

# Connector Selection Guide







- Touch Technology(Shenzhen)Co., Ltd. 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 are compatible 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.







Please choose your best connection solution according to the four steps as follows:

| First Step   | Low Voltage<br>( <3KV )  | High Voltage<br>( >3KV )   | Current<br>( <10A )   | Current<br>( >10A )   | Coaxial<br>Connector  | BP<br>Connector   |
|--|--|--|---|---|---|---|
| <b>Second Step</b><br>Basic configuration requirements | <ul style="list-style-type: none"> <li>·Diameter of Cable</li> <li>·Pins</li> <li>·AWG</li> <li>·Metal or Plastic</li> <li>·Contact type ( Solder or PCB )</li> </ul>  | <ul style="list-style-type: none"> <li>·Diameter of Cable</li> <li>·Test Voltage</li> <li>·Pins</li> <li>·Grounding requirement</li> <li>·Contact type ( Solder or PCB )</li> </ul>  | <ul style="list-style-type: none"> <li>·AWG</li> <li>·Diameter of Cable</li> <li>·Pins</li> <li>·Metal or Plastic</li> <li>·Contact type ( Solder or PCB )</li> </ul>   | <ul style="list-style-type: none"> <li>·Diameter of Cable</li> <li>·Test Voltage</li> <li>·Pins</li> <li>·Resistance</li> <li>·Metal or Plastic</li> <li>·Contact type ( Solder or PCB )</li> </ul>   | <ul style="list-style-type: none"> <li>·AWG</li> <li>·Diameter of Cable</li> <li>·Resistance</li> <li>·Max working frequency</li> </ul>   | <ul style="list-style-type: none"> <li>·Fluidic</li> <li>·Sealed</li> </ul>   |
| <b>Third Step</b><br>Indoor                            | 00, B, S, 2E   | S  | 00, B, S, 2E  | B, C, S   | 00, S   | BP01, BP04, BP05, BP07, BP10, BP11, BP15, BP12, BP13, BP31, BP32, BPN.  |
| Plastic  | P  | P  |   |   |   |   |
| Outdoor  | K, C, F  |  | K, C, F   | K   |   |   |
| <b>Fourth Step</b><br>Basic configuration requirements | <ul style="list-style-type: none"> <li>·Keying Pattern</li> <li>·Max Size (length, diameter)</li> <li>·Environmental Conditions (Harsh, EMC, Vibration)</li> <li>·Type of Plug ( Straight, Elbow, Fixed...)</li> <li>·Type of Socket ( Free, Fixed, PCB Fixed...)</li> <li>·Vacuum Sealed</li> </ul> | <ul style="list-style-type: none"> <li>·Diameter of AWG and Insulating Layer</li> <li>·Max Size (length, diameter)</li> <li>·Max Working Voltage</li> <li>·Type of Plug (Straight)</li> <li>·Type of Socket (Free, Fixed, PCB Fixed...)</li> <li>·Vacuum Sealed</li> </ul> | <ul style="list-style-type: none"> <li>·Max Size (length, diameter)</li> <li>·Shield Effective</li> <li>·Type of Plug ( Straight, Elbow, Panel Fixed...)</li> <li>·Type of Socket ( Free, Fixed, PCB Fixed...)</li> <li>·Vacuum Sealed</li> </ul> | <ul style="list-style-type: none"> <li>·Max Size (length, diameter)</li> <li>·Shield Effective</li> <li>·Type of Plug ( Straight, Elbow, Panel Fixed...)</li> <li>·Type of Socket ( Free, Fixed, PCB Fixed...)</li> <li>·Vacuum Sealed</li> </ul> | <ul style="list-style-type: none"> <li>·Max Size (length, diameter)</li> <li>·Shield Effective</li> <li>·Type of Plug ( Straight, Elbow, Panel Fixed...)</li> <li>·Type of Socket ( Free, Fixed, PCB Fixed...)</li> <li>·Vacuum Sealed</li> </ul> | <ul style="list-style-type: none"> <li>·Sealed Effective</li> <li>·Diameter of Shell</li> <li>·Diameter of Inner shell</li> </ul> |

For Furthur Require, Please Contact Touch Staff.

|                      | B Series  |                  | S Series  |        | K Series  |               | 2E Series  |        |
|----------------------|---|------------------|---|--------|---|---------------|--|--------|
|                      |   |                  |   |        |    |               |    |        |
| <b>Description</b>   | Standard Multicore self-latching connector, keying system for connector alignment.  |                  | Half-moon Insulator (Multicore)   |        | Watertight connector, keying system for connector alignment, Rugged housing for extreme environment.  |               | Short type connector, Half-moon Insulator  |        |
| <b>Main Features</b> | <ul style="list-style-type: none"> <li>·Security of the push-pull self-latching system</li> <li>·Multicore type with 2 to 26 pins</li> <li>·Solder or PCB contacts(Straight or elbow)</li> <li>·High-density installation for space savings</li> <li>·Multiple key options to avoid cross mating of similar connectors</li> <li>·360 degree screening for full EMC shielding</li> </ul> |                  | <ul style="list-style-type: none"> <li>·Security of the push-pull Self-latching system</li> <li>·Multicore type with 2-6 pins</li> <li>·Solder or PCB contacts(straight and elbow)</li> <li>·High-density installation for saving space</li> <li>· Half-moon insulator positioning avoid mismatching</li> <li>·360 degree screening for full EMC shielding</li> </ul> |        | <ul style="list-style-type: none"> <li>· Smart push-pull self-latching system</li> <li>· Multicore types with 2 to 26 pins</li> <li>· Solder or PCB contacts(straight and elbow)</li> <li>· High-density installation for saving space</li> <li>· Multiple key options to avoid mismatching</li> <li>· 360 degree screening for full EMC shielding</li> <li>·Waterproof connector (IP66-68)</li> <li>· Rugged housing for extreme working conditions</li> </ul> |               | <ul style="list-style-type: none"> <li>· Security of the push-pull self-latching system</li> <li>· Multicore type with 2 to 12 pins</li> <li>· Short type connectors with high density installation for saving space</li> <li>· Half-moon insulator positioning avoid mismatching</li> <li>· 360 degree screening for full EMC protection</li> </ul> |        |
| <b>Outshell Type</b> | Plug  | Socket           | Plug  | Socket | Plug  | Socket        | Plug   | Socket |
|                      | Straight  | Free             | Straight  | Free   | Straight  | Floating      | Straight   | Fixed  |
|                      | Elbow   | Fixed            | Fixed   | Fixed  | Elbow   | Fixed         |  |        |
|                      | Fixed   | Elbow            |   |        | Fixed   | Vacuum Sealed |  |        |
|                      |   | PCB Fixed        |   |        |   |               |  |        |
|                      |   | Rear Panel Fixed |   |        |   |               |  |        |
|                      |   | Vacuum Sealed    |   |        |   |               |  |        |

|               | C Series   | F Series   | P Series   | BP Connector   |
|---------------|--|--|--|--|
|               |    |    |   |    |
| Description   | Standard Multicore Type, Keying system for connector alignment   | Standard Multicore Type- Keying system for Connector alignment   | Standard Multicore Type- Keying system for Connector alignment   | Widely used in medical apparatus and instruments   |
| Main Features | <ul style="list-style-type: none"> <li>• security of the push-pull self-latching system;</li> <li>• multi-core type with 2 to 21 pins;</li> <li>• solder and PCB contacts(straight and elbow);</li> <li>• high-density installation for saving space;</li> <li>• 360-degree screening for full EMC protection;</li> <li>• receptacle is vacuum sealed, suitable for equipments demand obturation.</li> <li>• Different kinds of keying options to avoid mismatching</li> </ul> | <ul style="list-style-type: none"> <li>• security of the push-pull self-latching system;</li> <li>• multi-core type with 2 to 21 pins;</li> <li>• solder and PCB contacts(straight and elbow);</li> <li>• high-density installation for saving space;</li> <li>• 360-degree screening for full EMC protection;</li> <li>• receptacle is vacuum sealed, suitable for equipments demand obturation</li> <li>• Different kinds of keying options to avoid mismatching.</li> </ul> | <ul style="list-style-type: none"> <li>• Smart push-pull self-latching system;</li> <li>• Multicore types 2 to 14 pins;</li> <li>• Solder or PCB contacts(straight and elbow);</li> <li>• High packing density for space saving;</li> <li>• Collet nut and socket nut with the same color to avoid mismatching.</li> </ul> | <ul style="list-style-type: none"> <li>• Ambient Temperature : - 30℃ ~+60℃</li> <li>• Leakage Rate : ≤4mmHg/min (0.5Kpa/min) when the pressure difference is 400mmHg.</li> <li>• Life: push on/off 1000 times</li> </ul> |
| Outshell Type | Plug            Socket<br>Straight        Fixed  | Plug            Socket<br>Straight        Fixed  | Plug            Socket<br>Straight        Fixed<br>PCB Fixed   |  |

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