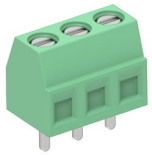
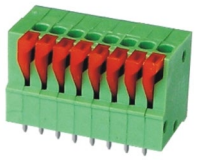
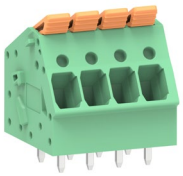
COMPARISON CHART

Terminal Blocks and Barrier Strips ›

With flexibility, secure connections and ability to withstand harsh environments, Molex Terminal Blocks and Barrier Strips offer a variety of advantages. They accommodate different wire sizes and types, making them a popular choice in many industries. By simplifying wiring connections, Terminal Blocks and Barrier Strips can help save time and money while improving safety and reliability.

PCB Terminal Blocks

The fixed-position design provides a simple and safe wire terminal for transmitting power, signal or data to a PCB. Molex offers a range of pitch sizes from 2.54 to 15.00mm.

		ELECTRICAL PERFORMANCE	DESCRIPTION
Screw Type		Voltage: Up to 600V Current: 5.0 to 120.0A Wire Sizes: 30 to 2 AWG (0.05 to 35.00mm² nominal)	• The screw-type terminal block is a proven design offering maintenance-free performance even in harsh environments. • Each circuit opening is “wire-ready” for simplified wire installation. • Once wire is inserted, the screw is torqued to a specified mechanical setting to assure safe operation.
Spring Termination Type			• Spring termination-type terminal blocks deliver fast, tool-less wire connections. • Each circuit has a Stainless Steel spring that securely traps the wire termination. • Individual housing circuits can be color coded for intuitive and fast pairing with color-coordinated wire jackets.
Lever Activated Type			• The lever-activated terminal block is among the most intuitive methods of connecting wires to the PCB. • Each circuit has a lever that the operator simply lifts to insert the wire and then closes to secure the termination. • Each circuit has a Stainless Steel spring that securely traps the wire termination once the lever is moved to the closed position.

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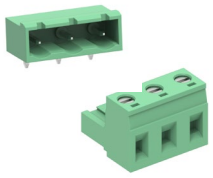
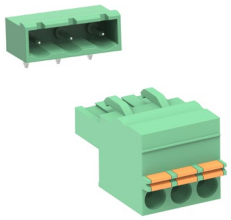
PCB Terminal Block Connectors

The fixed-position design provides a simple and safe wire terminal for transmitting power, signal or data to a PCB. Molex offers a range of pitch sizes from 2.54 to 15.00mm.

		ELECTRICAL PERFORMANCE	DESCRIPTION
Screw Type		Voltage: Up to 600V Current: 5.0 to 115.0A Wire Sizes: 30 to 2 AWG (0.05 to 35.00mm² nominal)	• The screw-type terminal block connector is a proven design for mated interconnects that offers maintenance-free performance even in harsh environments. • Each circuit opening is “wire-ready” for simplified wire installation. • Once wire is inserted, the screw is torqued to a specified mechanical setting to assure safe operation. • The other half of the interconnect assembly is a header that mates with the terminal block.
Spring Termination Type			• Spring termination-type terminal blocks deliver fast, tool-less wire connections. • Each circuit has a Stainless Steel spring that securely traps the wire termination. • Individual housing circuits can be color coded for intuitive and fast pairing with color-coordinated wire jackets. • The other half of the interconnect assembly is a header that mates with the terminal block.

Terminal Strips

The terminal strip is a simple wire-to-wire terminal block system accommodating thousands of possible solutions for electrical terminations.

		ELECTRICAL PERFORMANCE	DESCRIPTION
Wire-to-Wire Type		Voltage: Up to 600V Current: 20.0 to 85.0A Wire Sizes: 22 to 4 AWG (0.34 to 25.00mm² nominal)	• Terminal strips can be used in free-hanging or panel-mount applications. • Screws are recessed in silos for a touch-safe design. • Pitch sizes range from 8.00 to 16.50mm to provide a wide range of options for current ratings of 20.0 to 85.0A and up to 600V operation. • Each pitch size has a range of 2 to 12 circuits. • A single terminal strip can be divided into two or more parts by cutting between circuits with a hand saw.

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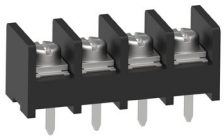
Terminal Blocks and Barrier Strips ›

Barrier Strips

Barrier strips feature large screw terminals for simple and safe field termination of wire to transmit power in wire-to-wire or wire-to-board applications.

		ELECTRICAL PERFORMANCE	DESCRIPTION
Wire-to-Board Type		Voltage: Up to 600V Current: 10.0 to 50.0A Wire Sizes: 18 to 8 AWG (0.75 to 10.00mm² nominal)	• The single-row design comes in a range of pitch sizes from 6.35 to 12.70mm. • The barrier strip is suitable for up to 600V and up to 50.0A of current. • This design is ideal for use with ring or fork terminals crimped to the wire.
Wire-to-Wire Type			• The panel-mountable, dual-row design comes in pitch sizes from 9.53 to 11.15mm. • The barrier strip is suitable for up to 600V and up to 30.0A of current. • This design is ideal for use with ring or fork terminals crimped to the wire.

High-Current Universal Clamp Terminal Blocks

High-Current Universal Clamp (HCUC) terminal blocks feature very high current ratings with a DIN rail or panel-mount interface.

		ELECTRICAL PERFORMANCE	DESCRIPTION
Wire-to-Wire Type		Voltage: Up to 1,000V Current: 120.0 to 380.0A Wire Sizes: 6 AWG to 500 MCM (16.00 to 240.00mm² nominal)	• HCUC terminal blocks provide wire-to-wire connections uniquely suited for use with either Copper or Aluminum wires. • Terminal blocks are designed for mounting on a DIN rail or can be secured to a panel with screws. • High-voltage variants are available in 600V or 1,000V per UL or 1,000V per IEC. • High-current variants are available for 150.0 to 380.0A per UL or 160.0 to 425.0A per IEC. • All variants are available in multiple color options for coordinating with wire color coding.

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MARKETS AND APPLICATIONS

Electrical and Power
Controller boards
Distributed power systems
Elevator controls
Flow sensors and transmitters
Inverters
Lighting controls
Switching equipment

Industrial Automation
Cellular base stations
Factory and building automation
HVAC equipment
Instrumentation
Motion and process controls
Scales and weighing equipment
Security, alarm and surveillance equipment
Temperature and pressure controls

Power for Data Center
Data acquisition
Power supplies
Signal conditioning
Storage networking

Automotive
Fuel cells
Motor inverters
Motor drives
Motor control systems
Vehicle charging stations

Commercial Vehicles
Electric trains
Construction equipment

Home Energy Storage
Switch gear
Power distribution panels and cabinets
Solar power systems

Inverters

Factory and Building Automation

Power Supplies

Vehicle Charging Stations

Construction Equipment

Power Distribution Panels and Cabinets

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