



Energy Storage System

Amphenol Information
Communications
and Commercial Product

FCI Basics

Energy Storage System (ESS)

Energy Storage Systems (ESS) store energy and stabilize electrical performance in large grid installations as well as medium commercial to residential establishments. Lithium-ion batteries are the basic building blocks of ESS and together with inverters or Power Conditioning Systems (PCS) help the ESS manage peak and off-peak power requirements of the locality or household. Residential ESS found in smart homes come with wall-mounted batteries or modules and are coupled with AC/DC Inverters. For commercial or industrial establishments, several of these modules stack up to form racks while multiple such racks are arranged within a container which works as the commercial ESS for large smart grids. The excess power produced by renewable energy resources like solar and wind power are captured by ESS, avoiding massive frequency fluctuations, thereby boosting the reliability and power quality of the grid. Amphenol provides a range connectors and many more advanced interconnects for ESS.



Energy Storage Systems

Commercial System Components – Key Connector Solutions



Energy Storage Systems

Residential System Components – Key Connector Solutions



Energy Storage Systems

Charging Station Components – Key Connector Solutions



Minitek®
2.00mm



FFC/FPC
0.5 / 1.00mm

EV Supply Equipment



AC/DC Converter

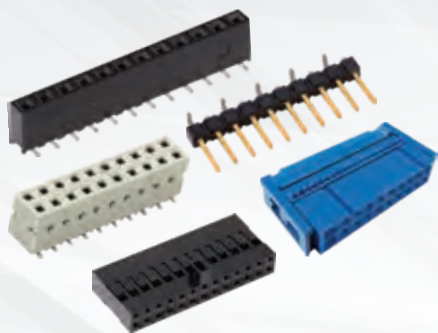


ComboStak®
0.80mm / 2.00mm



Minitek127® 1.27mm
1.27mm

FCI Basics



BergStik® Dubox® Quickie® PV® Minithek®

- Pitch 2.54 / 2.00mm
- Current Rating: 3A – 2A
- Modular System



WireLock®

- Pitch 1.80mm
- Current Rating: 3A
- TPA, CPA, USCAR-2 V2 compatible



MicroSpace™

- Pitch 1.27 - 1.50mm
- Current Rating: 4A
- TPA, CPA, LV214 Severity-2 compatible



MicroSpaceXS™

- Pitch 1.27mm
- Current Rating: 4A
- TPA, CPA, LV214 Severity-3 and USCAR-T2V2 compatible



MicroSpaceXS™ Waterproof

- Pitch 1.27mm
- Current Rating: 3A
- TPA, CPA, LV214 Severity-3 and USCAR-T2V2 compatible



Minithek127® 1.27mm

- Pitch 1.27mm
- Current Rating: up to 1A
- Wide range of mating headers



FlexLock®

- Pitch 2.54mm
- Current Rating: 3A
- TPA, CPA, USCAR-2 V2 compatible



ComboLock®

- Pitch 3.00mm Power, 1.00mm Signal
- Current Rating: 10A Power, 1.5A Signal
- Hybrid Solution



Fine Pitch Minithek®

- Pitch 0.80 / 1.00 / 1.25mm
- Current Rating: 1A – 0.5A
- Modular System

FCI Basics



MicroSpeed®

- Pitch 1.00mm
- Current Rating: Up to 1A
- Speed: up to 25Gb/s



Conan®

- Pitch 1.00mm
- Current Rating: Up to 1A
- Speed: up to 8Gb/s



BergStak®

- Pitch 0.80mm
- Current Rating: Up to 0.8A
- Speed: up to 12Gb/s



ComboStak®

- Pitch Power 2.0mm, 0.80mm Signal
- Current Rating: Power 20A Signal 0.8A
- Speed: up to 12Gb/s



USB

- USB 3.1 Type C; USB 3.1 & USB 2.0; Micro USB 2.0; Mini USB 2.0
- Speed up to 10Gb/s



FFC/FPC

- Pitch 0.50 / 1.00mm
- ZIF, Non-ZIF
- Contact direction:
Top, Bottom, Vertical

R&D Sites & Manufacturing Footprint

Besançon, France

Nantong, China

Senai, Malaysia

FCI Basics, the Amphenol PCB interconnect specialist

BASICS

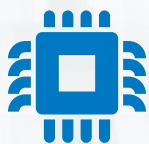
The brand BASICS was established at Amphenol ICC in the early 2000s, when a portfolio of industry leading Wire-to-Board and Board-to-Board connectors was brought together in a global Amphenol ICC business unit. With industry recognized brand names like Dubox®, BergStik®, Quickie®, Minitek® and BergStak®, BASICS has developed itself into a global leader in PCB interconnect.

EXPANDED PRODUCT RANGE

Today, BASICS offers a broad, modular interconnect platform of high quality and innovative solutions for all main industries and applications. The BASICS portfolio offers the right mix between industry-proven solutions and state-of-the art connector technology.

Our solutions include :

- Wire-to-Board
- Board-to-Board
- Input/output
- FFC/FPC
- Hybrid Wire-to-Board
- Hybrid Board-to-Board
- Customized solutions



Modular & Flexible Product Range

With millions of configurable options, we have the products to meet your performance and quality requirements for your specific application.



In Stock

Our global and regional distribution partners are stocking the most popular connectors for your designs, with over 6,000 products ready to ship.



Easy Design-In

Instant online access to all related info, a fast Sample Service, crimped leads and stocked items: it's very easy to complete your design with BASICS!



Customized Solutions

Partner with us for your customized connection needs. With advanced engineering and fast prototyping, we provide solution proposals in a week or less.