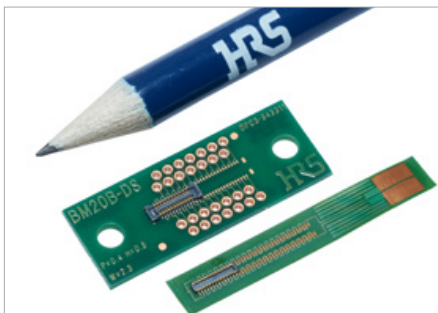


Hirose connectors for
security applications

Hirose connectors for security applications

Hirose is a world class manufacturer of connectors of exceptional quality and durability. Their innovative and forward thinking approach to design means they are well positioned to support future technologies. Avnet Abacus works with Hirose to provide well designed solutions to meet all your security application requirements from surveillance devices to automotive security, industrial robots and others. For more information, visit avnet-abacus.eu/hirose-security-connectors

BM20 SERIES BOARD-TO-BOARD AND BOARD TO FPC CONNECTORS



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Offering solutions for miniature device applications needing small footprints and very low height profiles, the BM20 Flat Printed Circuit (FPC) connector range is one of the smallest connectors in its class. Reliable contact performance, resistant to drops and shock and suitable for high density mounting.

FEATURES

- Number of contacts: 10, 16, 20, 24, 30, 34, 40, 50, 60
- Contact pitch: 0.4mm
- Mated height: 0.6, 0.8mm
- Rated current: 0.3A max.
- Rated voltage: AC-DC 30V
- Solder technology: SMT
- Temperature: -35°C to +85°C
- Mating cycles: 10

CX90M-16P SERIES USB TYPE-C™ CONNECTORS



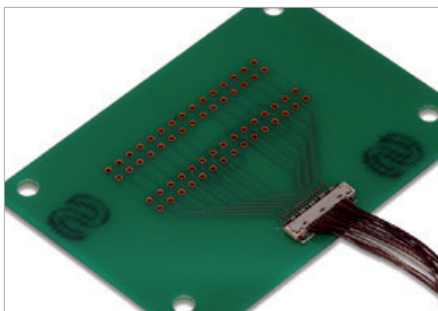
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Hirose's CX series is the next-generation USB standard USB Type-C™ (USB Type-C™ is a registered trademark of USB Implementers Forum). The receptacle features a hybrid design and utilises both surface-mount and through-hole soldering to improve mounting accuracy and minimise the board mounting space needed. The design also facilitates automated optical inspection and eases reworking of the solder terminal joints with a visible lead design.

FEATURES

- Number of contacts: 16
- Contact pitch: 0.5mm
- Rated current: 6.0A
- Mounting style: SMT
- Contact plating: gold
- Rated voltage: AC 20V
- Temperature: -40°C to +85°C
- Mating cycles: 10,000

DF36 SERIES MICRO COAXIAL CONNECTORS



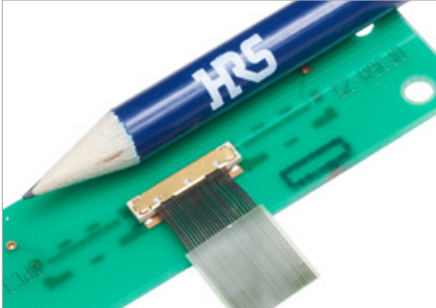
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Designed with a dependable lock, this wire-to-board micro coaxial cable connector has a low mated height and small footprint. Enhanced shielding and ground connections together with a reliable lock result in a secure electrical and mechanical connection.

FEATURES

- Number of contacts: 15, 20, 25
- Contact pitch: 0.4mm
- Mated height: 1.5mm
- Rated current: 0.25A max.
- Rated voltage: AC 30V
- Solder technology: SMT
- Temperature: -35°C to +85°C
- Mating cycles: 30
- Cable size: AWG 42-46

DF36A SERIES MICRO COAXIAL CONNECTORS



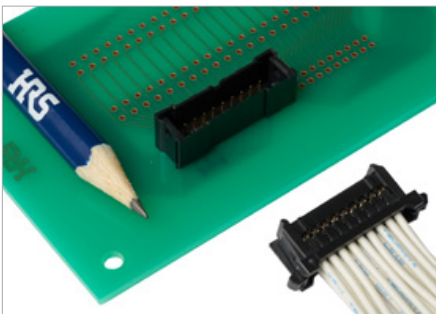
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Enhanced shielding and multi-point ground contacts ensure reliable ground connection and EMC protection. The unique contact configuration ensures a highly reliable connections with an effective mating length of 0.4mm. Tactile click confirms correctly mated connection.

FEATURES

- Number of contacts: 15, 25, 30, 40, 45, 50
- Contact pitch: 0.4mm
- Mated height: 1.5mm
- Rated current: 0.25A max.
- Rated voltage: AC 50V
- Solder technology: SMT
- Temperature: -35°C to +85°C
- Mating cycles: 30
- Cable size: AWG 42-46

DF51 SERIES WIRE-TO-BOARD CONNECTORS



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The DF51 series is part of the SignalBee product family and offers many variations for design flexibility. Single or double row versions are available in straight, right angle or in-line housing with the option of gold or tin plating. Positive lock provides clear tactile click and secures a reliable connection.

FEATURES

- Number of contacts:
 - > Single row: 2-6
 - > Double row: 4-30
- Contact pitch: 2mm
- Rated current: 2A max.
- Rated voltage: AC-DC 250V
- Temperature: -55°C to +105°C
- Mating cycles:
 - > Tin plating: 30
 - > Metal plating: 50
- Cable size: AWG 22-30



DF51K SERIES WIRE-TO-BOARD CONNECTORS



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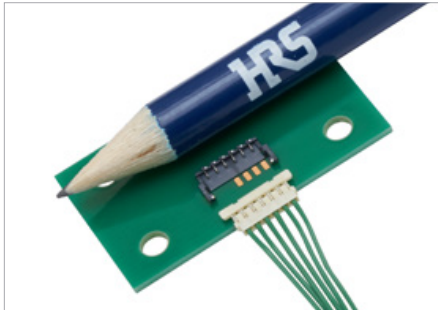
Hirose's DF51K series is part of the SignalBee product family offering robust wire-to-board connectors for applications requiring a higher degree of strength and durability. Secure mating with a clear tactile click prevents incomplete insertion whilst a centre lock design enables easy operation and high density mounting.

FEATURES

- Number of contacts:
 - > Single row: 2-6
 - > Double row: 4-30
- Contact pitch: 2.0mm
- Rated current: 0.2A max.
- Rated voltage: AC-DC 250V
- Temperature: -55°C to +105°C
- Mating cycles:
 - > Tin plating: 30
 - > Gold plating: 50
- Cable size: AWG 22-30



DF58 SERIES WIRE-TO-BOARD CONNECTORS



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The DF58 series delivers a space-saving, 1.0mm low profile, wire-to-board connector for power supply solutions in miniature applications. Highly reliable contact design and secure connection is guaranteed with the ViSe (Vertical-insertion Swing-extraction) double-locking mechanism.

FEATURES

- Number of contacts: 2,3,4,6
- Contact pitch: 1.2mm
- Rated current: 3A max.
- Rated voltage: AC-DC 100V
- Temperature: -55°C to +85°C
- Mating cycles: 10
- Cable size: AWG 28-30

FH34SRJ SERIES FPC/FFC CONNECTORS



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The FH34SRJ is a Flexible Printed Circuit (FPC) and Flexible Flat Cable (FFC) Zero Insertion Force (ZIF) connector designed with 0.5mm pitch, 1.0mm above the board top and bottom contact, offering a low profile with an easy FPC insertion and reliable electrical connection.

FEATURES

- Number of contacts: 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 30, 32, 34, 40, 45, 50
- Contact pitch: 0.5mm
- Rated current: 0.5A max.
- Rated voltage: AC-DC 50V
- Temperature: -55°C to +85°C
- Mating cycles: 20
- Back flip lock
- Top and bottom contact

FH35C SERIES FPC CONNECTORS



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Supporting high speed transmissions, the FH35C series offers back flip dual-sided Flexible Printed Circuit (FPC) connector, with a 0.3mm pitch and 0.9mm height. The series includes an improved FPC retention force achieved through the use of proprietary contact structure and a back flip actuator.

FEATURES

- Number of contacts: 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 31, 33, 35, 37, 39, 41, 45, 49, 51, 55, 61
- Contact pitch: 0.3mm
- Contact height: 0.9mm
- Rated current: 0.2A max.
- Contact position: top and bottom
- Rated voltage: AC-DC 30V
- Temperature: -55°C to +85°C
- Mating cycles: 10

Hirose connectors for security applications

FX10 SERIES BOARD-TO-BOARD CONNECTORS



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Hirose's FX10 series meets the high demand for connectors that require up to 15+ Gbps high-speed transmission capability. The series is designed for applications that need multiple stacking connectors on the same board and is part of the FunctionMAX product family.

FEATURES

- Number of contacts:
 - > 96, 120, 144, 168
 - > ground plating: 80/8, 100/10, 120/12, 140/14, 200/20
- Contact pitch: 0.5mm
- Mated height: 4-13mm
- Rated current: 0.3A max.
- Rated voltage: AC 50V
- Solder technology: SMT
- Temperature: -55°C to +85°C
- Mating cycles: 50

FunctionMAX

HR25A SERIES CIRCULAR CONNECTORS



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The HR25A series circular connectors are compact push-pull, high-density connectors with a secure locking mechanism. Connectors can be quickly disconnected by pulling on the plug release collar. The secure lock between the metal shells provides excellent ground connection for applications requiring EMI protection.

FEATURES

- Number of contacts: 4, 6, 8, 12, 16, 20
- Rated current: 1A max.
- Rated voltage: AC 30V, DC 42V
- Locking mechanism: push-on, screw
- Shell size: 7, 9
- Shell material: metal
- Temperature: -25°C to +85°C
- Mating cycles: 1,000
- Cable size: AWG 28

MS-180 SERIES COAXIAL SWITCH CONNECTORS



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Performing over wide frequency ranges these space-saving, low profile sub-miniature coaxial connectors with switch, enable secure and easy inspection of RF module functionality and high frequency circuits. With space saving and low profile design, the MS-180 series can be placed via automatic placement equipment.

FEATURES

- Power rating: 2W
- Voltage Standing Wave Ratio (VSWR) frequency range:
 - > 1.2 or less (DC to 3.0GHz)
 - > 1.3 or less (3.0 to 6.0GHz)
- Height: 0.85mm
- Temperature: -40°C to +85°C
- Mating cycles: 100
- > 1.4 or less (6.0 to 11GHz)

ASK AN EXPERT

Our Europe wide team of product specialists works closely with Hirose to offer you the highest levels of engineering support for your design. To find out more or to discuss your security application requirements, contact this team in your local language at avnet-abacus.eu/ask-an-expert

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