

Battery
Management
Systems

Amphenol Information
Communications
and Commercial Products

Battery Management System

An innovative application with even greater potential

The Battery Management System is an electronic system for the complete control of all the diagnostic and safety functions for the management and balancing of the electric charge. Therefore, these systems can be found wherever there is a need for efficient control and monitoring of a battery system. This means that applications vary from the Automotive market, Agriculture; Material Handling, Commercial Vehicles; Outdoor Equipment and Maintenance/Industrial. FCI Basics recently developed new, compact connector systems that meet the BMS requirements for reduced package size, space consumption, weight and wire size. On top, they meet automotive standards like LV214 and USCAR.

Automotive

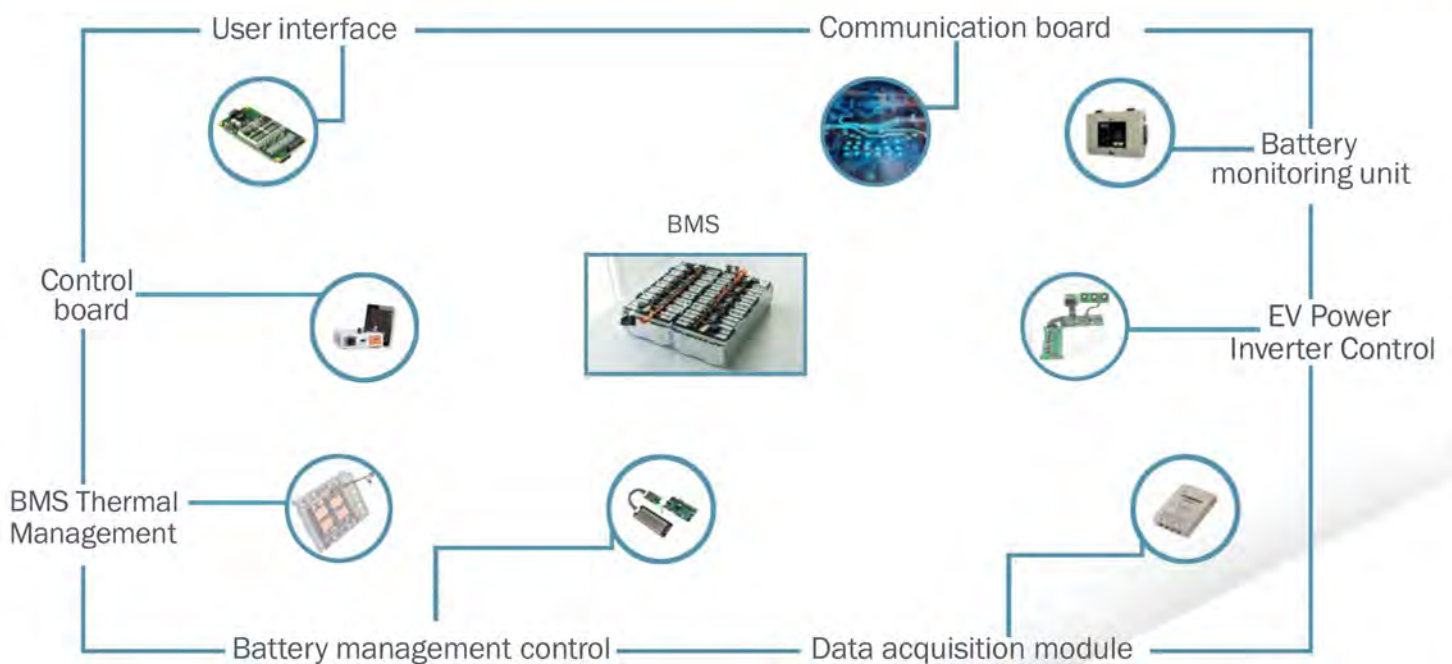
Material Handling

Agriculture

Commercial Vehicles

Outdoor Equipment

Applications and Products



MicroSpace™ Versatile Wire to Board connector system

Value Proposition

[Minitek MicroSpace™1.27mm / product presentation](#)

The MicroSpace™ compact design addresses the growing need for miniaturized components and is capable of reducing the PCB footprint by 50% due to increased signal density.

MicroSpace™ is available in 1.27 and 1.50 mm pitch with surface-mount and pin-in-paste configuration in single and double row with top and side latch options.

MicroSpace™ with LV214 Severity-2 compatibility and MicroSpaceXS with USCAR compatibility makes this connector family especially suitable for automotive applications.

Configurations

- ◆ Pitch: 1.27, 1.50,
- ◆ Positions :
 - ◆ Single row : from 2 to 15
 - ◆ SR Staggered : from 2 to 16
 - ◆ Double row : from 4 to 30
- ◆ Operating Temperature: -40°C to +130°C
- ◆ Current rating: 4A

Features

- ◆ Terminal Positioning Assurance (TPA)
- ◆ Connector Positioning Assurance (CPA)
- ◆ Poka-yoke polarization

Target Markets and Applications

- ◆ Automotive



FlexLock® Compact USCAR-T2V2 compatible connectors

Value Proposition

[FlexLock® / product presentation](#)

FlexLock® FPC-to-Board connectors are designed to address the growing demands of the automotive market.

FlexLock® is available in 2.54 mm pitch, 10 up to 30 positions, 3A/pin current capability, with Connector Positioning Assurance.

FlexLock® is available in double row, vertical and right angle, surface-mount and through hole.

Configurations

- ◆ Pitch: 2.54mm
- ◆ Positions:
 - ◆ Double row : from 10 to 30
- ◆ Current rating: 3A

Features

- ◆ Terminal Positioning Assurance (TPA)
- ◆ Connector Positioning Assurance (CPA)
- ◆ Hold down features

Target Markets and Applications

- ◆ Automotive
- ◆ Industrial



WireLock® More Reliability, Low Mating Force, Automotive Grade Connector System

Value Proposition

[WireLock® / product presentation](#)

The WireLock® Wire-To-Board connector design addresses the growing need for automotive grade, compact interconnect.

Meets the needs of demanding applications for BMS in Automotive markets and is compliant to USCAR-2 and QC-T1067.1-2017

WireLock® is available in 1.80 mm pitch, with positions from 10 to 40 in double row, vertical and right angle, through hole and SMT type, top latch with CPA

Wire Gauge: 22-26AWG

Configurations

- ◆ Pitch: 1.80mm
- ◆ Positions:
 - ◆ from 10 to 40
- ◆ Current rating: 3A

Features

- ◆ Terminal Positioning Assurance (TPA)
- ◆ Connector Positioning Assurance (CPA)
- ◆ Four different coding with different colors

Target Markets and Applications

- ◆ Automotive



Amphenol Information Communications and Commercial Products

Battery Management Systems



BMS Control Board



Battery
Management
Control



MicroSpace™
WireLock®
MultiPitch®



Battery management
monitoring unit



Battery
Management System

