



ERNI has now complemented its MicroSpeed connector system by a cable solution. Its base are flex printed circuits (FPCs). The focus here is on highly optimized custom-specific interconnects, which do have clear advantages especially in conjunction with wire harness-like laying of interconnect structures. Standard offerings support with building prototypes and with electronic assembly debugging as well.

## Features

- 2-layer versions for best competitiveness (one signal layer one GND reference layer).
- 3-layer versions for highest EMC performance and signal integrity. Fully shielded on both sides of signal paths.
- Some generic standard parts in preparation.
- Standard main stream products based on 50 pin connectors.
- May be custom-tailored to a wide range of standard applications:
  - Highest signal speed
  - Higher flexing cycles
- Versions with locking mechanics will be available in the near future.

## Application-specific features

- Length
- Connector orientation
- Signal assignment
- Other connectors
- Signal routing with multiple connectors

## Applications

- Allow measurements at mezzanine boards. Open otherwise non-detachable boards like a clam shell in order to access testpoints.
- Extender cable for debugging.
- Suitable for any kind of internal wiring.
  - Sensor signalling
  - Board-to-board high-speed transmission
  - Wherever boards need to be connected with internal wiring

## Advantages

- Better performance in high-speed signal transmission than products based on IDC-termination technology.
- High flexing cycle applications possible.
- Lower losses than in FR-4.