | 1750 | 1350 | 1500 |
| Working voltage(V) | 700 | 800 | 610 | 580 | 450 | 500 |

For Insulator of S series

| Series | 0S | | | | | |
|--------------------------------------|------|--|------|--|------|--|
| Pin array plug (L) Receptacle (R) | | | | | | |
| Contacts | 2pin | | 3pin | | 4pin | |
| Diameter of contact (mm) | 0.9 | | 0.7 | | 0.7 | |
| Contact resistance (mΩ) | 6 | | 7.5 | | 7.5 | |
| Working currency (A) | 10 | | 7 | | 7 | |
| Test voltage (V) | 1500 | | 1000 | | 1000 | |
| Working voltage (V) | 500 | | 330 | | 330 | |

| Series | 2B-2K-2C | | | | | |
|-------------------------|----------|-------|-------|-------|-------|-------|
| Pin array | | | | | | |
| Contacts | 10pin | 12pin | 14pin | 16pin | 19pin | 26pin |
| 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 currency(A) | 8 | 7 | 6.5 | 6 | 5 | 2 |
| Test voltage(V) | 1450 | 1250 | 1150 | 950 | 850 | 950 |
| Working voltage(V) | 500 | 480 | 380 | 315 | 280 | 315 |

| Series | 1S | | | | | |
|--------------------------------------|------|--|------|--|------|--|
| Pin array plug (L) Receptacle (R) | | | | | | |
| Contacts | 2pin | | 3pin | | 4pin | |
| Diameter of contact (mm) | 1.3 | | 0.9 | | 0.9 | |
| Contact resistance (mΩ) | 5 | | 6 | | 6 | |
| Working currency (A) | 15 | | 10 | | 10 | |
| Test voltage (V) | 1200 | | 1200 | | 1200 | |
| Working voltage (V) | 400 | | 400 | | 400 | |

| Series | 3B-3K-3C | | | | | |
|-------------------------|----------|------|------|------|-------|-------|
| Pin array | | | | | | |
| Contacts | 3pin | 4pin | 5pin | 6pin | 10pin | 12pin |
| 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 currency(A) | 25 | 19 | 19 | 13 | 12 | 9 |
| Test voltage(V) | 1900 | 1450 | 1900 | 1650 | 1250 | 1250 |
| Working voltage(V) | 625 | 475 | 625 | 545 | 415 | 415 |

| Series | 0F | | | | | |
|--------------------------|--|------|------|------|------|------|
| Pin array | Single-key plug Single-key receptacle | | | | | |
| | Double-key plug Double-key receptacle | | | | | |
| Contacts | 2pin | 3pin | 4pin | 5pin | 6pin | 7pin |
| Diameter of contact (mm) | 0.9 | 0.9 | 0.7 | 0.7 | 0.5 | 0.5 |
| Contact resistance (mΩ) | 6 | 6 | 7.5 | 7.5 | 10 | 10 |
| Working currency (A) | 10 | 8 | 7 | 6.5 | 2.5 | 2.5 |
| Test voltage (V) | 1300 | 1200 | 850 | 850 | 800 | 600 |
| Working voltage (V) | 430 | 400 | 280 | 280 | 260 | 200 |

| Series | 3B-3K-3C | | | | | |
|-------------------------|----------|-------|-------|-------|-------|-------|
| Pin array | | | | | | |
| Contacts | 14pin | 16pin | 18pin | 21pin | 26pin | 30pin |
| 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 currency(A) | 9 | 8 | 7 | 6 | 4 | 3.5 |
| Test voltage(V) | 1200 | 1200 | 1200 | 1000 | 950 | 800 |
| Working voltage(V) | 395 | 395 | 395 | 330 | 315 | 265 |

| Series | | 1F | | | | | |
|--------------------------|--|------|------|------|------|------|--|
| Pin array | Single-key plug Single-key receptacle Double-key plug Double-key receptacle | | | | | | |
| Contacts | 2pin | 3pin | 4pin | 5pin | 6pin | 7pin | |
| 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 currency (A) | 15 | 12 | 10 | 9 | 7 | 7 | |
| Test voltage (V) | 1500 | 1300 | 1300 | 1250 | 1050 | 950 | |
| Working voltage (V) | 500 | 430 | 430 | 415 | 350 | 315 | |

| Series | | 1P | | | | | |
|--------------------------|------|------|------|-------|-------|--|--|
| Pin array | | | | | | | |
| Contacts | 7pin | 8pin | 9pin | 10pin | 14pin | | |
| 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 currency (A) | 6 | 5 | 3 | 3 | 3 | | |
| Test voltage (V) | 1000 | 875 | 600 | 600 | 600 | | |
| Working voltage (V) | 450 | 400 | 333 | 333 | 333 | | |

Dimension of PCB holes for B Series, K Series, SZ straight receptacle, PZ receptacle, MZ receptacle.

| Series | | 1B-1K-1C | | | | | |
|--------------------------|--|----------|-------|-------|--|--|--|
| Pin array | Single-key plug Single-key receptacle Double-key plug Double-key receptacle | | | | | | |
| Contacts | 8pin | 10pin | 12pin | 14pin | | | |
| Diameter of contact (mm) | 0.7 | 0.5 | 0.5 | 0.5 | | | |
| Contact resistance (mΩ) | 7.5 | 10 | 10 | 10 | | | |
| Working currency (A) | 5 | 2.5 | 2 | 2 | | | |
| Test voltage (V) | 950 | 900 | 850 | 800 | | | |
| Working voltage (V) | 315 | 300 | 280 | 260 | | | |

| Series | | 2E | | | | | | |
|--------------------------|--------------------|------|------|------|------|-------|-------|--|
| Pin array | Plug Receptacle | | | | | | | |
| Contacts | 2pin | 3pin | 4pin | 6pin | 8pin | 10pin | 12pin | |
| Diameter of contact (mm) | 1.6 | 1.3 | 1.3 | 1.3 | 0.7 | 0.7 | 0.7 | |
| Contact resistance (mΩ) | 4 | 5 | 5 | 5 | 7.5 | 7.5 | 7.5 | |
| Working currency (A) | 20 | 15 | 15 | 12 | 7 | 7 | 5 | |
| Test voltage (V) | 1800 | 1500 | 1800 | 1500 | 950 | 950 | 600 | |
| Working voltage (V) | 600 | 500 | 600 | 500 | 315 | 315 | 200 | |

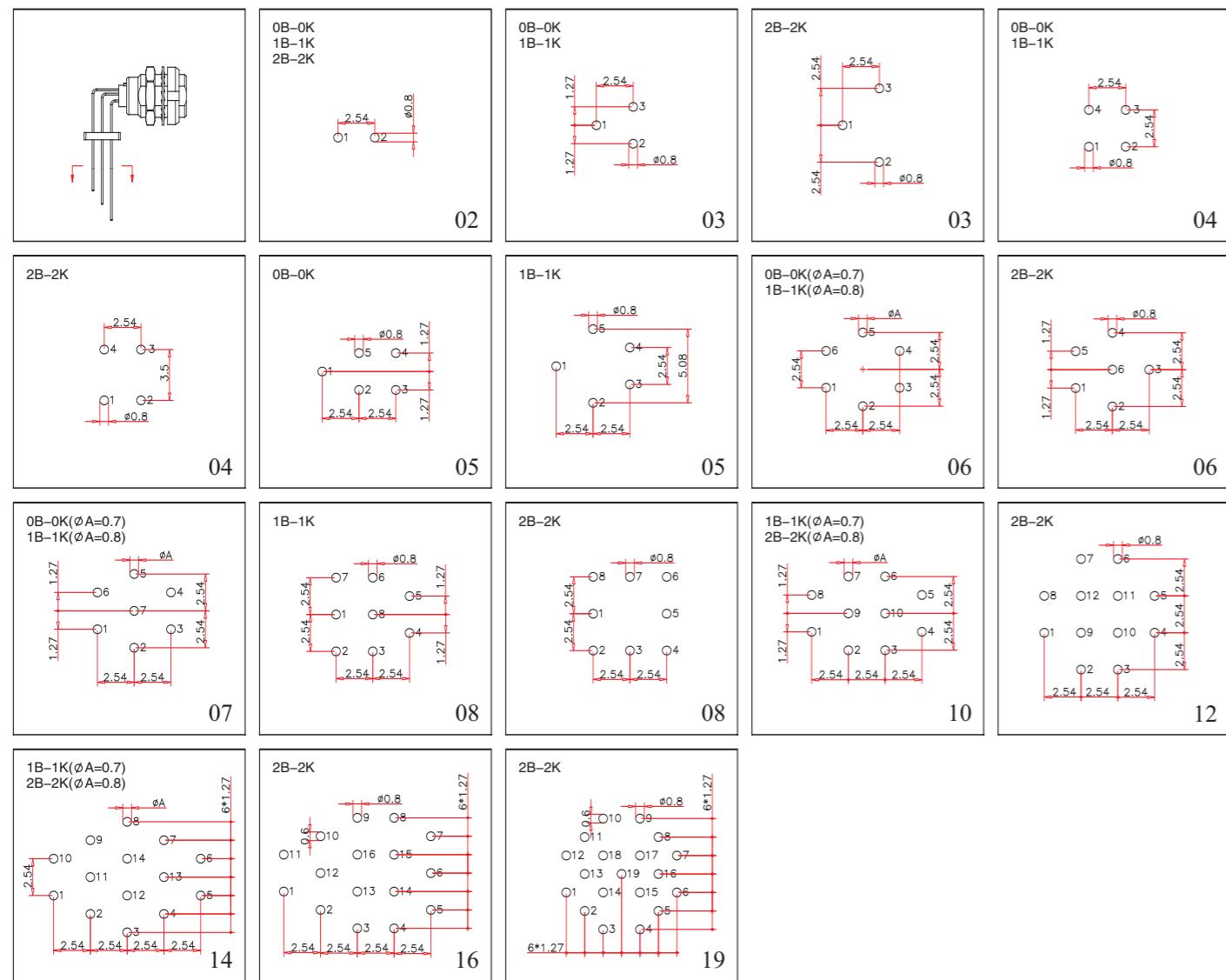
| Series | | 1P | | | | | |
|--------------------------|------|------|------|------|------|--|--|
| Pin array | | | | | | | |
| Contacts | 2pin | 3pin | 4pin | 5pin | 6pin | | |
| Diameter of contact (mm) | 1.3 | 1.3 | 0.9 | 0.9 | 0.7 | | |
| Contact resistance (mΩ) | 5 | 5 | 6 | 6 | 7.5 | | |
| Working currency (A) | 10 | 10 | 8 | 8 | 6 | | |
| Test voltage (V) | 1250 | 1250 | 1250 | 1100 | 1000 | | |
| Working voltage (V) | 500 | 500 | 500 | 500 | 450 | | |

| Contacts | Type | 0B,0K | 1B,1K | 2B,2K | Contacts | Type | 0B,0K | 1B,1K | 2B,2K |
|----------|------|-------|-------|-------|----------|------|-------|-------|-------|
| | 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 | 3.4 | 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 | 0.7 | | |
| | D | | | 6.4 | | D | 3.2 | | |
| | A | | | 0.8 | | A | | | 0.8 |
| | H | | | 1.4 | | H | | | 2.8 |
| | D | | 3.95 | 6.20 | | D | | | 6.5 |
| | A | | | 0.6 | | A | | | 0.8 |
| | H | | | 1.8 | | H | | | 3.10 |
| | D | | 4.4 | 6.5 | | D | | | 6.60 |
| | A | | | 0.8 | | A | | | 0.6 |
| | H | | | 3.50 | | H | | | 4.2 |
| | D | | | 6.7 | | D | | | 7 |
| | C | | | | | C | | | 1.6 |

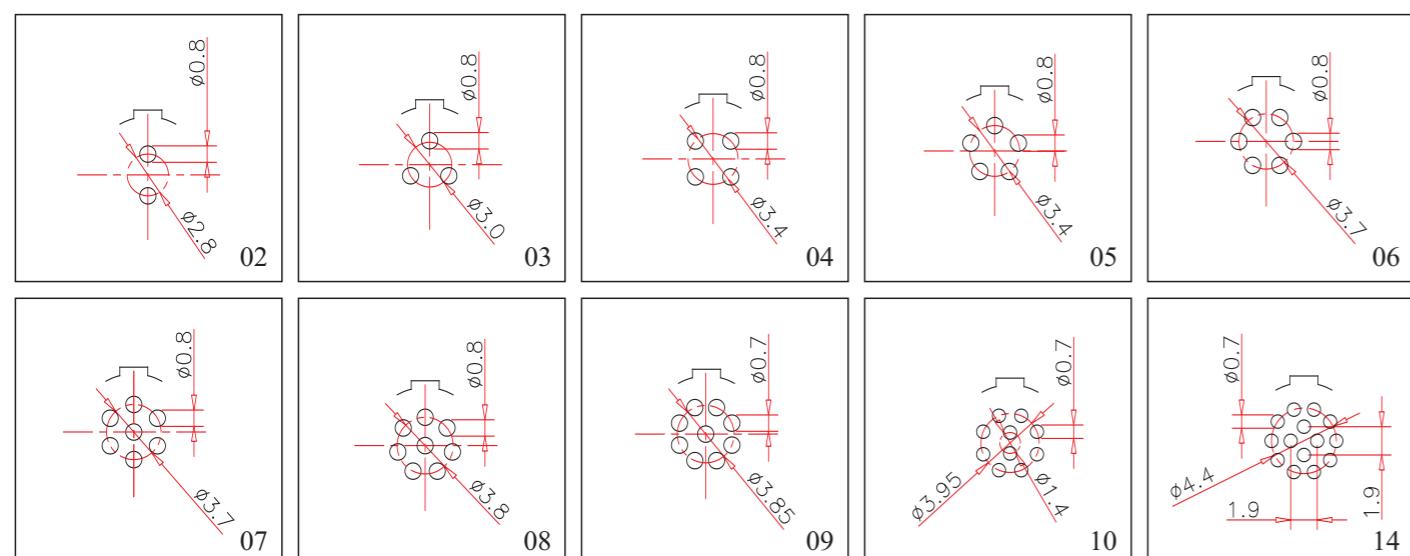
Dimension of PCB holes for S Series, SZ straight receptacle, PZ receptacle.

| Contacts | Type | 0S | 1S | Contacts | Type | 0S | 1S | Contacts | Type | 0S | 1S |
|----------|------|-----|-----|----------|------|-----|-----|----------|------|-----|-----|
| | A | 0.8 | 0.8 | | A | 0.8 | 0.8 | | A | 0.8 | 0.8 |
| | D | 2.2 | 3.0 | | D | 2.8 | 3.5 | | D | | 3.5 |
| | A | 0.8 | 0.8 | | A | | 0.8 | | A | | |
| | D | 2.8 | 3.5 | | D | | 3.5 | | D | | |

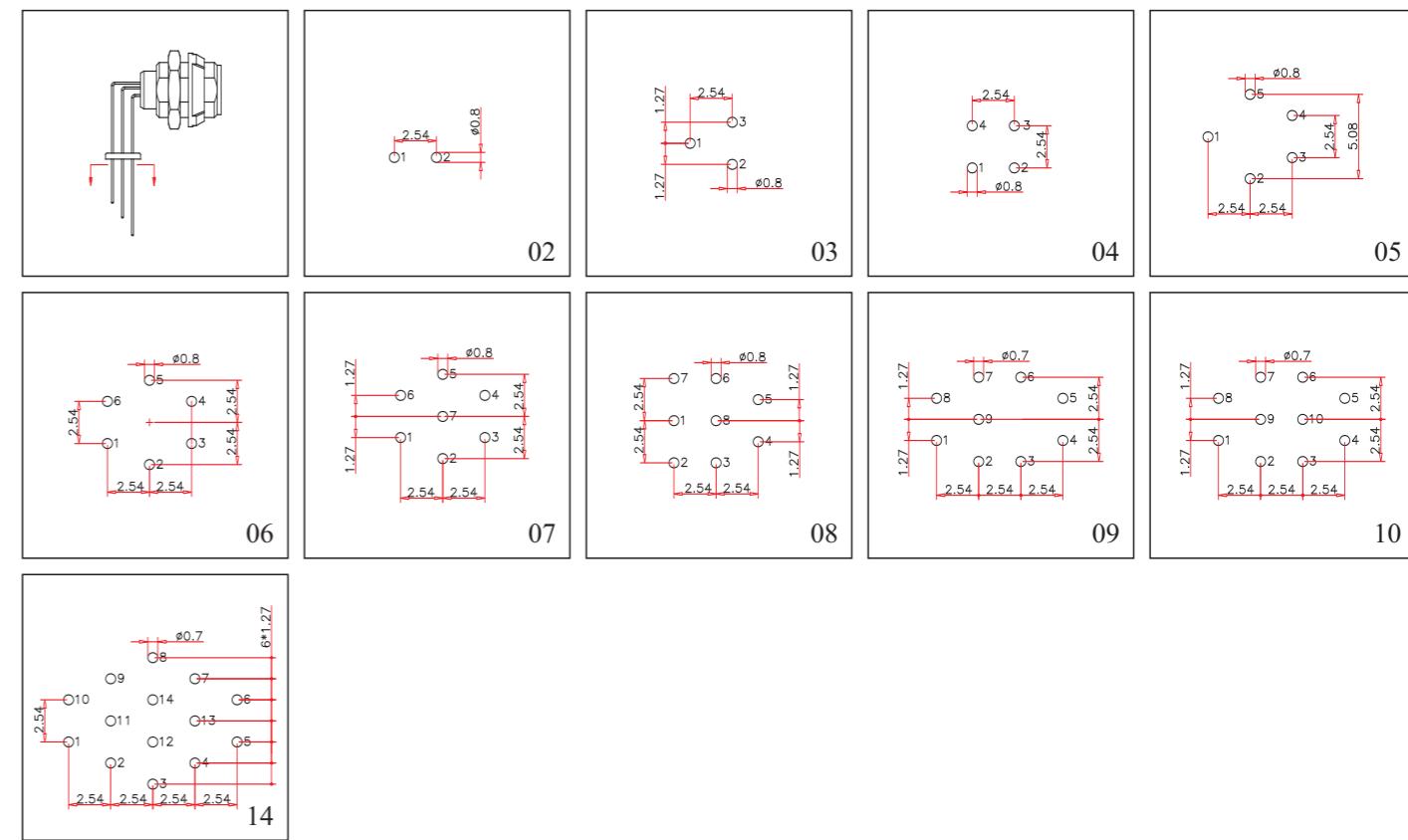
Dimension of PCB holes for B Series, K Series, SZ straight receptacle, PZ receptacle, MZ receptacle Elbow (90 degree).

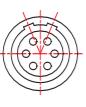
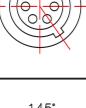


Dimension of PCB holes for 1P receptacle.



Dimension of PCB holes for 1P receptacle elbow (90 degree)



| Key | Drawing (front side review) | Series | | | | | | | |
|-----|---|--------|----|----|----|----|----|----|----|
| | | 00 | 0B | 1B | 2B | 3B | 0K | 1K | 2K |
| N |  | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| A |  | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| B |  | | | | ◆ | ◆ | ◆ | ◆ | ◆ |
| |  | | ◆ | ◆ | | | | | |
| C |  | | | | ◆ | ◆ | ◆ | ◆ | ◆ |
| |  | | ◆ | ◆ | | | | | |
| D |  | | | | ◆ | ◆ | ◆ | ◆ | ◆ |
| |  | | ◆ | ◆ | | | | | |
| E |  | | | | ◆ | ◆ | ◆ | ◆ | ◆ |
| |  | | ◆ | ◆ | | | | | |
| F |  | | | | ◆ | ◆ | ◆ | ◆ | ◆ |

| Key | Drawing (front side review) | Series | | | | | | | |
|-----|---|--------|----|----|----|----|----|----|----|
| | | 00 | 0B | 1B | 2B | 3B | 0K | 1K | 2K |
| F |  | | ◆ | ◆ | | | | | |
| I |  | | | ● | | | | | |
| J |  | | | | ◆ | ◆ | | | |
| |  | | ● | ● | | | | | |
| K |  | | | | ◆ | ◆ | | | |
| |  | | ● | ● | | | | | |
| L |  | | | | ● | ● | | | |
| |  | | | | | | ● | ● | ● |
| M |  | | | | ◆ | | | | |
| |  | | ● | ● | ● | ● | ● | ● | ● |
| X | | | ● | ● | ● | ● | ● | ● | ● |

Cable collect

| | Collet code | Cable Φ(mm) | 0S | | 1S | | |
|--------------|-------------|-------------|----|----|----|----|----|
| | | | | | | | |
| For S Series | 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 | | | ● | | |
| For B Series | Collet code | Cable Φ(mm) | 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 | | | | ● | ● |
| For K Series | Collet code | Cable Φ(mm) | 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 | | | ● | | |
| For K Series | 85 | 8.1-8.5 | | | ● | | |

Panel hole dimension

| | 00 | 0B | 1B | 2B | 3B | 0K | 1K | 2K | 0S | 1S |
|---|-----|------|------|------|------|------|------|-----|------|----|
| A | 8.3 | 10.6 | 13.6 | 16.6 | 12.6 | 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 Φ(mm) | 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 and High-voltage connector

| | |
|---------------------|---|
| Shell | 2B |
| Contact diameter | 0.9 mm |
| Bucket diameter | 0.85mm |
| Test voltage | 6000V |
| Working voltage | < 2500V |
| Dimension | Refer 2B series HT plug and TZ receptacle. |
| Contact type | Solder PCB |
| Special requirement | Using epoxy resin to seal the solder area, after soldering the plug and receptacle. |



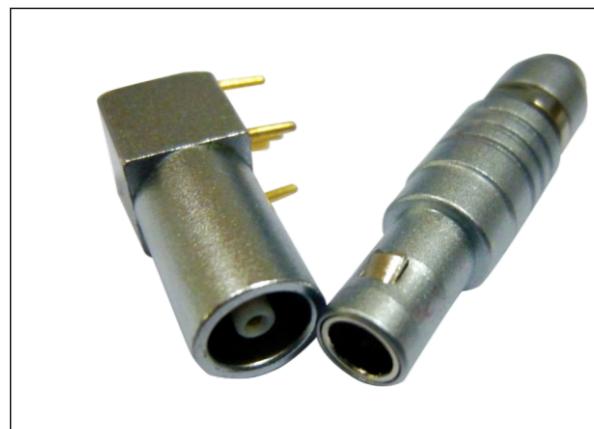
| | |
|---------------------|---|
| Shell | 1S |
| Contact diameter | 1.6 mm |
| Bucket diameter | 1.5 mm |
| Test voltage | 1000V |
| Working voltage | 12A |
| Dimension | Refer 1S series, HT plug and TZ, HZ receptacle |
| Contact type | Solder |
| Special requirement | Using epoxy resin to seal the solder area, after soldering the plug and receptacle. |

Unipole 120 connector

| | |
|---------------------|---|
| Shell | 1S 2S 2B |
| Contact diameter | 2.0 mm |
| Bucket diameter | 1.8 mm |
| Test voltage | 1000V |
| Working voltage | 15A |
| Dimension | Refer 1S,2S,2B series, TT plug and TZ receptacle |
| Contact type | solder |
| Special requirement | Using epoxy resin to seal the solder area, after soldering the plug and receptacle. |

Unipole 275 connector

| | |
|---------------------|---|
| Shell | 1S |
| Contact diameter | 1.3 mm |
| Bucket diameter | 1.0 mm |
| Test voltage | 800V |
| Working voltage | 10A |
| Dimension | Refer 1S series TT, HT plug and TZ, HZ receptacle |
| Contact type | Solder |
| Special requirement | Using epoxy resin to seal the solder area, after soldering the plug and receptacle. |

Unipole 250 connector

| | |
|---------------------|---|
| Shell | 00B |
| Contact diameter | 0.7 mm |
| Bucket diameter | 1.0 mm |
| Test voltage | 1800V |
| Working voltage | 4A |
| Dimension | Refer 00B series, TT plug and NZ receptacle |
| Contact type | Solder |
| Special requirement | Using epoxy resin to seal the solder area, after soldering the plug and receptacle. |

1P series air channel connector

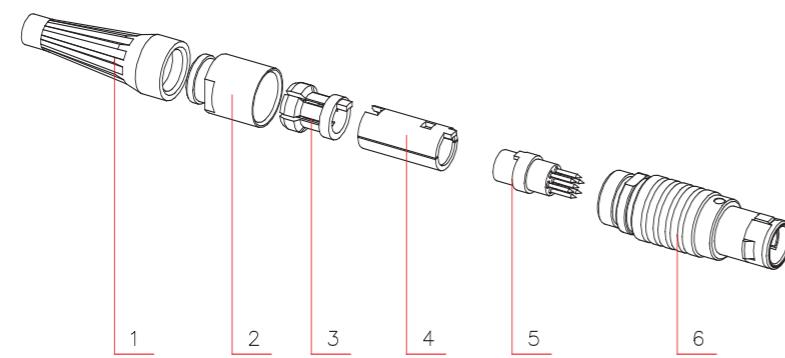
| | |
|---------------------|---|
| Shell | 1P |
| Contact diameter | 3.5-4.0 mm |
| Bucket diameter | 6.0 mm |
| Gas pressure | < 400 mm Hg |
| Leaking | <3mmHg/min @400 mmHg |
| Dimension | Refer 1P series, TT plug, and SZ, TZ receptacle |
| Contact type | NA |
| Special requirement | |

0B series air channel connector

| | |
|---------------------|--|
| Shell | 0B |
| Contact diameter | 4.0 mm |
| Bucket diameter | 6.0 mm |
| Gas pressure | < 400\mm Hg |
| Leaking | < 3mm Hg/min @400 mmHg |
| Dimension | Refer 0B series, TT plug and TZ receptacle |
| Contact type | NA |
| Special requirement | |

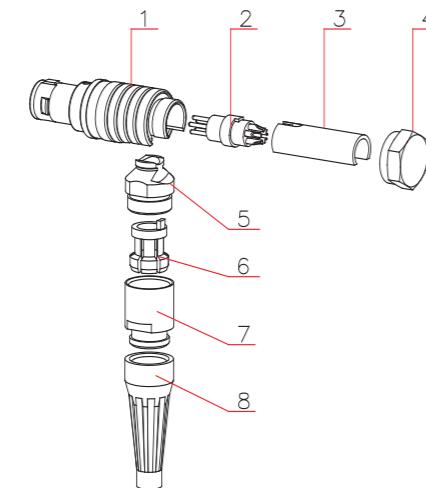
Assembly method

Plug of B Series connectors



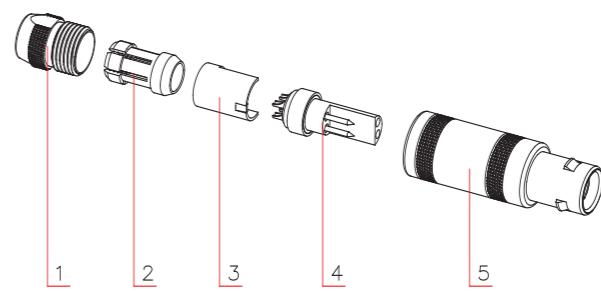
1. Get the cable through sleeve①, nut②, and collet③ in order , then solder wires to cup of pins with insulator ⑤.
2. Put the split insert carrier④ onto the insulator ⑤ after soldering, assure the slot of split insert carrier④ mate with dimple of insulator⑤.
3. Put the collet③ on the right position of cable, make sure the dimple of collet ③ mate with the slot of split insertcarrier④.
4. Push the insulator⑤, split insert carrier④, cable collet③ into the outside shell in order. Make sure the dimple of split insert carrier④ mate with the slot of outer shell.
5. Screw the collet nut② into the outer shell⑥.
6. Hitch the sleeve① onto the corresponding step of collet nut.②

Elbow of B series connector



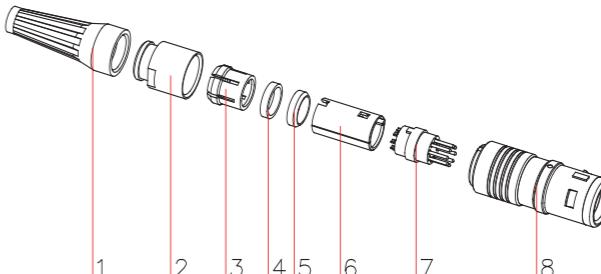
1. Get the cable through sleeve, nut, collet, adapter⑤ in order , then solder wires to cup of pins with insulator②.
2. Put the split insert carrier③ onto the insulator② after soldering, assure the slot of split insert carrier③ mate with dimple of insulator②.
3. Push the insert carrier③, insulator② and adapter into the outside shell① , make sure adapter⑤ is fit for the slot of insulator②.
4. Put the collet on the right position of cable, assemble collet⑥ to adapter, make sure the dimple of collet ③ mate with the slot of adapter⑤, and collet⑥ should hold the jacket of cable
5. Screw the collet nut⑦ into the adapter⑤.
6. Screw the cap④ into outer shell.
7. Hitch the sleeve⑧ onto the corresponding step of collet nut⑦.

Plug of S series connector



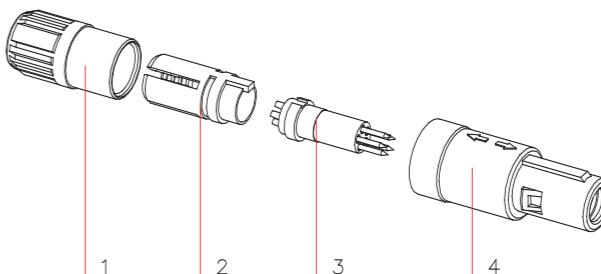
1. Get the cable through nut①, collet②, and split insert carrier in order , then solder wires to cup of pins with insulator④.
2. Assemble insert carrier③ to the insulator④, make sure the dimple of insert carrier③ mate with slot of insulator④. Also put collet② to the right position of cable.
3. Push collet②, insert carrier③ and insulator④ to the outer shell⑤.
4. Screw the nut① into the outer shell.

Plug of K series connector



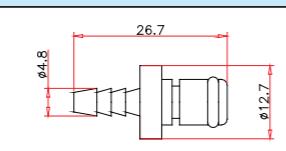
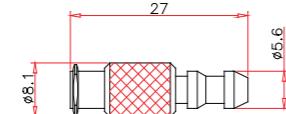
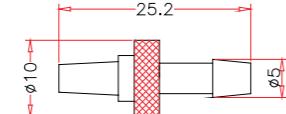
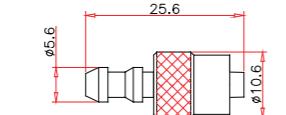
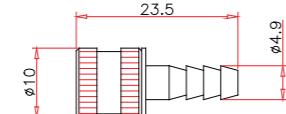
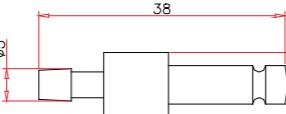
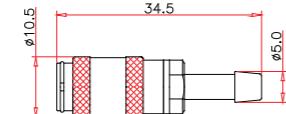
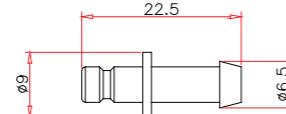
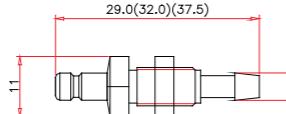
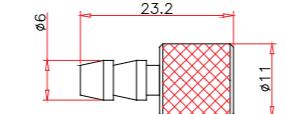
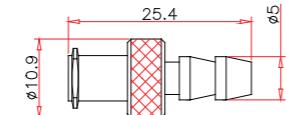
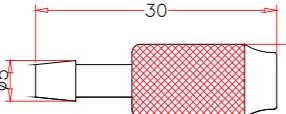
1. Get the cable through sleeve①, nut②, collet③, o-ring④, and washer⑤ in order, then solder wires to cup of pins with insulator⑦.
2. Assemble insert carrier⑥ to insulator⑦ , make sure slot of insert carrier⑥ mate with dimple of insulator⑦ . Push washer⑤, o-ring④, collet③ to the right position, make sure the wash⑥ cover jacket of cable.
3. Insert insulator⑦ into the outer shell⑧, make sure the slot of insert carrier⑥ mate with dimple of outer shell⑧
4. Screw nut② into outer shell⑧.
5. Assemble sleeve① on the nut②.

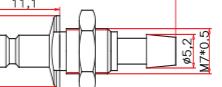
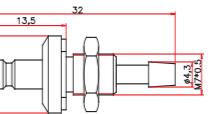
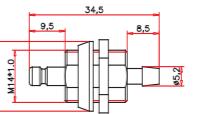
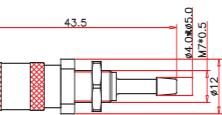
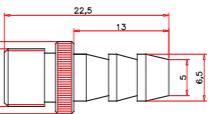
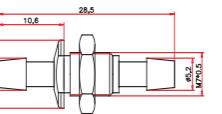
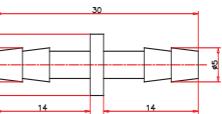
Plug of P series connector



1. Get the cable through nut①, collet② in order, then solder wires on the cup of pins with insulator③.
2. Put collet② on the insulator③, after soldering, make sure the dimple of collet mate with slot② of insulator③.
3. Put insulator③ into outer shell④, make sure the dimple of collet② mate with the slot of outer shell④.
4. Screw nut① into outer shell 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 | Mate with Bp14 |
| 6 | BP11 |  |  | Lock with groove, seal on the top | |
| 7 | BP15 |  |  | Lock with groove, seal with o-ring | Mate with BP-12, BP-13 |
| 8 | BP12 |  |  | Lock with groove, seal with o-ring | Mate with Bp15, BP15-S |
| 9 | BP13 |  |  | Lock with groove, seal with o-ring | Mate with Bp15, BP15-S |
| 10 | BP31 |  |  | Lock and seal with conicity | Mate with BP32 |
| 11 | BP32 |  |  | Lock and seal with conicity | Mate with BP31 |
| 12 | BPN |  |  | Lock and seal with conicity | Mate with BP05 |

| Serial No. | Item | Diagram | Dimension | Structure principle | Remark |
|------------|---------|---|---|------------------------------------|------------------------|
| 13 | BP15-11 |  |  | Lock with groove, seal with o-ring | Mate with Bp15, BP15-S |
| 14 | BP15-16 |  |  | Lock with groove, seal with o-ring | Mate with Bp15, BP15-S |
| 15 | BP15-17 |  |  | Lock with groove, seal with o-ring | Mate with Bp15, BP15-S |
| 16 | BP15-S |  |  | Lock with groove, seal with o-ring | Mate with BP-12, BP-13 |
| 17 | BP14 |  |  | Lock with groove, seal with o-ring | Mate with BP10 |
| 18 | BP16 |  |  | Nut fixed, Two plug structure | |
| 19 | BP2M-T |  |  | Two plug structure | |

Solder and Assemble cable



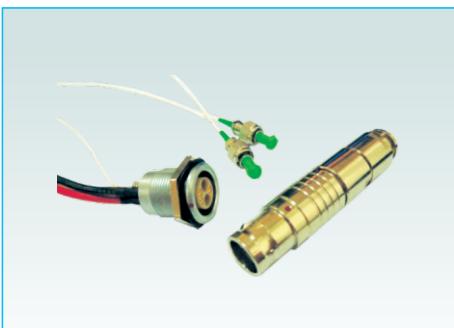
2BHTN16-Spring Cable



1PHTN05- Medical Cable



1BHTN05-1BHTN05



Optical-electrical Connector



1PHTN04- Medical Cable



0FHTN04 audio adapter



0BHTN06-TAP



0BHTN07-1BWPN07



0BHTN02-9V



1BHTN10-Medical Cable



0BHT-12V adapter



Grounding Cable-Grounding column



0BHTN04-USB



1SHT04P-1SHZN04P



3BHTN21P

Memo

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