

# About Flex PCB

## RIGID FLEX PRINTED CIRCUIT BOARDS

RFPCB's are products using a combination of flexible and rigid board technologies in one application. Depending upon the design of the application, rigid flex PCB's typically consist of multiple layers of flexible circuit substrates attached to one or more rigid boards externally and/or internally, depending upon the design of the application. The flexible substrates are designed to be in a constant state of flex and are usually formed into the flexed curve during manufacturing or installation.

## FLEX PRINTED CIRCUIT BOARDS

By definition a Flex PCB is a patterned arrangement of printed circuitry and components that utilizes flexible based material with or without flexible coverlay. These flexible electronic assemblies may be fabricated using the same components used for rigid printed circuit boards, but allowing the board to conform to a desired shape (flex) during its application.

## FLEX AND RIGID FLEX PCB APPLICATIONS

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Rigid-flex circuitry provides a simple means to integrate multiple PCB assemblies and other elements such as display, input or storage devices without wires, cables or connectors, replacing them with thin, light composites that integrate wiring in ultra-thin, flexible ribbons between sections. In rigid-flex packaging, a flexible circuit substrate provides a backbone of wiring with rigid multiplayer circuit sections built-up as modules where needed.

Flex PCBs are used widely in everyday technology and electronics in addition to high-end, complex completed components. Two of the most prominent examples of flexible circuit usage is in modern portable electronics, devices, hard disk drives and desktop printers.

Flexible circuits are also used extensively in other applications and industries including: Communications, Industrial, consume electronics, aerospace, military, medical, and transportation.