



Hirose Interconnects for Board-to-Board Applications

"Creative Links to World Electronics"

HRS **Hirose
Electric
(USA), Inc**

A World Leader in Interconnect Technology

Hirose provides innovative, cutting edge solutions to your interconnect requirements. With over 70 years experience in design, development and manufacturing of interconnect solutions for the consumer, medical, industrial, and automotive markets, Hirose has established itself as the technology leader. Hirose remains at the forefront of interconnect technology; working closely with customers to develop innovations in miniaturization, high speed data transmission, signal integrity and mechanical design.

Board-to-Board Connectors

Engineers often face issues with getting signals from one point to another within their design. Hirose's Board-to-Board connectors offer innovative, cost effective answers to these problems. With contact pitches ranging from 0.4mm to 5mm, multiple pin counts, various termination styles and many height combinations, Hirose has the interconnect solution to solve your application's demands.

This brochure lists our more popular Board-to-Board connectors.



DF9 Series

Pitch: 1mm

Mated height: 4.3mm

Connection style: Parallel

Contact positions: 9, 11, 13, 15, 17, 19, 21, 23, 25, 31, 41, 51

31 and 41 position connectors comply with the VESA standard specification for flat panel display interface (FPDI-1).



DF12 Series

Pitch: 0.5mm

Mated heights: 3.0mm, 3.5mm, 4.0mm, or 5.0mm

Connection style: Parallel

Contact positions: 10, 14, 20, 22, 30, 32, 36, 40, 50, 60, 80

A very versatile connector that lends itself to a wide range of board-to-board applications.



DF17 Series

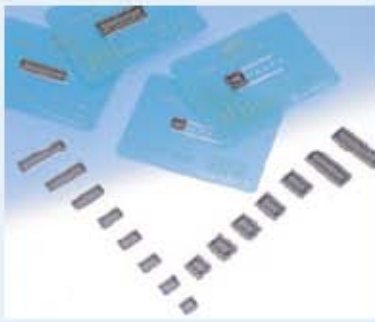
Pitch: 0.5mm

Mated heights: 4mm, 5mm, 5.5mm, 6mm, 6.5mm, 7mm, or 8mm

Connection style: Parallel

Contact positions: 20, 26, 30, 40, 50, 60, 70, 80

The special design of the contact and housing has greatly enhanced it's resistance to drop shock. Typical applications include connecting LCD displays, cell phones, hand held and other portable device applications.



DF23 Series

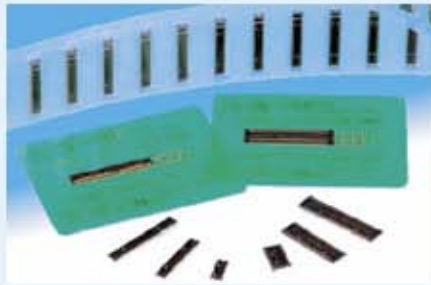
Pitch: 0.5mm

Mated height: 1.5mm

Connection styles: Parallel and Board-to-FPC

Contact positions: 10, 12, 14, 16, 18, 20, 22, 30, 40, 50, 60

Excellent connector for use in limited space application due to the 1.5mm mated height. Low profile and high reliability contacts are well suited to portable and miniature devices.



DF30 Series

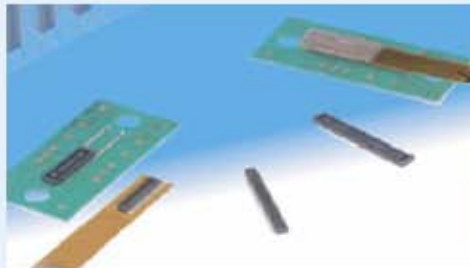
Pitch: 0.4mm

Mated height: 0.9mm

Connection styles: Parallel and Board-to-FPC

Contact positions: 10, 12, 14, 20, 24, 30, 34, 40, 44, 50, 60, 70, 80

Space saving design with minimized PCB mounting area for high-density packaging on cell phones, digital cameras, notebook PCs and portable device applications.



DF40 Series

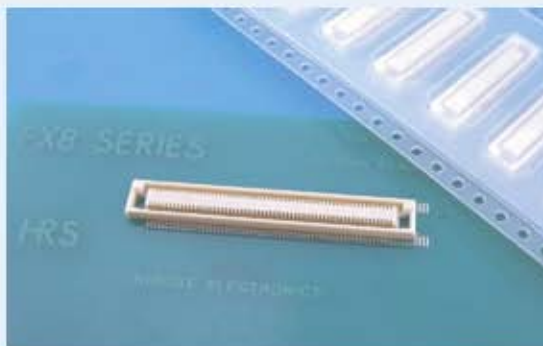
Pitch: 0.4mm

Mated height: 1.5mm

Connection styles: Parallel and Board-to-FPC

Contact positions: 10, 20, 24, 30, 40, 50, 60, 80, 100

Another small form factor connector for board-to-board and board-to-FPC applications needing extreme PCB space saving.



FX8/FX8C Series

Pitch: 0.6 mm

Mated heights for FX8: 3mm or 4mm

Connection style for FX8/FX8C: parallel

Contact positions FX8: 40, 60, 80, 90, 100, 120, 140

Mated heights for FX8C: 5, 6, 7, 9, 10, 11, 12, 12.5, 14, 16, 17.5mm

Contact positions FX8C: 40, 60, 80, 90, 100, 120, 140, 160, 200, 240, 280

The FX8/FX8C series fit a wide range of board-to-board applications that require both high contact count and flexibility with mated heights. Note: FX8 and FX8C are not interchangeable with each other.



FX11 Series

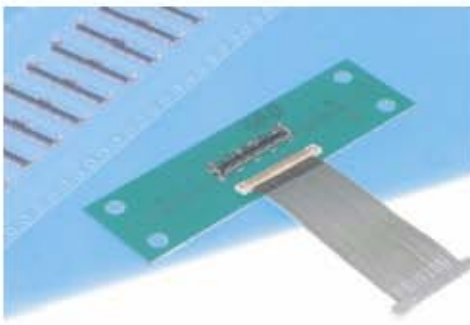
Pitch: 0.5 mm

Mated heights: 2mm, 2.5mm, 3mm

Connection style: Parallel

Contact positions: 60, 68, 80, 92, 100, 116, 120, 140

Designed for high speed signal transmission in notebook computers, PDA's and other compact devices.



Hirose Electric is a leading, global interconnect manufacturer specializing in a wide range of solutions for advanced technologies.

We have connectors for: automotive, fiber optic, circular, power, mobile/cellular telephones, board-to-board, wire-to-board, microwave, telecomm, flex circuit (FPC/FFC), memory card connectors, ribbon cable, mini/micro USB, HDMI and other connectors.



Hirose is an ISO 9001 company