



Industrial Connectors

Leading Technology
Interconnect Solutions
for Industrial Applications



HRS HIROSE
ELECTRIC
U.S.A.

CONNECTING THE FUTURE

Advance with ix Industrial™

The Next-Generation Ethernet Connector for Industrial Equipment



IX Series

Features

1. **High - Speed transmission: 10Gbps**
 - Cat.6A and Cat.5e high-speed Ethernet performance, High EMC resistance secures safe and stable data transmission
2. **75% Space saving**
 - Reduce installation space with 10mm pitch mounting
 - Multiple configurations available (vertical, horizontal, right angle) with keying options
3. **Rugged Design**
 - Strong vibration resistance and secure locking due to unique shell design
 - 5000 Mating Cycles
4. **Simplified Workability and Implementation**
 - Pin-in-Paste compatibility
 - Standard or proprietary cable solutions
 - Field serviceable plugs



High-Current



High-Speed



Robust

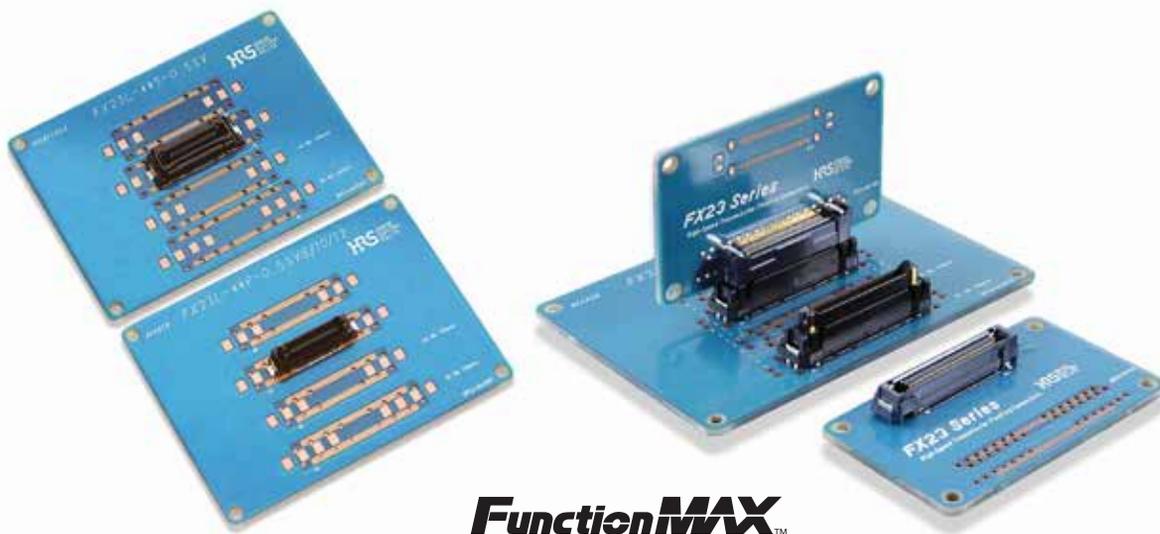
- Rated current : 1.5A
- Operating Temperature : -40 to +85°C
- Rated Voltage : 50V AC/60V DC
- No of Pos. : 10pos.

A WORLD LEADER INTERCONNECT TECHNOLOGY

Hirose provides innovative & quality solutions for your interconnect requirements. We specialize in the design, development & manufacturing of high-performance products supporting the automotive, consumer, medical, and industrial markets. With over 80 years experience, Hirose has established itself as a growing technology leader. Hirose is a \$1.2 billion company, with over 4,500 employees worldwide, supporting customers around the world.

Floating Board to Board Connector with Power Contacts

High-speed transmission 0.5mm pitch



FunctionMAX™

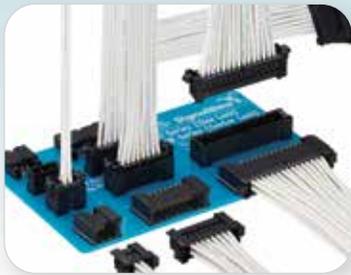
FX23/FX23L Series

Features

1. $\pm 0.6\text{mm}$ floating design in XY directions, ($\pm 1.2\text{mm}$ maximum float in XY directions with certain configurations) absorbs misalignment between boards
2. High-speed transmission capability (Supports up to 8+Gbps)
3. Two Power contacts on each guide post of the connector (3A/pin \times 4pins) saves boardspace
4. Stack heights from 8mm to 30mm
5. Recommended for robotic assembly



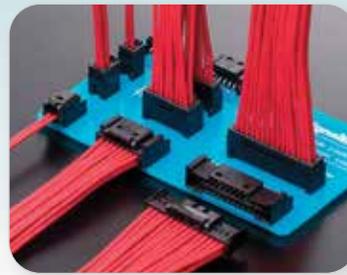
- Rated current: 0.5A/pin (signal), 3A/pin (4 power pins)
- Operating Temperature: -55C to +105C
- Rated voltage: AC - Signal: 50V AC
Power: 200V AC
- No of Pos.: 20/40/60/80/100/120 for signal
+ 4 for power source
- DC - Signal: 100V DC
Power: 250V DC



DF51 Series

- Pitch: 2mm
- 22 - 30 AWG
- 2A max rated current
- 250V AC/DC
- Contact positions:
2 - 6 (single row)
4 - 30 (double row)

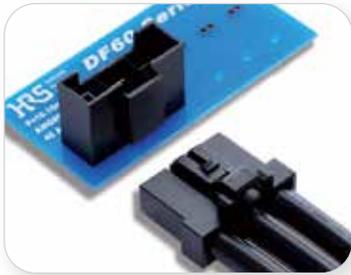
Part of the SignalBee connector family, the DF51 Series connector has a user-friendly positive lock that provides a clear tactile click & secures a reliable connection.



DF51K Series

- Pitch: 2mm
- 22 - 30 AWG
- 2A max rated current
- 250V AC/DC
- Contact positions:
2 - 6 (single row)
4 - 30 (double row)

The new DF51K Series features a space-saving center lock design. The user-friendly positive lock provides a clear tactile click and secures a reliable connection.



DF60 Series

- Pitch: 10.16mm
- 8 - 12 AWG
- 65A max (with AWG 8)
- 1000V AC/DC
- Contact positions:
1, 2, 3, 4, 5, 6

Positive center lock, Polarization key, 5-point contact, Extended operation temperature: -55°C to +105°C



DF62 Series

- Pitch: 2.2mm
- 22 - 30 AWG
- 4A max rated current
- 250V AC/DC
- Contact positions:
2, 3, 4, 5, 6, 7, 13, 24

With a slim & smooth profile, this in-line series can be used in tight spaces. Features include high reliability contacts, Connector Position Assurance & a protected latch variation.



DF62W Series

- Pitch: 2.2mm
- 20 - 26 AWG
- 4A max rated current
- 250V AC/DC
- Contact positions:
2, 3, 4, 5, 6, 7, 13, 24

Slim, sleek design and smooth contour combine to complete connections in tight spaces. Features include robust contact structure, secure locking mechanism and IP67 water-resistance.



DF63W Series

- Pitch: 3.96mm
- 16 - 22 AWG
- 14A max rated current
- 630V AC/DC
- Contact positions:
2, 3, 4

A compact power connector with IP67 water-resistance performance. Environmentally sealed for high-humidity applications including refrigeration, signage & outdoor fixtures.



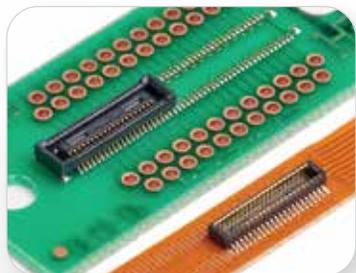


GLOBAL INNOVATIONS

Customer support is provided through all stages of development. Positioned on the forefront of interconnect technology, Hirose works closely with its customers to develop innovations in miniaturization, high-speed data transmission, signal integrity & robust mechanical design.

APPLICATIONS

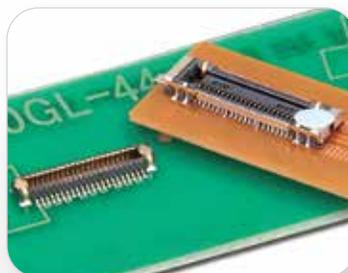
Your products demand quality and Hirose connectors provide the manufacturing precision, durability, and design intelligence that allows you to increase efficiency during installation, decrease costs, and improve your overall operations.



DF40 Series

- Pitch: 0.4mm
- Stacking heights: 1.5, 2.0, 2.5, 3.0, 3.5, 4.0mm
- Depth: 3.38mm
- Contact positions: 10-100

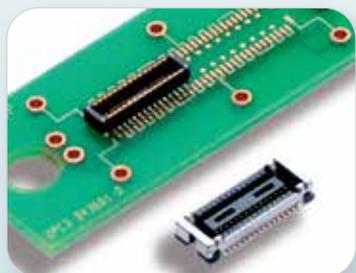
High contact reliability, positive mated click.



DF40GL Series

- Pitch: 0.4mm
- Stacking Height: 1.5mm
- Contact Position: 44
- High-speed transmission 10Gbps
- Long effecting mating length: 0.45mm

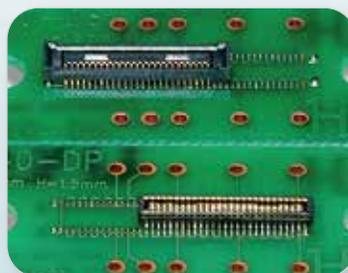
Positive lock structure with blade lock system, secure mating tactile click, supports USB 3.2 gen.2 with excellent EMI prevention.



DF40G Series

- Pitch: 0.4mm
- Stacking Heights: 1.5, 3.0, 3.5mm
- Contact Positions: 10, 30, 36, 48, 70
- Depth: 3.68mm
- Oper. Temp. -55C to +85C

Supports USB3.0 Transmission with excellent EMI prevention. Shielding prevents inward and outward noise.



DF40T Series

- Oper. Temp. -55C to +125C
- 0.3A max rated current
- 30 VAC
- Durability; 30 mating cycles
- 1.5, 2.0, 2.5, 3.0, 3.5, 4.0 Height
- Contact positions: 10, 20, 30, 40

PCI Express 4.0 (16Gbps) compliant. Supports USB3.1 Gen 2, 10Gbps transmission.

INDUSTRIAL CONNECTOR INNOVATION



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RoHS - We are committed to the development and manufacture of world-class products without sacrificing the health of people & the environment. Hirose manufactures products that are compliant with RoHS directives.



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