

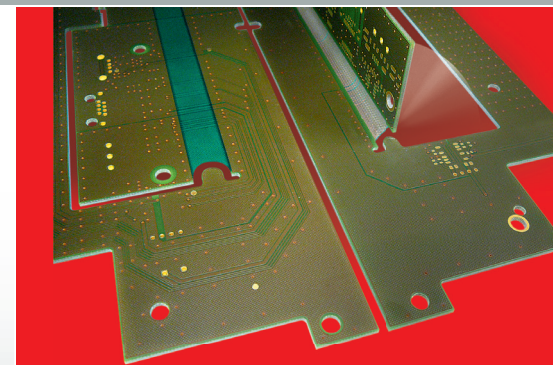
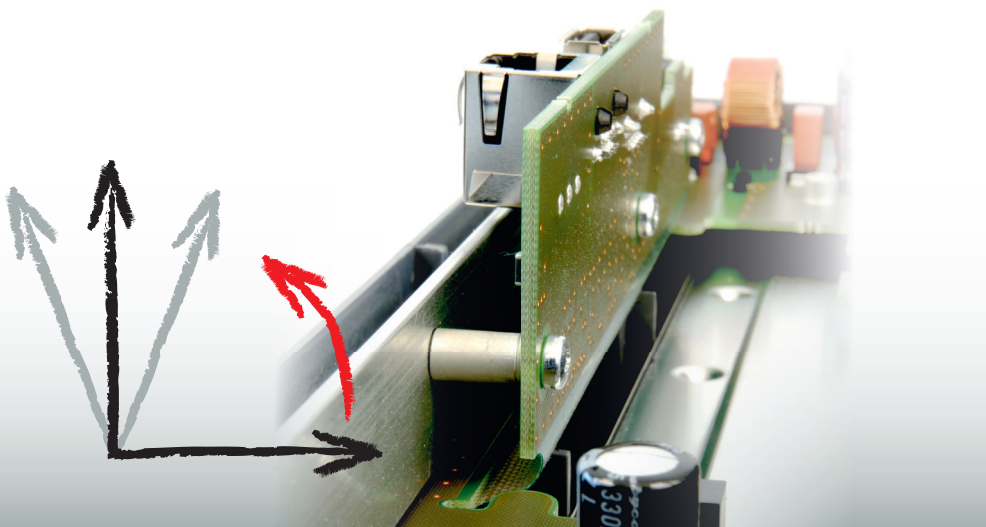


APPLICATION NOTE

Issue 24



Plug-in connections at any angle



Integrated wiring of complex connectors with FR4 Semiflex

Is your connector in a wrong direction? We can provide a solution to you!

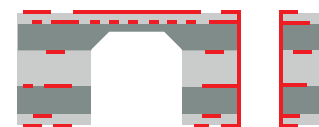
FR4 Semiflex circuit boards are produced by using rigid PCBs and application of flexible solder-mask and depth controlled routing in the bendable area. Thus an integrated bendable and cost-effective wiring is possible and in many cases a cable-connector solution could be replaced. The benefit is an improved reliability at lower total cost as well as the possibility to bend the connector at any angle.

The advantages at a glance

- Any angle is possible using standard connectors
- Omitting of cabling, plugged or soldered connectors and thus area saving on the pcb
- Robust and cost saving solution
- Excellent signal integrity by omitting changes in the copper cross-sectional area to the connector
- No special drying process prior soldering needed
- Shielding layer possible as 2nd layer in the bending area
- Combinations with complex HDI-stackup possible



ML4 Semiflex 1-layer



ML6 Semiflex 2-layers

