

# **D-Sub Connector Series Product Manual**



# About Us

## Building Technology Cornerstone

Founded in 2005, TXGA has been dedicated to technological innovation, superior quality, and sustainable production for 20 years, providing customers with high-quality connector products and services.

TXGA has developed and implemented its proprietary IFDMS system to achieve comprehensive digital management across the company. While maintaining steady growth, we deeply integrate the concept of sustainable development into our strategy, achieving a balance between business value and social responsibility. By implementing a talent-driven strategy, we foster a diverse and inclusive corporate culture, laying a solid foundation for future development.

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## D-Sub Connectors



Designed for mixed high-frequency and low-frequency signals, high-current, and high-density device interconnection, D-Sub connectors offer robust and reliable connectivity. Available with push-lock and screw-lock mechanisms for secure mating. Configurations include single-row, dual-row, triple-row, and quad-row options. Supports 1 to 78 positions. Multiple mounting options, through-hole soldering, IDC, crimping, and soldered wire termination.

**Application Industries:** Industrial Automation, Rail Transit, Communication Equipment, Medical Devices, Internet of Things (IoT), Automotive Industry



## Micro D-Sub Connectors

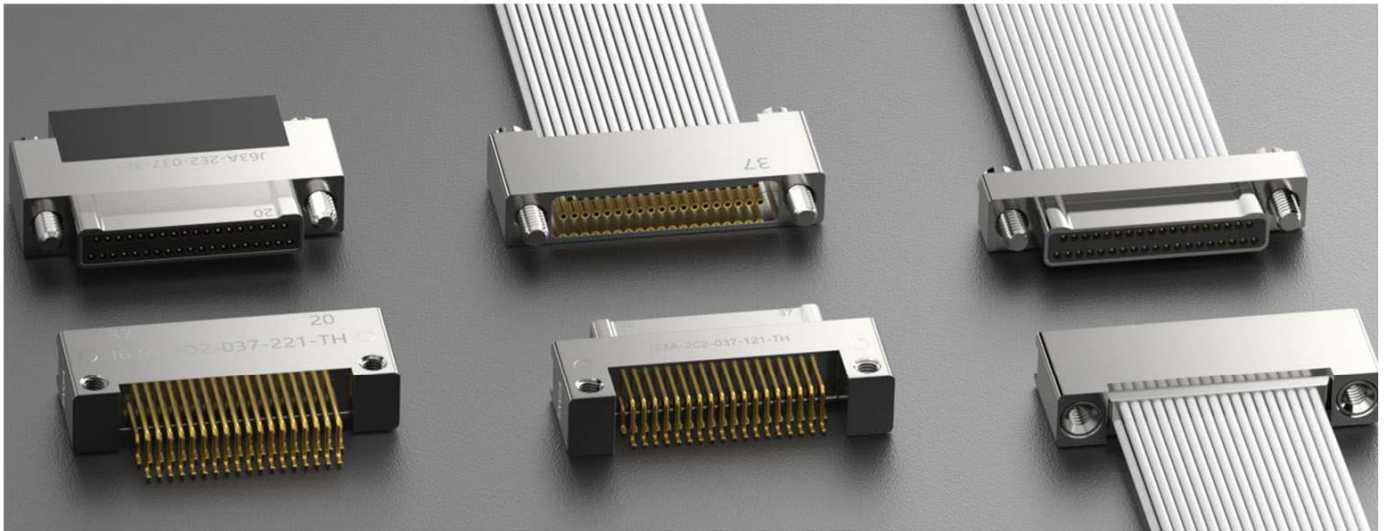


At approximately 50% the size of a standard D-Sub connector, Micro D-Sub connectors are compact yet reliable. Contact pitch 1.27mm. Available in 9, 15, 25, and 37 positions. Equipped with screw-lock mechanisms for stable connections. Twisted-wire pin design ensures stable electrical contact. Rated current 1A to 3A. Rated voltage 300V to 500V.

**Application Industries:** Navigation Systems, Radar Systems, Medical Equipment, Robotics, Unmanned Aerial Vehicles (UAVs)



## Nano-D Connectors



At only 50% the size of a Micro D-Sub connector, Nano-D Connectors are designed for high-density, compact applications. Contact pitch 0.635mm. Utilizes twisted-wire elastic pins for superior contact reliability. Screw-lock coupling ensures a secure and stable connection. Rated current 1A. Contact resistance  $\leq 21\text{m}\Omega$  Max. Insulation resistance  $> 5000\text{M}\Omega$  Min.

**Application Industries:** Test & Measurement Equipment, Automation Systems, Medical Instruments



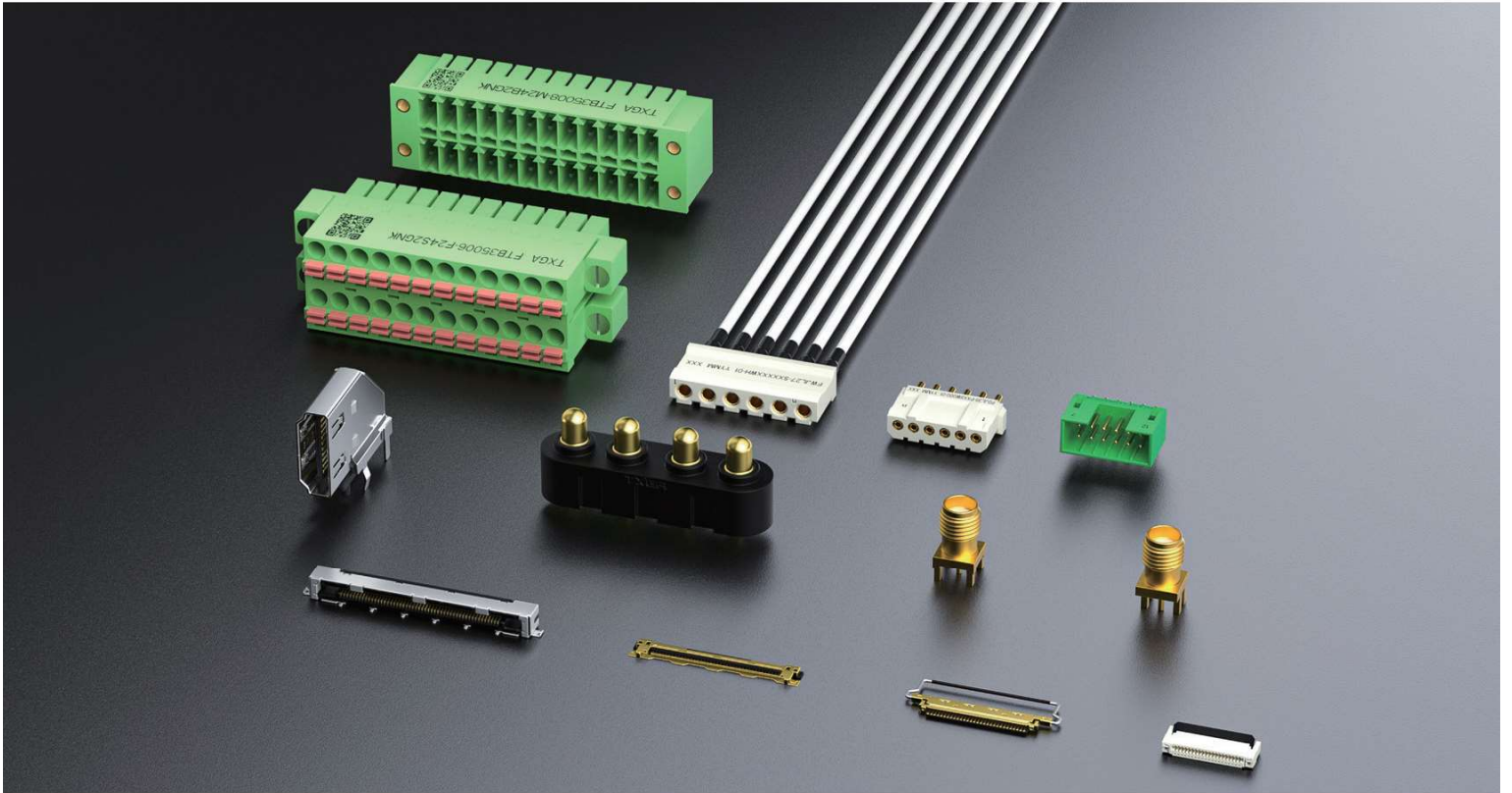
## SCSI Connectors



SCSI (Small Computer System Interface) connectors support simultaneous operation of multiple peripherals with a data transfer rate of up to 10MB/s. Hot-swappable design allows for easy device replacement. Maximum contact current 1.00A. Maximum voltage 250V. Contact pitch 1.27mm. Available in 14, 20, 26, 36, 40, 50, 68, and 100 positions.

**Application Industries:** Servers, Data Centers, Smart Devices, Medical Equipment





# RF/Signal/Power Connector Series Product Manual

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## RF Connectors



Designed for high-frequency signal transmission, RF connectors feature a shielded design to minimize interference. Frequency range up to 3GHz - 11GHz. PTFE (Polytetrafluoroethylene) dielectric, offering corrosion and aging resistance. VSWR  $\leq 1.5$  Max. Voltage range 30V to 1500V. Supports 50 $\Omega$  and 75 $\Omega$  characteristic impedance.

**Application Industries:** Wireless Communication, Medical Equipment, Unmanned Aerial Vehicles (UAVs), Portable Devices, Sensors, Test & Measurement Equipment, Automotive Electronics



## MCRF RF Connectors

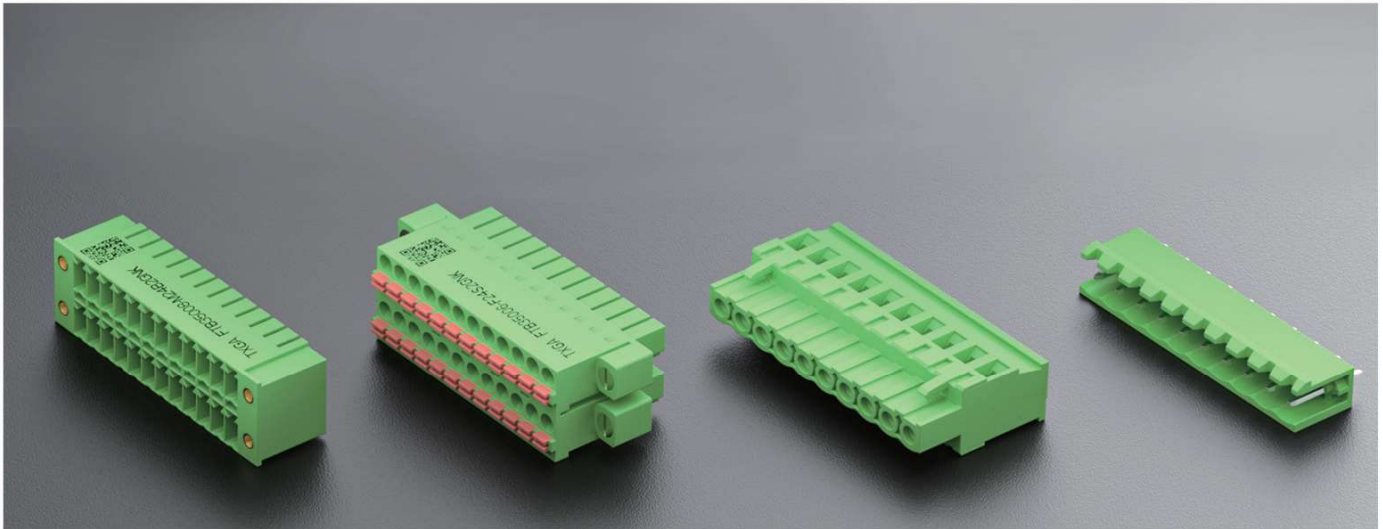


Frequency range up to 6GHz - 11GHz. Compact footprint as small as 1.2mm  $\times$  1.2mm. Minimum mating height 0.8mm. VSWR  $\leq 1.5$  Max. Voltage range 30V to 60V. Available in 1st, 3rd, 4th, and 6th-generation versions.

**Application Industries:** Wireless Communication, Medical Devices, UAVs, Portable Devices, Sensors, Test & Measurement Equipment



## Terminal Blocks

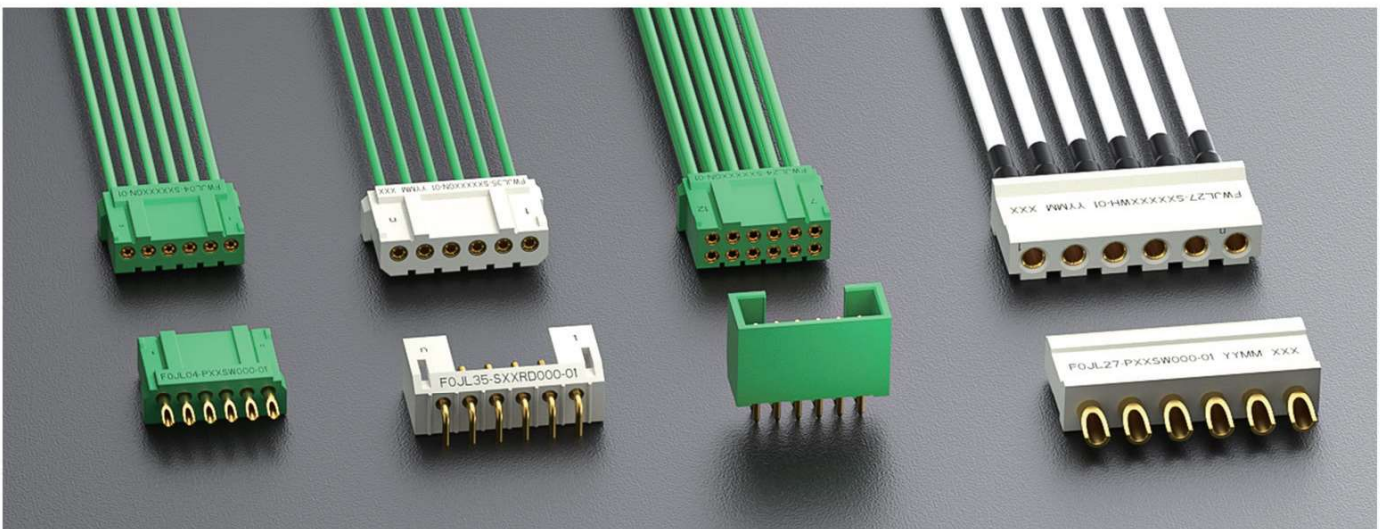


Terminal blocks are available in multiple pitch options ranging from 2.54mm to 7.62mm, with 2 to 24 pins. Maximum current capacity 30A. UL94 V-0 flame-retardant materials. Supports wire gauges from 24AWG to 10AWG. Operating temperature -40°C to +105°C, ensuring safe performance under extreme conditions.

**Application Industries:** Communication Equipment, Automotive Devices, Smart Home Systems, Industrial Automation, Energy & Power Engineering



## PCB Connectors

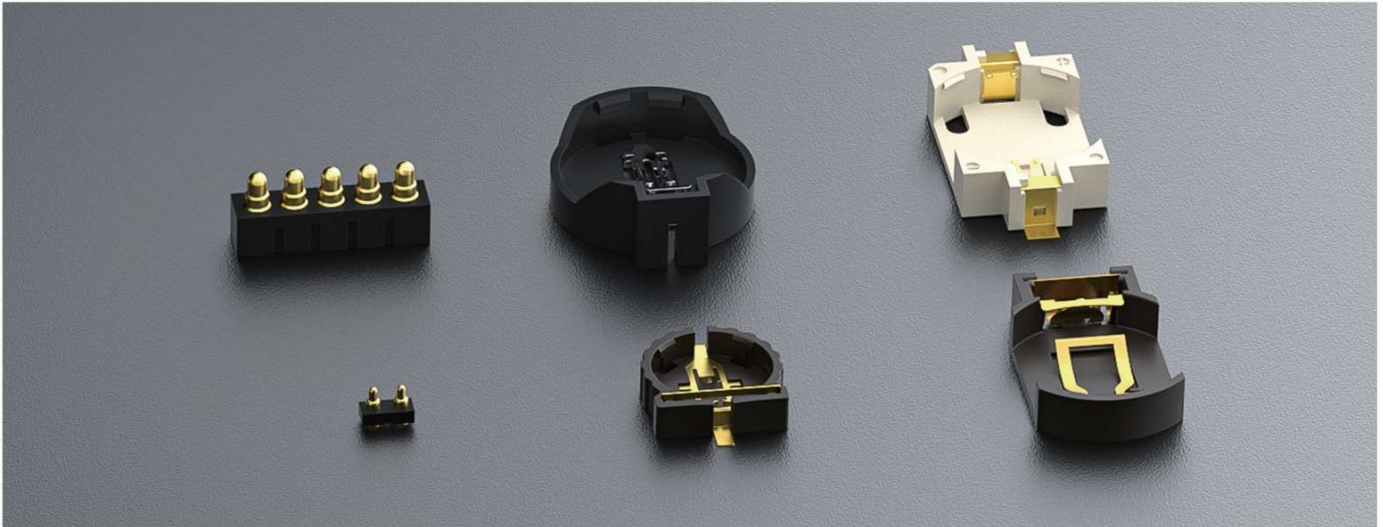


PCB connectors, available in models JL23, JL24, and JL35, pass a 96-hour salt spray test, ensuring durability. Gold-plated dual-curved socket contacts for stable mating. Single-row options 2 to 16 pins. Dual-row options 6 to 30 pins.

**Application Industries:** Communication Equipment, Automotive Electronics, Industrial Automation, Medical Devices, Rail Transit



## Battery Holders



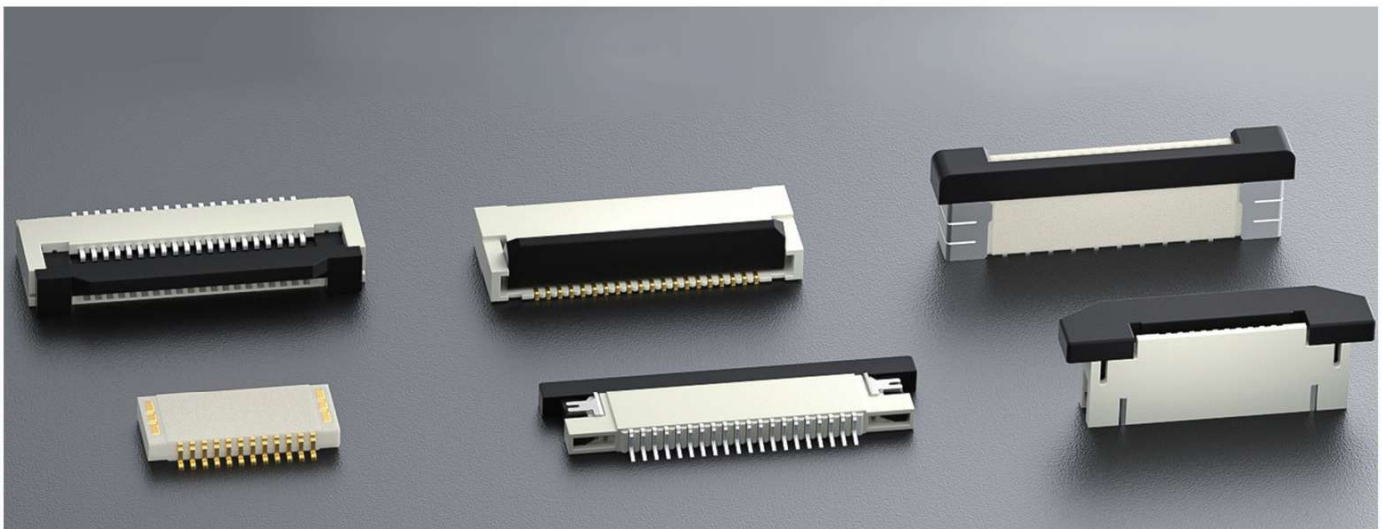
Battery holders are constructed using high-temperature-resistant engineering plastics, ensuring corrosion resistance and impact durability. Spring-loaded probe design for pogo pin battery holders, supporting 10,000+ mating cycles. Customizable height and spring force.

**Application Industries:** Industrial Sensors, Medical Devices, UAV Control Systems, 3D Printing, Smart Home Devices

    
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## FPC/FFC Connectors



Flexible Printed Circuit (FPC) and Flexible Flat Cable (FFC) connectors feature various locking mechanisms for enhanced reliability. Pitch options 0.3mm, 0.5mm, 1mm, 1.25mm. Available positions 4 to 68. Current rating 0.2A to 1A. Voltage rating 25V to 50V. Locking mechanisms Back-flip, front-flip, slide-lock, and non-locking options.

**Application Industries:** Medical Equipment, Industrial Sensors, Controllers, Automotive Electronics, Displays

    
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## HDMI Connectors



Available in Type A, Type C, and Type D, HDMI connectors support multiple high-speed transmission versions. Maximum current rating 1.5A. Maximum voltage rating 40V. Flame-retardant material UL94 V-0. Operating temperature -40°C to +105°C. Mounting options Mid-mount soldering, through-hole soldering, and surface-mount. Supported versions HDMI 1.4, HDMI 2.0, HDMI 2.1.

**Application Industries:** Smart Home Devices, Audio Equipment, In-Vehicle Systems, Servers, Industrial Automation Equipment, Medical Equipment

    
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## LVDS Connectors

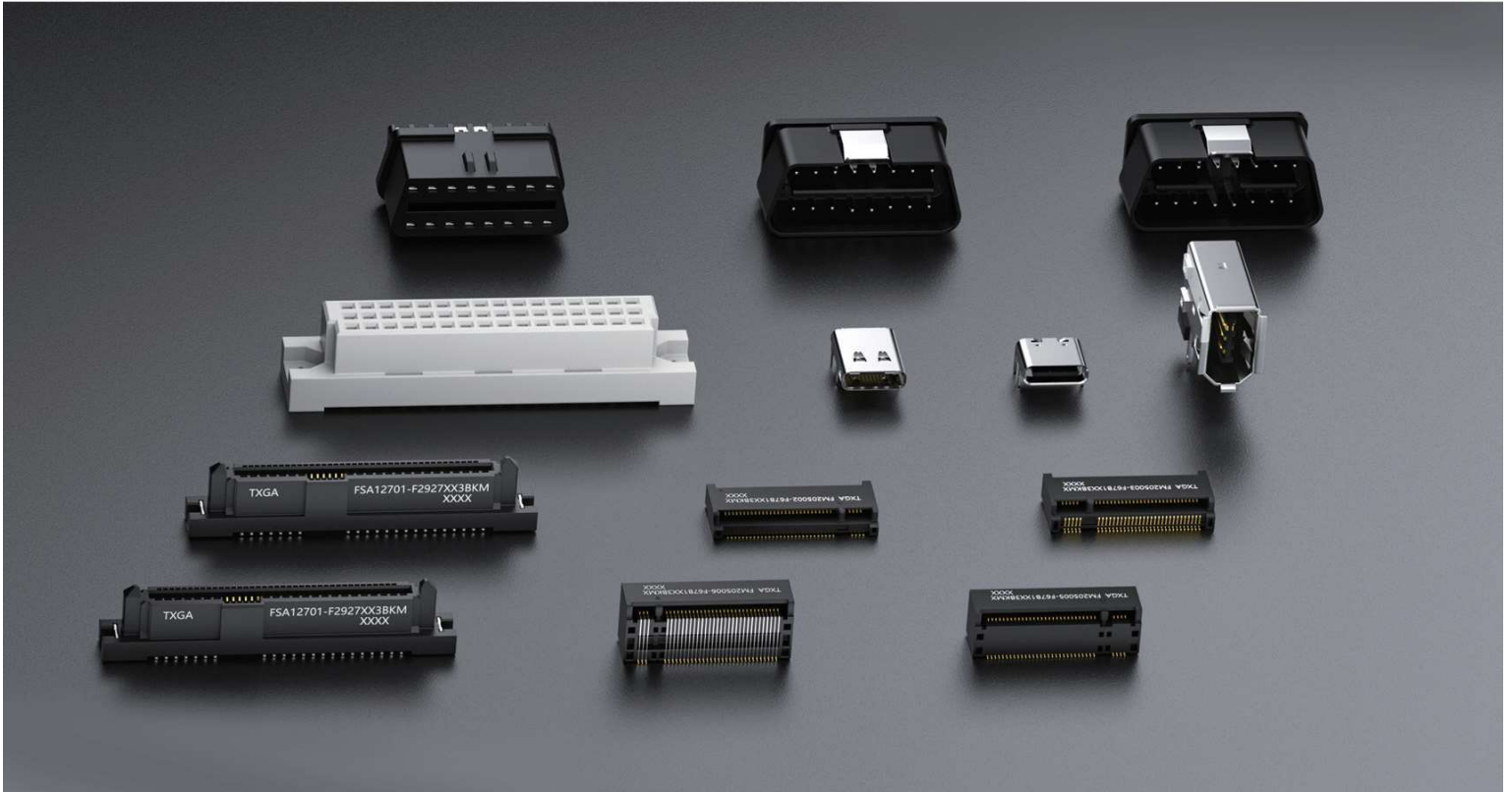


LVDS (Low Voltage Differential Signaling) connectors are designed for high-speed data transmission while saving PCB space. Pitch 0.5mm. Available positions 30pins, 40pins, and 51pins. Current rating 0.5A. Voltage rating 50V to 100V. Mounting options Surface-mount and wire-soldered versions. Ultra-low profile 3.75mm height.

**Application Industries:** Medical Equipment, Displays, Automotive Electronics, Industrial Control Systems

    
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# Data Transmission Connector Series Product Manual

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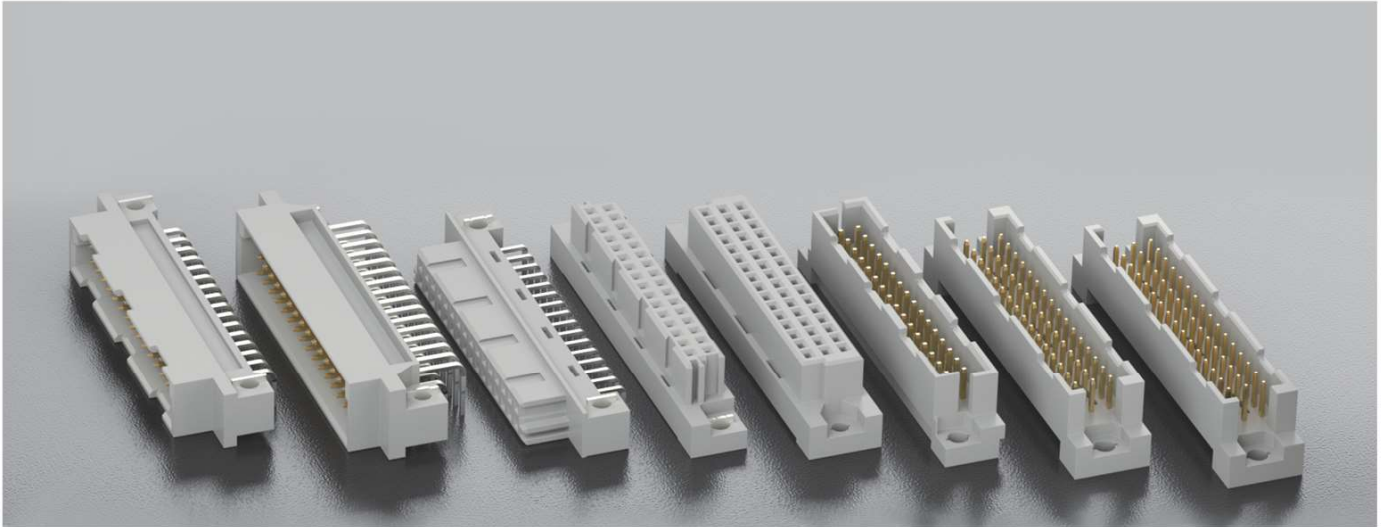


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# DIN 41612 Connectors



Compliant with IEC 60603-2 standards, DIN 41612 connectors feature a 2.54mm contact pitch. Dual-row terminals Available in 16, 20, 32, 48, and 64 positions. Triple-row terminals Available in 16, 24, 30, 32, and 96 positions. The connector body is designed with reinforced rib structures, ensuring high structural stability and reliability.

**Application Industries:** Communication Equipment, Industrial Control, Rail Transit, Data Centers, Power Engineering, Base Stations



# Memory Module Sockets



M.2 Connectors 0.5mm pitch, available in heights ranging from 3.2mm to 8.5mm. PCIe Connectors 1mm pitch, with transmission speeds up to 32GT/s. Mini PCIe Connectors Data transfer rates up to 4Gbps. SAS Connectors Compliant with SAS 4.0, supporting transmission speeds up to 24Gbps. DDR Connectors Offering a maximum bandwidth range of 3200MHz to 6400MHz, meeting various application requirements.

**Application Industries:** Solid-State Drives (SSD), Servers, Switches, Artificial Intelligence, Industrial Measurement Equipment



## USB Connectors

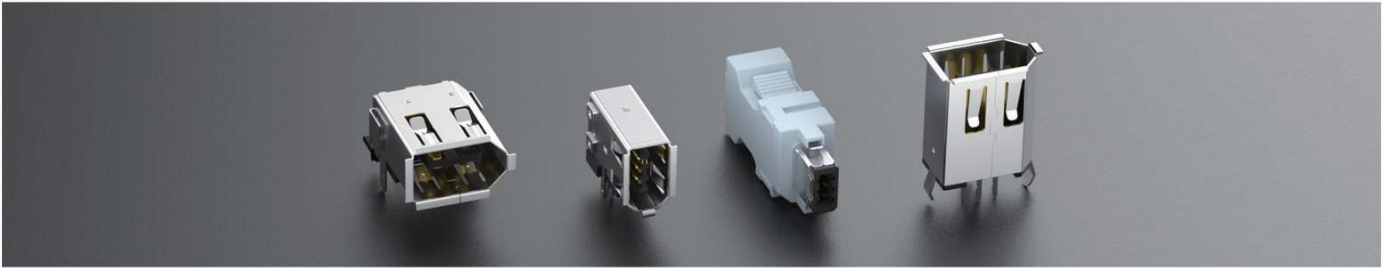


USB connectors enable the expansion of external peripherals without occupying a computer's parallel or serial ports. Available in multiple versions, supporting different transmission speeds and form factors. USB 3.0 Backward compatible with USB 2.0 and USB 1.1 devices. Waterproof USB Connectors Rated IP66/X7/68 for enhanced protection in harsh environments.

**Application Industries:** Smart Terminals, Medical Devices, Industrial Automation Equipment, Data Centers, Robotic Control Systems



## IEEE 1394 Connectors



Designed with a six-wire transmission structure, IEEE 1394 connectors support data transfer rates of up to 400Mbps and provide power supply capabilities for external devices. Available in 6 positions. Rated current 1A to 1.5A. Rated voltage 30V to 40V. Flame retardancy UL94 V-0. Supports hot-swapping functionality.

**Application Industries:** Oscilloscopes, Logic Analyzers, Industrial Automation, Data Centers, Communication Networks



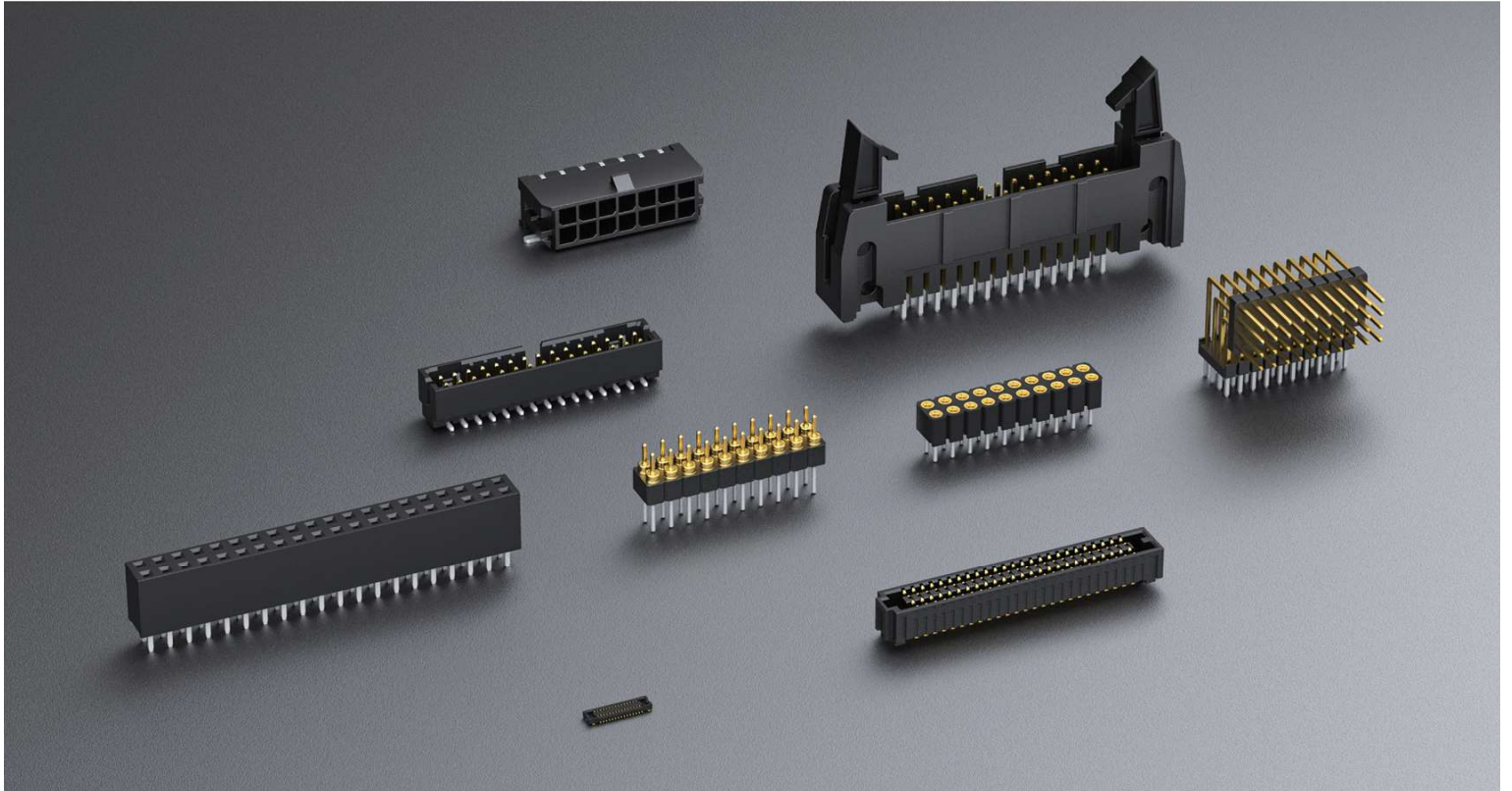
## OB D Connectors



Compliant with the SAE J1978 automotive diagnostic protocol, OB D connectors are manufactured with UL94 V-0 flame-retardant materials. Integrated spring clip structures ensure stable mating. The OB D device housing features a snap-fit design for easier assembly. Available in six configurations Female Plug, Male Plug, Male Plug with PCB Mount, OB D Male to OB D Female, OB D Male with Spring Clip to OB D Female, OB D Male to DB15 Dual-Row Female.

**Application Industries:** OB D Terminals, OB D Diagnostic Equipment, In-Vehicle Systems





# Rectangular Connector Series Product Manual

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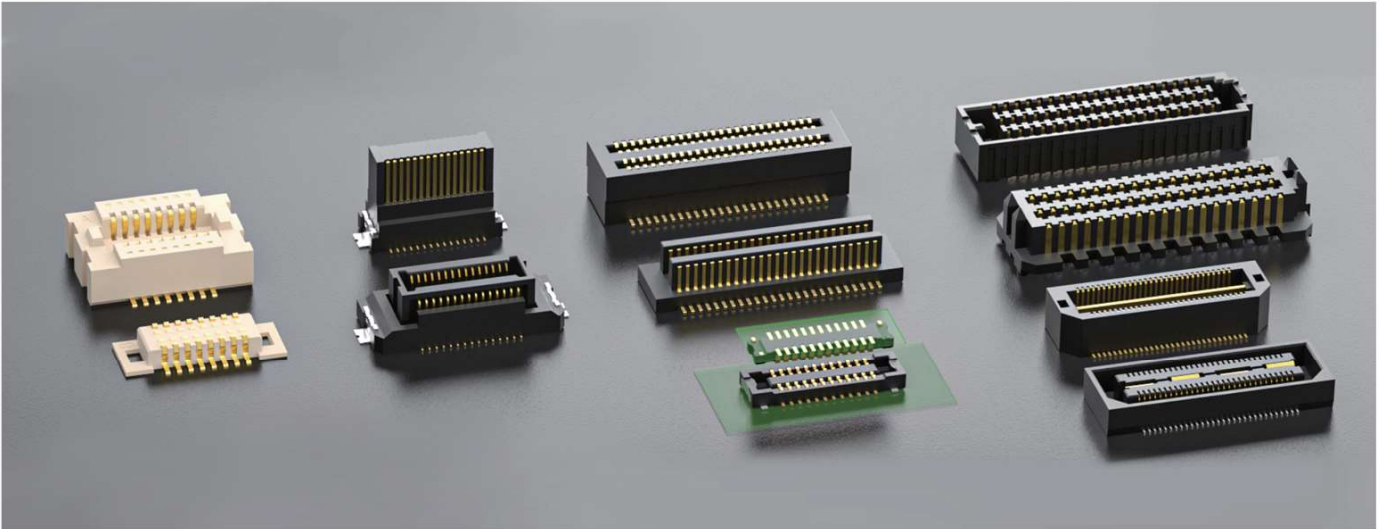


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## Board to Board Connectors



Available with pitch options ranging from 0.35mm to 2.54mm and pin counts from 6 to 500 positions. These connectors support current ratings from 0.3A to 5A and voltage ratings from 30V to 240V. Transmission speeds are offered at 15Gbps, 28Gbps, and 56Gbps, ensuring efficient data transfer between PCB boards.

**Application Industries:** Industrial Automation, Medical Equipment, Energy & Power Engineering, Smart Buildings, Smart Homes, Communication Equipment, Rail Transit



## Wire to Board / Wire to Wire Connectors

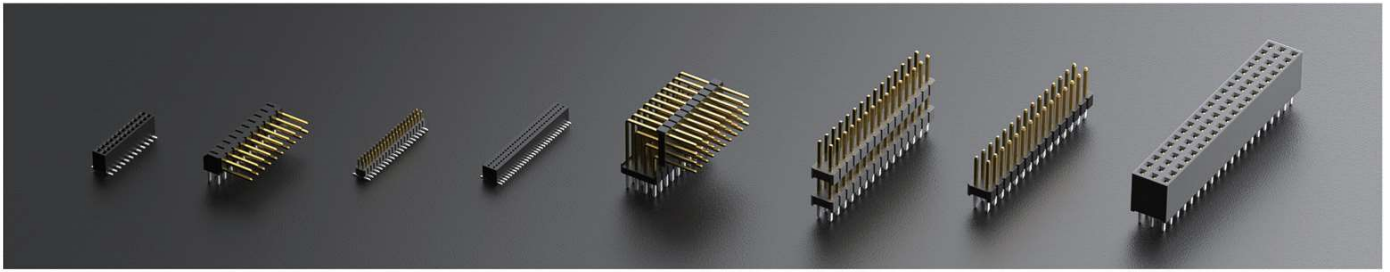


Single-row terminals Support 1 to 30 positions, with a pitch range of 0.8mm to 2.54mm. Double-row terminals Support 2 to 50 positions, with a pitch range of 1mm to 6.35mm. Triple-row terminals Support 9 to 15 positions, with a pitch range of 4.5mm to 6.35mm. Equipped with snap-lock mechanisms for enhanced mating stability.

**Application Industries:** Drones, Medical Equipment, Communication Equipment, Automotive Devices, Smart Buildings



## Pin Headers / Female Headers

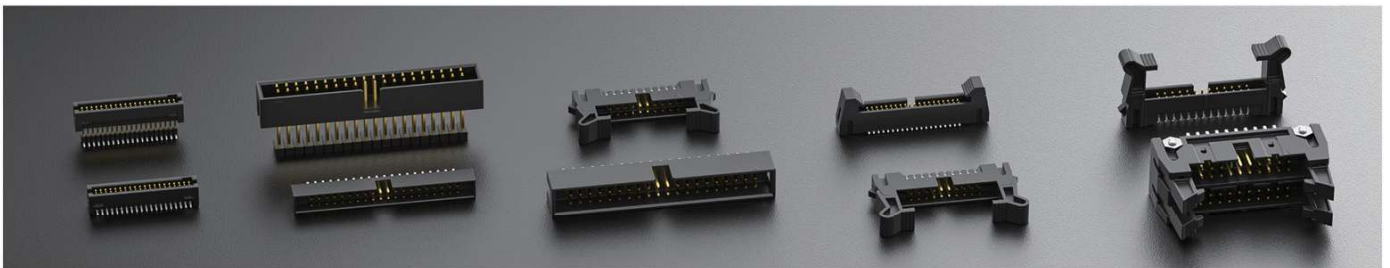


Available in 1 to 160 positions, with pitch options ranging from 0.8mm to 5.08mm. Configurable in single-row, double-row, triple-row, and four-row layouts. Current rating 1A to 5A. Flame retardancy UL94 V-0. Operating temperature range -40°C to +125°C.

**Application Industries:** Industrial Sensors, Controllers, Automotive Devices, Medical Equipment, Smart Homes



## Box Headers / IDC Connectors

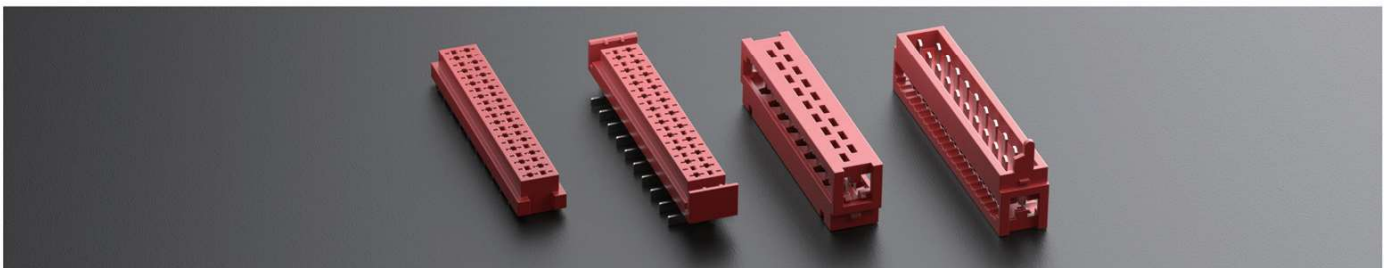


Latching box header connectors feature an ear-lock structure for secure connections. Standard box header connectors eliminate side latches for easy insertion and removal. Current rating 1A to 4A. Pitch options 1.27mm, 2mm, and 2.54mm, available in 6 to 100 positions.

**Application Industries:** Communication Equipment, Industrial Automation, Computers, Medical Equipment, Rail Transit



## Micro Match



Terminals adopt an elastic structure to absorb environmental vibrations, reducing friction between contacts and pins. Pitch 1.27mm, available in 4, 6, 8, 10, 12, 14, 16, 18, and 20 positions. Flame retardancy UL94 V-0. Available in through-hole soldering, IDC, and surface-mount installation options.

**Application Industries:** Automotive Devices, Building Control Systems, Alarm Systems, Robotics, Automation Control





# Network Interface Connector Series Product Manual

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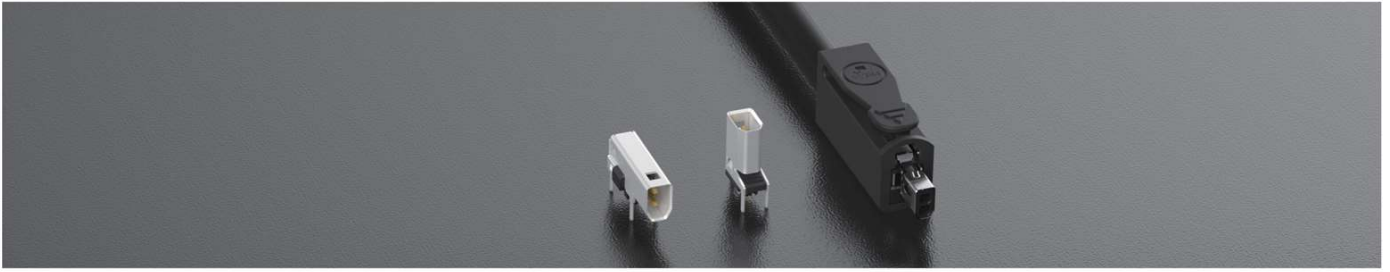


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## Single Pair Ethernet (SPE) Connectors



SPE connectors comply with the IEC 63171-2 (IP20) standard and are 20% the size of a standard RJ45 connector. Dual-shielded cable design effectively reduces signal interference. Rated current 4A; Rated voltage 72V. Available in 90° and 180° PCB-mount sockets and wired plug versions. Transmission distance of 40m supports 1Gbit/s, while 1000m supports 10Mbps.

**Application Industries:** Industrial Sensors, Actuators, Industrial IoT (IIoT), Robotics, Smart Buildings, Rail Transit, Surveillance Cameras, Communication Systems



## Mini I/O Connectors

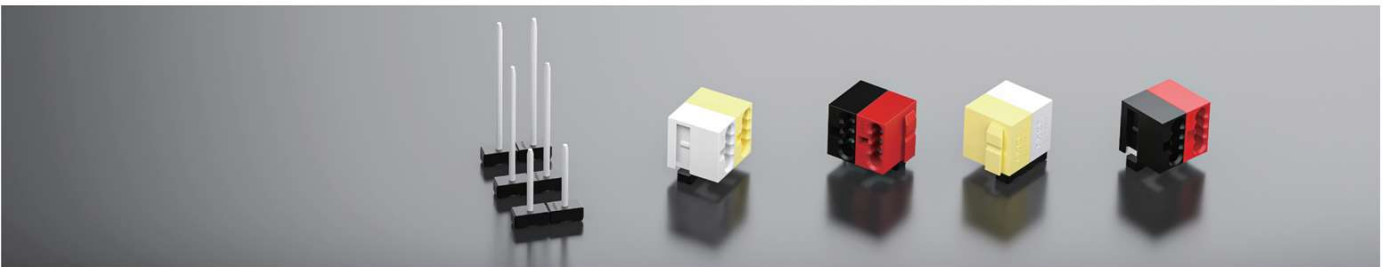


Mini I/O connectors comply with the IEC 61076-3-122 standard and are only 25% the size of a standard RJ45 connector. Dual-contact spring structure with a 1.27mm pitch. Shielded plug design minimizes EMI/RFI interference. Supports transmission bandwidth from 100Mbps (Cat5e) to 1000Mbps (Cat6A). Available in D-shaped and U-shaped interface types.

**Application Industries:** Industrial Communication, Robotics, CNC Machines, Programmable Logic Controllers (PLCs)



## KNX Terminal Blocks

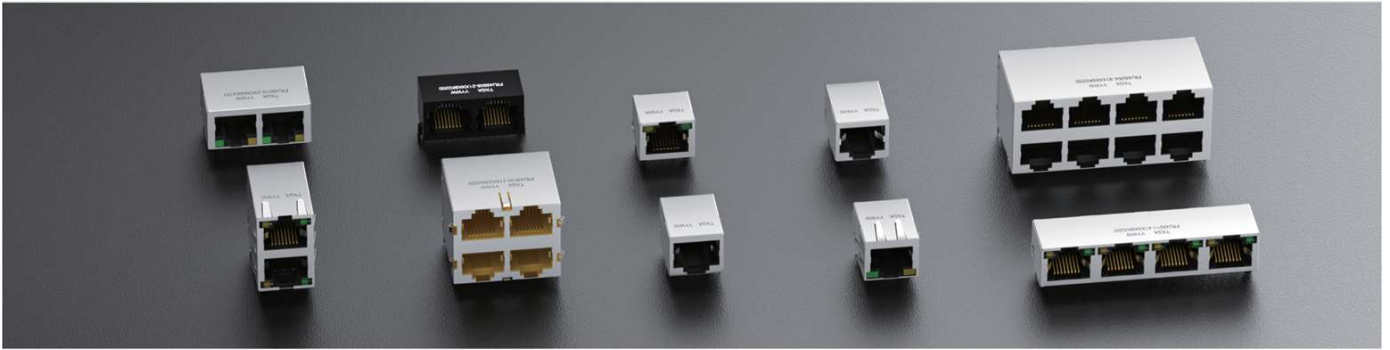


KNX terminal blocks comply with the EN/IEC 60998-2-2 standard and feature a spring clamp structure for tool-free wire insertion. AWG22 wire (0.34mm<sup>2</sup> cross-section) Current rating 7A, Voltage rating 150V. AWG18 wire (0.75mm<sup>2</sup> cross-section) Current rating 9A, Voltage rating 130V. Available pin lengths 9.6mm, 16.6mm, 23mm, 25.1mm.

**Application Industries:** Smart Buildings, Smart Homes, Internet of Things (IoT)



# RJ45 Network Connectors



RJ45 connectors conform to the Ethernet IEEE 802.3 standard and support CAT5e. Shielded and unshielded options available to reduce EMI/RFI interference. Built-in electrical module ensures stable voltage output. Port configurations Single-port, dual-port, four-port, and eight-port. Mounting options Top-entry, side-entry, and recessed PCB-mount.

**Application Industries:** Network Switches, Servers, IoT Devices, Medical Equipment, Communication Equipment, Sensors

    
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# Circular Connectors (X-Coded & Y-Coded)



## **X-Coded Circular Connectors:**

Comply with IEC 61076-2-109 and feature an IP67 protection rating. Excellent shielding to protect against EMI/RFI interference. 8-position design, data transmission rates up to 10Gbps, supporting Ethernet CAT6A. Rated current 0.5A, Rated voltage 50V-60V.

## **Y-Coded Circular Connectors:**

Comply with IEC 61076-2-113 and feature an IP67 protection rating. Excellent shielding to protect against EMI/RFI interference. Available in 6-position and 8-position designs, data transmission rates up to 100Mbps, supporting hybrid Ethernet CAT5. Rated current 0.5A-10A, Rated voltage 50V.

**Application Industries:** Sensors, Actuators, Medical Devices, Rail Transit, Robotics, Servo Drives, Industrial Ethernet Switches

    
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## M8 Circular Connectors



Compliant with IEC 61076-2-104 standards, the M8 circular connectors offer IP65/IP68 protection. Available in shielded and unshielded versions, the shielded models effectively reduce EMI and RFI interference, ensuring stable and reliable signal transmission. With a rated current of 1.5A to 4A and a rated voltage of 30V to 63V, these connectors come in A, B, and D coding options and support through-hole soldering and wire soldering installation methods.

**Application Industries:** Sensors, Actuators, Measurement Equipment, Power Equipment, Traffic Signal Systems

    
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## M12 Circular Connectors



The M12 circular connector series features an IP67/IP68 protection rating and provides shielding against EMI and RFI interference. Rated for 0.5A to 6A current and 30V to 250V voltage, these connectors are available in A, B, D, X, and Y coding options. Multiple wiring methods are supported, including through-hole soldering, screw termination, and wire soldering.

**Application Industries:** Sensors, Actuators, Industrial Ethernet & Fieldbus Systems

    
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## M5 Circular Connectors



Compliant with IEC 61076-2-105 standards, the M5 circular connectors are available in straight and right-angle cable-mount options. With an external thread diameter of only 5mm, they are ideal for compact device installations. Featuring an IP68 protection rating, they are available in 2, 3, and 4 positions.

**Application Industries:** Sensors, Industrial Automation, Medical Equipment, Communication Devices, Measurement Equipment

    
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## M16 Circular Connectors



Compliant with IEC 61076-2-106 standards, the M16 circular connectors are available in 7 and 8 positions, with a rated current of 5A to 7A depending on the pin count. Featuring multi-layer waterproof sealing rings, these connectors achieve an IP68 protection rating and pass 1,000-hour salt spray testing, ensuring excellent durability in harsh environments.

**Application Industries:** Industrial Control, Sensor & Actuator Technology, Automation Instruments, Communication Equipment, Test & Measurement Systems, Rail Transit, Energy & Power Engineering

    
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## 7/8" Connectors



The 7/8" connectors feature a threaded locking mechanism with an integrated anti-vibration gasket on the plug side, effectively preventing loosening and ensuring a secure connection. The cables are made of STOOV American-standard power cords, offering resistance to acids, alkalis, UV exposure, oil, and mildew. Available in 3, 4, and 5 positions.

**Application Industries:** Industrial Automation, Energy & Power Engineering, Construction Machinery

    
For more details, Scan the QR code for more details

