

FX18 Series, 0.8mm Pitch, 10+ Gbps High Speed Board to Board connectors with Multi Functional contacts.

The FX18 series has been introduced to meet the high demand for connectors that are suitable for high speed applications. FX18 delivers an impressive 10+ Gbps of high speed transmission and supports PCI - Express Ver. 2.0.

The innovative structure of the connector features advanced multi functional contacts that consist of ground contacts, power supply contacts and three step sequential contacts. The ground contacts provide superior enhanced grounding properties and are strategically positioned next to the differential pair contacts to reduce crosstalk. The power supply contacts offers up to 3 amps per pin which means that the signal contacts do not have to be used for power and the pin count requirement can be reduced saving valuable space. A total of 12 amps can be used. The three step sequential contacts are set back in different positions within the housing so that the ground contacts make first contact followed next by the signal contacts and then finally the contacts for the detection of the mating contacts.

The FX18 series consists of right angle and straight receptacles and headers in 40, 60, 80, 100, 120 and 140 contact sizes in surface mount type. A further six through hole pins are provided to increase the board retention force of the connector to the board allowing strong resistance to wrenching forces. Large mating guides are provided on the header to provide smoother, more secure and user friendly mating operation. Incorrect insertion is prevented with keyed guides with integral chamfers.

Visible solder joints, space for rework and the option of pin in hole intrusive reflow permits reduced manual soldering process time.

Suitable applications are medical devices, base transmission stations, LCD TV, LCD displays and industrial controllers.

Key Features

- Contact Size: 40, 60, 80, 100, 120, 140
- Current rating: 0.5A/3A current
- Pitch: 0.5mm
- High Speed: 10+ Gbps
- Voltage rating: 100V AC
- Versions: Right Angle, Vertical & Coplanar



For more information please contact Hirose.