



**S.T. INDUSTRIAL (ASIA) LIMITED**

# **Battery Connector**

**Prepare by: Technician  
Engineer  
Date: 15-Oct-2022**

**Research and innovation are the driving force for the continuous growth of “S.T.". The R&D department is responsible for planning and implementing the company product development strategy, including the research and development of new products, and actively cultivating and strengthening the technical efficiency of product development. Connectors are a component that electronic engineers often come into contact with. The form and structure of connectors are everchanging. With different application objects, frequencies, power, and application environments, there are various types of connectors. Connectors are not limited to current, connectors are also used in signal paths, and their functions are the same as circuit connectors.**



## **Widely used in:**

**\*medical equipment**

**\*Smart home**

**\*Bluetooth earphone**

**\*VR virtual navigation**

**\*digital camera**

**\*Smart sports watch**

**\*Smart electronic door lock**

**\* Application equipment such as game consoles.**

**\*Cover multiple battery connectors**



**The battery connector adopts a variety of different directions and PCB installation methods, such as positive pressure type, side pressure type, sinker type, ejector pin type, the pitchsize is 2.5 to 6.0mm, the number of terminals is 2p to 12pin, and the rated current is up to 20A.**



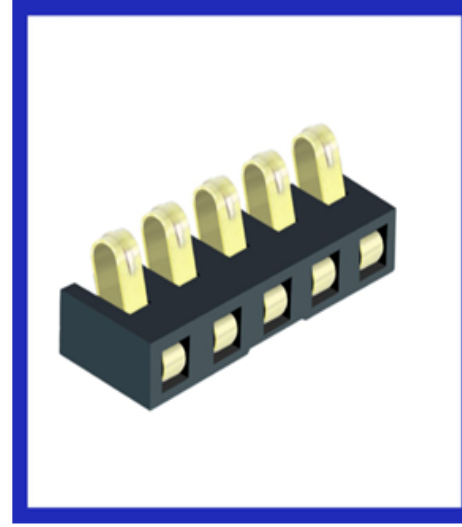
## Technical parameter:

1. Rated current: DC 12V 2A-3A
  2. Contact resistance:  $\leq 100\text{m}\Omega$
  3. Insulation resistance: AC500V for 1 minute
  4. Operating temperature:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
  5. Solder resistance temperature:  $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$
  6. Life Cycle: 5,000 time 30,000 times
- Operating temperature range:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Nickel-plated gold-plated socket area, pure tin SMT solder tails

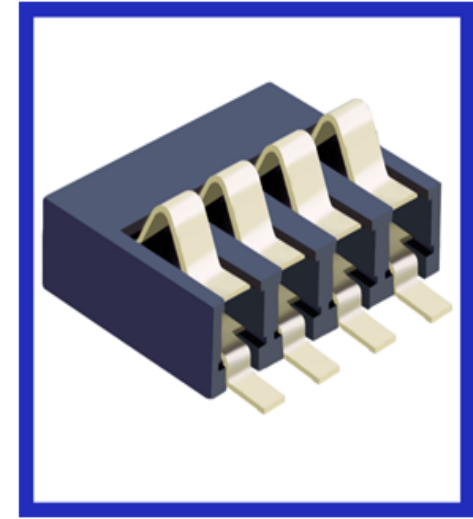




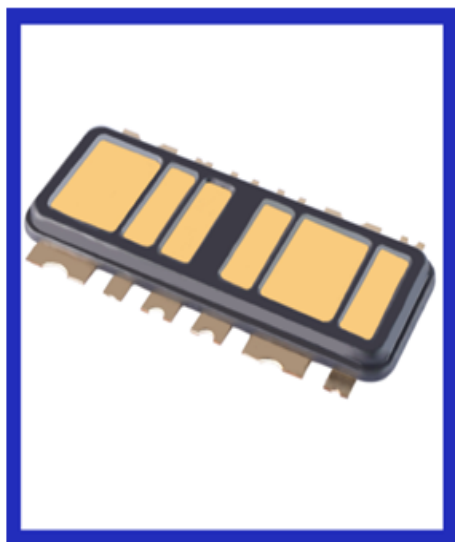
Item no : BC-005S-35-3  
Specification : 8.5mm\*3.8mm  
Pitch(mm) : 3.5  
Number or Terminal : 3P-6P  
Plating: Gold  
Installation type: SMT  
Welding method: Manual/wave soldering  
Rated current and voltage: 3A 12V DC  
Contact resistance : 20mΩ MAX  
Withstand voltage : 500V / mins  
Insulation resistance : 100MΩ MIN  
operating force : 600gf  
Life cycle : 20, 000Cycles



Item no : BC-009S-25-5  
Specification : 4.7mm\*4.3mm  
Pitch(mm) : 2.5  
Number or Terminal : 3P-6P  
Plating: Gold  
Installation type: SMT  
Welding method: Manual/wave soldering  
Rated current and voltage: 2A 100V DC  
Contact resistance : 20mΩ MAX  
Withstand voltage : 500V / mins  
Insulation resistance : 100MΩ MIN  
operating force : 400±100gf  
Life cycle : 20, 000Cycles



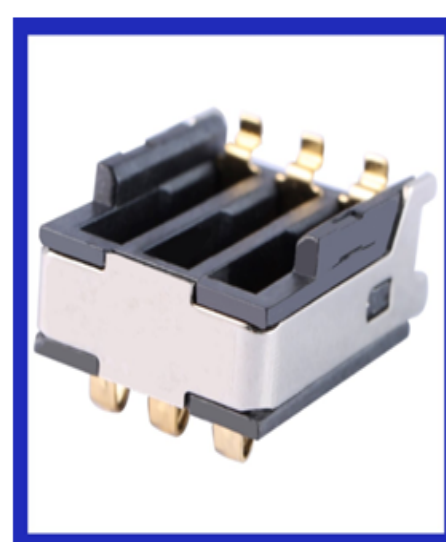
Item no : BC-013S-25-4  
Specification : 10.0mm\*8.0mm  
Pitch(mm) : 2.5  
Number or Terminal : 4P  
Plating: Gold  
Installation type: SMT  
Welding method: Manual/wave soldering  
Rated current and voltage: 2A 100V DC  
Contact resistance : 20mΩ MAX  
Withstand voltage : 500V / mins  
Insulation resistance : 100MΩ MIN  
operating force : 400±100gf  
Life cycle : 20, 000Cycles



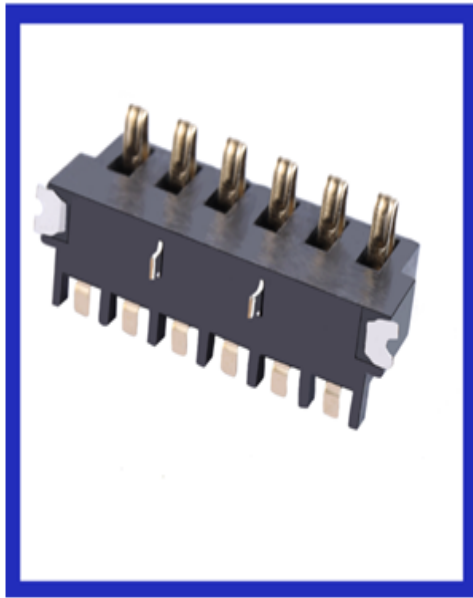
Item no : BC-020S  
Specification : 24.14mm\*9.34mm  
Plating: Gold  
Installation type: SMT  
Welding method: Manual/wave soldering  
Rated current and voltage: 2A 12V DC  
Contact resistance : 20mΩ MAX  
Withstand voltage : 500V / mins  
Insulation resistance : 100MΩ MIN  
Life cycle : 5,000Cycles  
Packing: 1000PCS/REEL



Item no : BC-027S-4.3-3  
Specification : 11.8mm\*9.0mm  
Pitch(mm) : 4.3  
Number or Terminal : 3P  
Plating: Gold  
Installation type: SMT  
Welding method: Manual soldering  
Rated current and voltage: 2A 12V DC  
Contact resistance : 30mΩ MAX  
Withstand voltage : 500V / mins  
Insulation resistance : 100MΩ MIN  
Life cycle : 10,000Cycles



Item no : BC-028S-2.5-3  
Specification : 10.2mm\*8.7mm  
Pitch(mm) : 2.5  
Number or Terminal : 3P  
Plating: Gold  
Installation type: SMT  
Welding method: Manual/wave soldering  
Rated current and voltage: 2A 100V DC  
Contact resistance : 30mΩ MAX  
Withstand voltage : 100V / mins  
Insulation resistance : 1000MΩ MIN  
operating force : 90±20gf  
Life cycle : 7,000Cycles



**Item no :** BC-038S-6P  
**Specification :** 3.3mm\*6.1mm  
**Plating:** Gold  
**Installation type:** SMT  
**Welding method:** Manual/wave soldering  
**Rated current and voltage:** 2A 12V DC  
**Contact resistance :** 20mΩ MAX  
**Withstand voltage :** 500V / mins  
**Insulation resistance :** 100MΩ MIN  
**Operating force :** 400±100gf  
**Life cycle :** 20,000Cycles



**Item no :** BC-025S-3P  
**Specification :** 5.4mm\*3.7mm  
**Plating:** Gold  
**Installation type:** SMT  
**Welding method:** Manual/wave soldering  
**Rated current and voltage:** 2A 12V DC  
**Contact resistance :** 20mΩ MAX  
**Withstand voltage :** 500V / mins  
**Insulation resistance :** 100MΩ MIN  
**Operating force :** 150±50gf  
**Life cycle :** 10,000Cycles



**Item no :** BC-039S-3P  
**Specification :** 3.7mm\*6.95mm  
**Plating:** Gold  
**Installation type:** SMT  
**Welding method:** Manual/wave soldering  
**Rated current and voltage:** 3A 20V DC  
**Contact resistance :** 20mΩ MAX  
**Withstand voltage :** 500V / mins  
**Insulation resistance :** 100MΩ MIN  
**Operating force :** 600gf  
**Life cycle :** 10,000Cycles





*Thank You!*

