



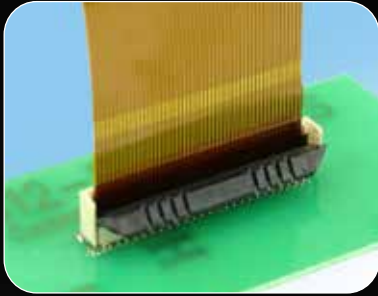
CONNECTING THE FUTURE

Industrial Connectors



HRS HIROSE
ELECTRIC
CO., LTD.

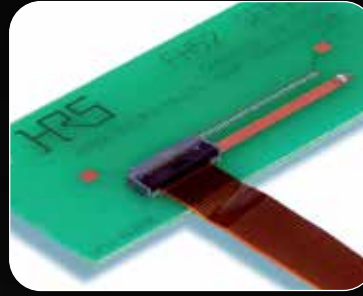
FPC Connectors



FH40 Series

- Pitch: 0.5mm
- 0.5A max rated current
- 50 VAC/VDC
- Contact positions: 10, 20, 24, 30, 40, 45, 50, 60, 64, 80
- Stacking height 5.8(mm)

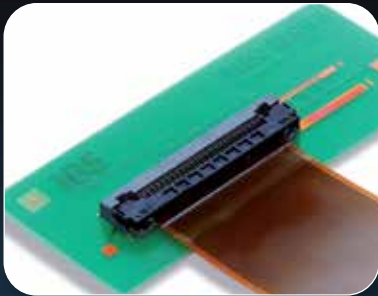
Robust structure, Vertical version, Can use same FFC/FPC as FH28



FH52 Series

- Pitch: 0.5, 1.0mm
- 0.5A max rated current
- 50 VAC/VDC
- Contact positions: 4, 6, 8, 10, 11, 12, 15, 16, 18, 20, 22, 24, 25, 26, 28, 30, 32, 40, 42, 45, 50, 60

Standard metal fittings type, Robust design, PCB patterning space underneath, Bottom contact, Halogen-free(IEC61249-2-21)



FH50 Series

- Pitch: 0.5mm
- 0.5A max rated current
- 50 VAC/VDC
- Contact positions: 28, 40, 50, 80

Double beam contacts, Robust type, Bottom contact, Halogen-free

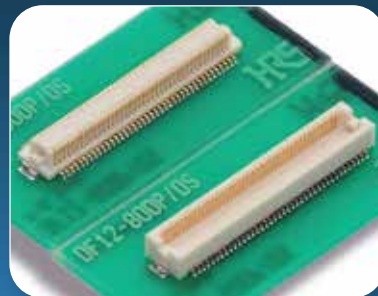


FH63 Series

- Pitch: 0.5mm
- 0.5A max rated current
- 50 VAC/VDC
- Contact positions: 30

105°C heat resistant, Satisfies severe automotive requirements, One action lock, Supports USB 3.0, Embedded Display Port 1.3

Board to Board



DF12 Series

- Pitch: 0.5mm
- 0.3A max rated current
- 50 VAC
- Contact positions: 10, 14, 20, 30, 32, 36, 40, 50, 60, 80
- Stacking height (mm) 3, 3.5, 4, 5

Optional guideposts & reinforcements hardware



FX18 Series

- Pitch: 0.8mm
- 0.5A (signal), 3A (power) max rated current
- 100 VAC
- Contact positions: 40, 60, 80, 100, 120, 140
- Stacking height (mm) 10, 15, 20, 25, 30, 35, 40, 45

High Speed up to 10+ Gbps, Supports PCI-Express ver. 2.0, Multi functional contacts



ER8 Series

- Pitch: 0.8mm
- 0.5A max rated current
- 100 VAC
- Contact positions: 10, 20, 30, 40, 50, 60, 70, 80, 100, 120
- Stacking height (mm) 7, 9, 10, 12

Compatible with SAMTEC Edge Rate®, High Speed Transmission (10Gbps)



FX23 Series

- Pitch: 0.5mm
- 0.5A (signal), 3A (power4 pin) max rated current
- 50 VAC/ 200 VDC
- Contact positions: 20/40/60/80/100/120 for signal + 4 for power source
- Stacking height (mm) 15, 20, 25, 30

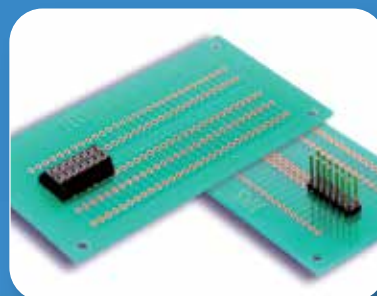
Floating structure stacking and vertical versions, 8 Gbps High Speed transmission



FX2 Series

- Pitch: 1.27mm
- 0.5A max rated current
- 125 VAC
- Contact positions: 20, 32, 40, 44, 52, 60, 68, 80, 100, 120
- Stacking height (mm) 12 - 16. (*12.1 - 14.2)

(*SMT version) Wire-to-Board options, Positive lock types

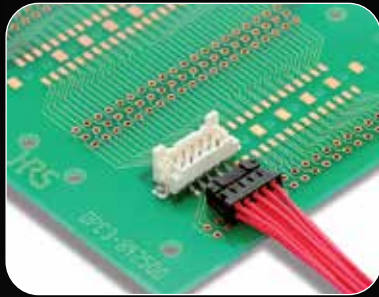


MDF7 Series

- Pitch: 2.54mm
- 3A max rated current
- 250 VAC
- Contact positions: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 30, 34, 40, 46

Board to Board Size Freely Settable, Integrity of Parts Mounted Surface, Wide Variation

Wire to Board



DF11 series

- Pitch: 2mm
- 2A max rated current
- 250 VAC
- Contact positions:
4, 6, 8, 10, 12, 14, 16, 18, 20,
22, 24, 26, 28, 30, 32, 34, 40

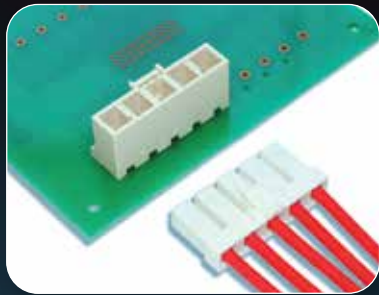
UL, CSA Compliant, In-line version available, Wide variation, Glow wire compliance IEC60695-2-11



DF57H series

- Pitch: 1.2 mm
- 26 - 34 AWG
- 1.4 mm mated height
- 2.5A max rated current
- 50 VAC/VDC
- Contact positions:
2, 3, 4, 5, 6

Low profile, Reinforced lock structure, High contact reliability, UL, CSA compliant



DF22 Series

- Pitch: 7.92mm
- 10-16 AWG
- 30A max rated current
- 1,000 VAC /VDC
- Contact positions:
1, 2, 3, 5 Single Row
4 Double Row

Positive center lock, Polarization key, Potting possible, In-line version available, UL, C-UL, TÜV compliant



DF60 Series

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

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



DF50 Series

- Pitch: 1mm
- 28-30 AWG
- 1A max rated current
- 100 VAC/VDC
- Contact positions:
2-6 (single row)
20-50 (double row)

Positive locking mechanism, Robust design, Glow wire compliant (IEC60695-2-11)



DF62 Series

- Pitch: 2-2.2mm
- 22-30 AWG
- 3A max rated current
- 250 VAC/VDC
- Contact positions:
13, 24

Positive lock, UL Pending, Waterproof version available, Operation temperature: -35°C to +105°C



DF51 Series

- Pitch: 2mm
- 22-30 AWG
- 3A max rated current
- 250 VAC/VDC
- Contact positions:
2-6 (single row)
4-30 (double row)

Positive lock, contact position surrance, potting capability possible



DF63 Series

- Pitch: 3.96mm
- 16-18 AWG
- 15A max rated current
- 630 VAC/VDC
- Contact positions:
1, 2, 3, 4, 5, 6

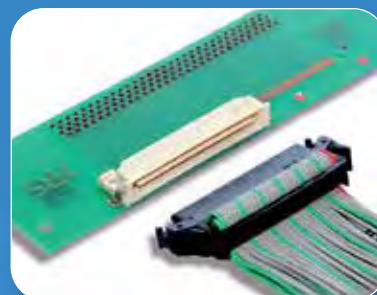
Positive center lock, Polarization key, Potting possible (combine with DF63W), UL, C-UL, TÜV compliant



DF52 Series

- Pitch: 0.8mm
- 28-32 AWG
- 2.5A max rated current
- 100 VAC/VDC
- Contact positions:
2, 3, 4, 5, 6, 8, 10, 12,
14, 15, 16, 17, 20

Low profile, Robust design, High contact lance strength, Halogen-free, Glow wire compliant (IEC60695-2-11)



FX2B Series

- Pitch: 1.27mm
- 28 AWG
- 0.5A max rated current
- 125 VAC
- Contact positions:
20, 32, 40, 52, 60, 68,
80, 100

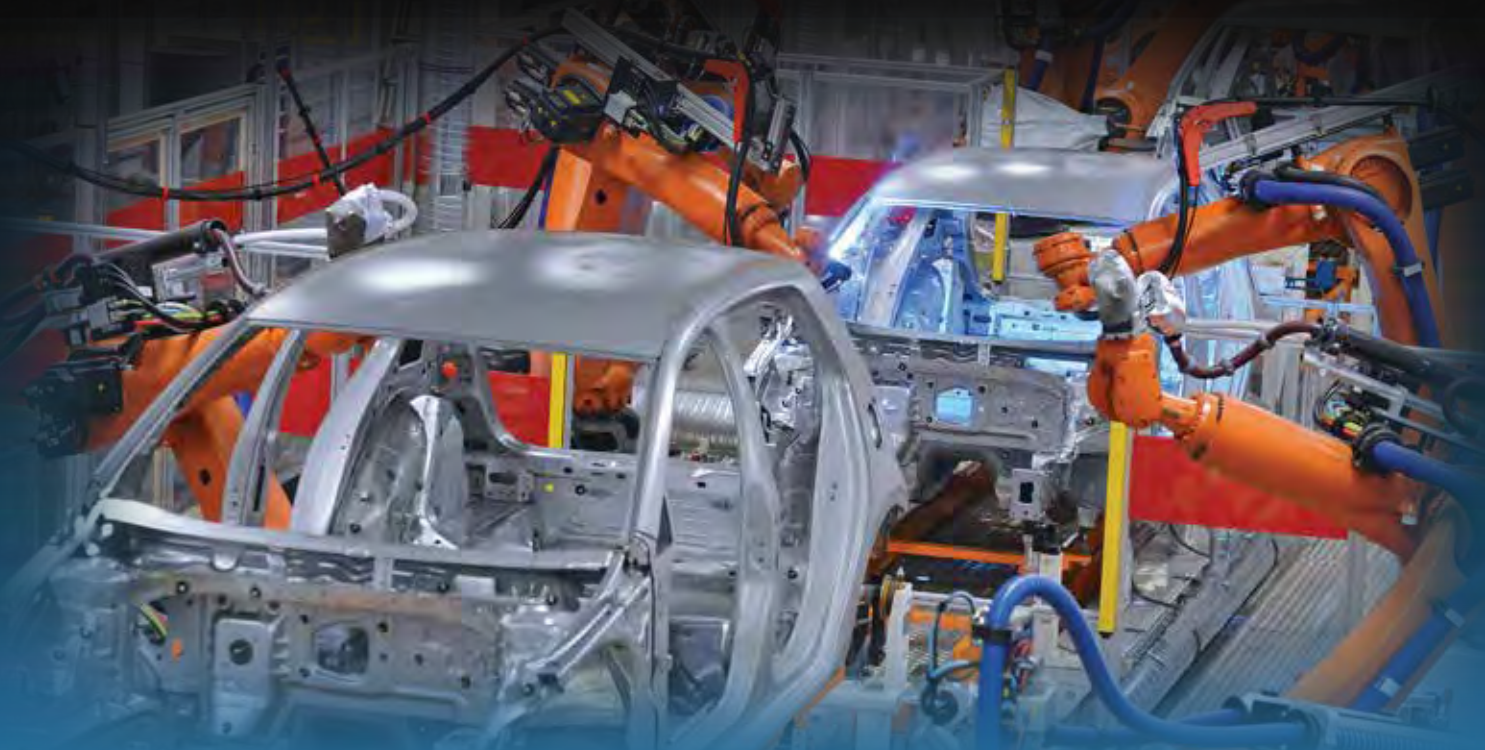
Locking options, Easy one-touch operation, Robust design

CONNECTING THE FUTURE INDUSTRIAL APPLICATIONS

Hirose provides innovative, cutting-edge solutions for your interconnect requirements. We specialize in the design, development & manufacturing of high-performance interconnect solutions supporting the automotive, consumer, medical, and industrial markets. With over 70 years experience, Hirose has established itself as a growing technology leader.

Positioned on the forefront of interconnect technology, Hirose works closely with its customers to develop innovations in miniaturization, high speed data transmission, signal integrity and robust mechanical design.

Hirose is a growing \$1.2 billion company, with approximately 4,000 employees worldwide. We utilize top-tier engineers to design high-quality, precision connectors, and we provide customer support through all stages of development.



Input/Output



DH series

- Pitch: 1 (0.5)mm
- 28 AWG (Twinax or Twisted pair cable)
- 0.5A max rated current
- 125 VAC
- Contact positions: 7, 27, 37, 51

Small interface connector for high speed transmission up to 2.5Gbps. Impedance controlled. High Speed transmission. Robust design



GT17H Series

- 24 - 28 AWG
- Contact positions: 4
- Up to 1 Gbps transmission
- Key variations available

Shielded connectors for USB, LVDS, GVIF transmission. High Speed transmission



DX*M series

- Pitch: 1.27mm
- 28 AWG
- 0.5A max rated current
- 125 VAC
- Contact positions: 14, 20, 26, 36, 50, 68, 80, 100, 110

High density interface connectors. Space saving, many variations available



HR08D Series

- 20-25 AWG
- 3A max rated current
- 200/250 VAC/VDC
- Shell size (12mm)
- Contact positions: 2, 10

IP68 waterproof. Three mating guide keys. Multi-directional cable exit

Input/Output



HR30 Series

- 5A for 3 pos / 2A for others
- 30VAC/42VDC
- Shell size (6, 7, 8mm)
- Contact positions: 3, 6, 10, 12

IP68 waterproof, small size, mating guide keys, push pull lock



PQ50S

- 12.5A/Pin (5A/Pin when all 48 pins are used)
- 300VAC/DC
- 17 to 28 AWG (Applicable cable diameter Φ 17.5mm)
- Mating cycle: 500
- Contact positions: 48

UL/C-UL/TUV certified, Light weight and robust plastic shell with special engineered plastic resin. Operating Temp: -40 to +85 degree C



HR34B Series

- 20-25 AWG
- 3, 5A max rated current
- 400 VAC/VDC
- Shell size (12mm)
- Contact positions: 4, 10

IP68 waterproof, Oilproof, Multi-directional cable exit



PQ50W

- 17-28 AWG
- 12.5A max rated current
- 300 VAC/VDC
- Contact positions: 50

IP65 waterproof, Lightweight plastic shell



HR41 Series

- 10-12, 14-16 & 14-18 AWG
- 24A max rated current
- 600 VAC/400 VDC
- Shell size (25mm)
- Contact positions: 3, 5

IP68 & IP68 waterproof, Lightning surge protection, UL TÜV qualified



QR/P6 Series

- Signal 1A / AC120V
- Power 10A / AC120V
- Rectangular miniature multi-contact connector for racks and panels
- Contact positions: 6, 12, 16, 24

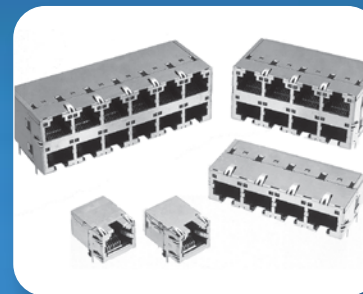
UL, CSA, TÜV qualified



iX Industrial

- 1.5A max rated current
- 50 VAC/60 VDC
- Operation temperature: -40°C to +85°C
- Contact positions: 10
- IEC Standard

Reduces installation space by 70% compared to conventional RJ45 modular solutions, enables high design flexibility. Cat.6A high-speed Ethernet for 1/10Gbit/s data transmission



TM21R Series

- Cat.6 shielded / unshielded jack
- With/without lightpipe
- Horizontal/vertical version
- Contact positions: 8

Certified according TIA/EIA-568-B.2, De-Embedded method CAT6 (250MHz), Extended operation temperature: -55°C to +85°C



LF series

- 7, 10, 13 shell size
- 10A max rated current
- 125 VAC/VDC
- Contact positions: 3,4,6,11,12,20

IP68 waterproof, EMI Shielded, Bayonet lock



ZX Series

- 1A max rated current
- 1.8A in 1 & 5
- 0.5A in 2, 3 & 4
- Contact positions: 5
- USB 2.0 cable AWG

Micro-USB connector, Many variations available

CONNECTING THE FUTURE INDUSTRIAL INNOVATION

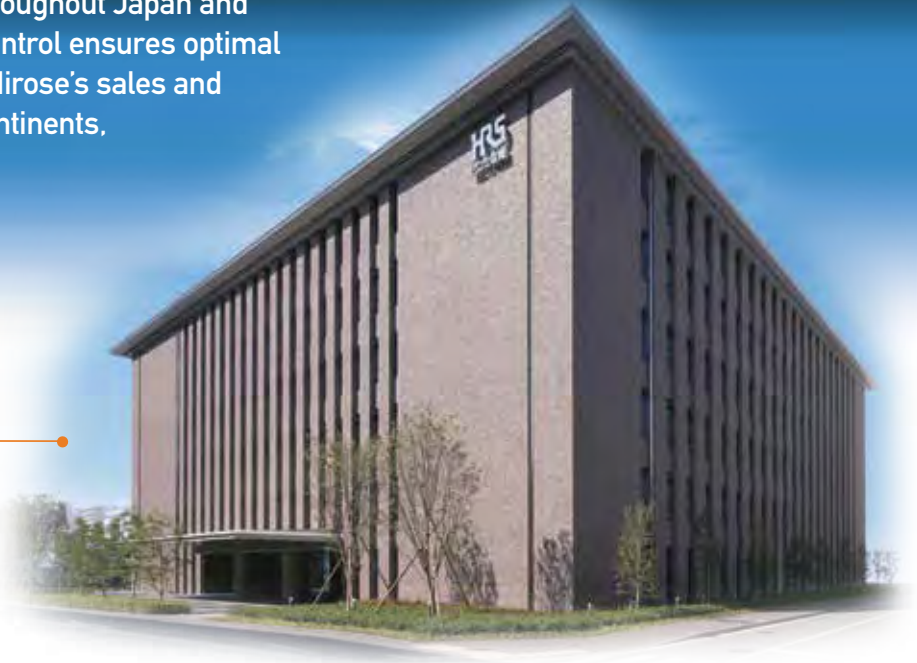
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Our manufacturing facilities are located throughout Japan and Southeast Asia, and our rigorous quality control ensures optimal and consistent performance of products. Hirose's sales and engineering offices are located on three continents, serving our customers worldwide.

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