

## 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 differe nt 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:**  $\leq 100m2$
- **3. Insulation resistance: AC500V for 1 minute**
- 4. Operating temperature: -55°C+125°C
- **5. Solder resistance temperature: 260℃±5℃**

6. Life Cycle: 5,000 time 30,000 times Operating temperature range: -40°C to +125°C Nickel-plated goldplated 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 : Specification : Pitch(mm) : 2.5 Number or Terminal: 3P-6P Plating: Gold SMT Installation type: Welding method: Rated current and voltage: 2A 100V DC Contact resistance : Withstand voltage : Insulation resistance : operating force 3 Life cycle :

BC-009S-25-5 4.7mm\*4.3mm Manual/wave soldering  $20m\Omega$  MAX 500V / mins  $100M\Omega$  MIN 400±100gf 20, 000Cycles



BC-013S-25-4 Item no : Specification : 10.0mm\*8.0mm Pitch(mm) : 2.5 Number or Terminal: **4P** Plating: Gold SMT Installation type: Welding method: Manual/wave soldering Rated current and voltage: 2A 100V DC  $20m\Omega$  MAX Contact resistance : Withstand voltage : 500V / mins Insulation resistance :  $100M\Omega$  MIN 400±100gf operating force 3 20, 000Cycles Life cycle :



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 :	<b>20m</b> Ω MAX
Withstand voltage :	500V / mins
Insulation resistance :	$100 \mathrm{M}\Omega \mathrm{MIN}$
Life cycle :	5,000Cycles
Packing:	1000PCS/REEL



Item no :	BC-027
Specification :	11.8mm
Pitch(mm) :	4.3
Number or Terminal :	3 <b>P</b>
Plating:	Gold
Installation type:	SMT
Welding method:	Manual
Rated current and voltage:	2A 12V
Contact resistance :	<b>30m</b> Ω I
Withstand voltage :	500V / 1
Insulation resistance :	100MΩ
Life cycle :	10,000C

-0278-4.3-3 DO 1\*9.0mm soldering 'DC MAX mins MIN Cycles



Item no :	BC-028S-2.5
Specification :	10.2mm*8.71
Pitch(mm) :	2.5
Number or Terminal :	3P
Plating:	Gold
Installation type:	SMT
Welding method:	Manual/wave s
Rated current and voltage:	2A 100V DC
Rated current and voltage: Contact resistance :	2A 100V DC 30mΩ MAX
Rated current and voltage: Contact resistance : Withstand voltage :	2A 100V DC 30mΩ MAX 100V / mins
Rated current and voltage: Contact resistance : Withstand voltage : Insulation resistance :	2A 100V DC 30m Ω MAX 100V / mins 1000MΩ MI
Rated current and voltage: Contact resistance : Withstand voltage : Insulation resistance : operating force :	2A 100V DC 30m Ω MAX 100V / mins 1000M Ω MI 90±20gf
Rated current and voltage: Contact resistance : Withstand voltage : Insulation resistance : operating force : Life cycle :	2A 100V DC 30m Ω MAX 100V / mins 1000M Ω MI 90±20gf 7,000Cycles

BC-028S-2.5-3
10.2mm*8.7mm
2.5
3P
Gold
SMT
Manual/wave soldering
2A 100V DC
30mΩ MAX
100V / mins
1000MΩ MIN
90±20gf



ltem no :
Specification :
Plating:
Installation type:
Welding method:
Rated current and voltage
Contact resistance :
Withstand voltage :
Insulation resistance :
Operating force :
Life cycle :

	BC-038S-6P
	3.3mm*6.1mm
	Gold
	SMT
	Manual/wave soldering
:	2A 12V DC
	<b>20m</b> Ω <b>MAX</b>
	500V / mins
	$100M\Omega$ MIN
	400±100gf
	20.000Cvcles



Item no : Specification : Plating: Installation type: Welding method: Rated current and voltage: 2A 12V DC Contact resistance : Withstand voltage : Insulation resistance : Operating force : Life cycle :

BC-025S-3P 5.4mm\*3.7mm Gold SMT Manual/wave soldering  $20m\Omega$  MAX 500V / mins  $100M\Omega$  MIN 150±50gf 10,000Cycles



Item no :	BC
Specification :	3.7
Plating:	Gol
Installation type:	SM
Welding method:	Man
Rated current and voltage:	3A
Contact resistance :	20n
Withstand voltage :	500
Insulation resistance :	100
Operating force :	600
Life cycle :	10,

BC-039S-3P
3.7mm*6.95mm
Gold
SMT
Manual/wave soldering
3A 20V DC
20mΩ MAX
500V / mins
100MΩ MIN
600gf
10,000Cycles



