

# Spring Battery Connector

## FLEXIBLE CUSTOM-DESIGNED PRODUCT FOR MOBILE DEVICES

Spring battery connectors are very popular in hand-held devices applications. Amphenol ICC's flexible, custom designs and production capabilities allow various pitch sizes, pin configurations, soldering requirements and different stack heights in spring battery connectors. It offers a current rating of 2A/pin. A durability of 5000 mating cycles, adds to the mechanical performance of these connectors. These are available in both through hole and SMT options, supporting different soldering methods.

- Current rating of 2A/pin
- Customizable pitch, pin configuration, and soldering type
- Various stack heights available



### TARGET MARKETS



### FEATURES

- Current rating of 2A/pin or higher
- Through hole and SMT options
- Custom-designed product with choice of various stack heights, pitch sizes, pin configurations and soldering type
- High temperature housing available in UL 94V-0
- 5000 mating cycles
- Stable manufacturing processes

### BENEFITS

- Meets the power requirement of battery applications
- Support different soldering types
- Flexible design and better space utilization
- Meet safety requirements
- High durability
- Products with reliable performance

# TECHNICAL INFORMATION

## MATERIAL

- Insulator : High temperature thermoplastic, UL94V-0
- Contact: Copper alloy, Au15u" gold plating at mating area, 50u" to 200u" average Tin plated on soldering tail, 50u" min nickel under-plated overall

## MECHANICAL PERFORMANCE

- Durability: 5000 mating cycles
- Normal force at mated position: 80g min.

## ELECTRICAL PERFORMANCE

- Current Rating: 2A per contact
- Contact Resistance: 30mΩ max.
- Insulation Resistance: 500MΩ min.
- Voltage Rating: 250V AC

## SPECIFICATION

- Amphenol Specification: S-BC-008 for 3 pin vertical battery connector

## PACKAGING

- Tape and Reel

## ENVIRONMENTAL

- Thermal Shock: MIL-STD-202 Method 107 Condition A. , Contact resistance 30mΩ max.
- Salt Spray Test: MIL-STD-1344, no physical damage. Contact resistance (Signal) 50mΩ max.
- Static Humidity: Appearance no damage, Insulation resistance (Signal) 500MΩ, Contact resistance (Signal) 30mΩ max.

## TARGET MARKETS/APPLICATIONS



Smart Phone  
Tablet  
Digital Camera



Medical Tablet



Barcode Scanner

# PART NUMBERS

Description	Pitch	Part Numbers
Spring battery connector, 3pin, SMT type	1.6mm	BC23S03
Spring battery connector, 3pin, SMT type	2.0mm	BC23W03
Spring battery connector, 10pin, SMT type	4.0mm	BC2460L103
Spring battery connector, 3pin, SMT type	1.6mm	BC25S03
Spring battery connector, 3pin, SMT type	2.8mm	BC2718L03001A
Spring battery connector, 4pin, SMT type	1.6mm	BC30S04
Spring battery connector, 3pin, SMT type	2.5mm	BC3550Y0302A
Spring battery connector, 2pin, SMT type	1.6mm	BC3552S02
Spring battery connector, 4pin, SMT type	2.0mm	BC36W042A
Spring battery connector, 3pin, SMT type	2.5mm	BC4054Y0302A
Spring battery connector, 3pin, SMT type	3.0mm	BC4057R03001
Spring battery connector, 3pin, SMT type	2.5mm	BC4560Y0302A1



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