

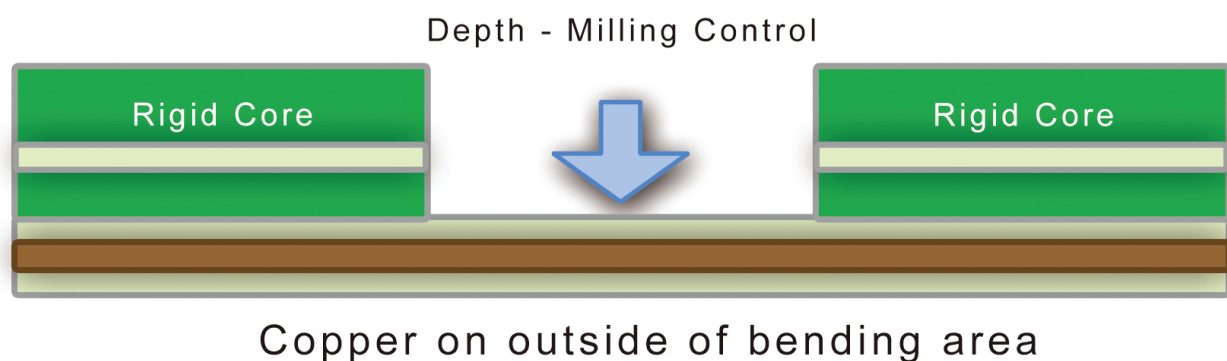


Technology Development Limited

Semi-Flexible PCB

Semi-flexible printed circuit boards differ from fully flexible in the materials used, as well as in the restricted bending radius and the limited number of bending cycles. Instead of polyimide, thin standard FR4 is used as a more economical alternative in certain applications.

By simple depth milling control, a normal printed circuit board can be turned into more flexible status. In this way 'semi-flexible' PCB provides a lower cost option. This could reduce the number of connectors and increase reliability, as well as decrease the dimension of the application and assembly time. It is a better solution for those flex installation is required and there is no operation during dynamic bending.



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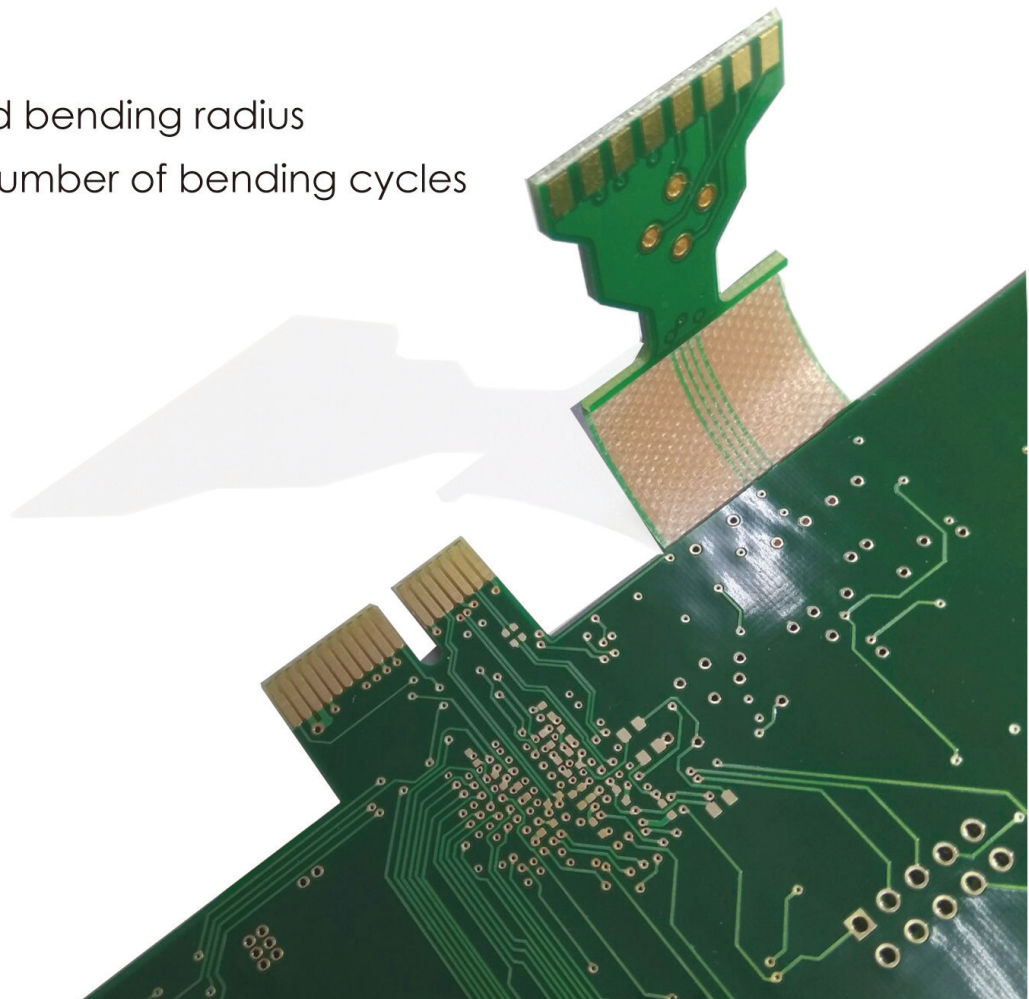
Semi-Flexible PCB

Pros

- More economical alternative to Rigid-flex PCB
- Reduce the number of connectors
- Increase reliability
- Decrease the dimension of the application
- Decrease assembly time

Cons

- Restricted bending radius
- Limited number of bending cycles



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