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# /HIGH-POWER SOLUTIONS

**From state-of-the-art data centers to smart factories, safe and reliable power is crucial for enabling efficient operations.**

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# /HIGH-POWER SOLUTIONS

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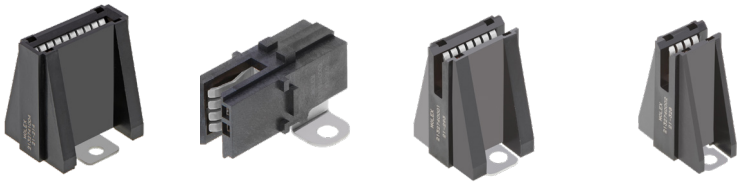
**From state-of-the-art data centers to smart factories, safe and reliable power is crucial for enabling efficient operations. Because high power solutions form the backbone of many modern power distribution networks, Molex recognizes that flexible dependability is imperative.**

Together with Avnet Abacus, Molex provides our customers with a versatile range of high-performance busbar, connector, and cable assembly solutions, backed by our 80+ years of proven experience across every major industry sector.



## FEATURED PRODUCTS

**Busbar Connectors:**



**High-Power Connectors:**

# SENTRALITY PIN AND SOCKET INTERCONNECTS

Molex's Sentrality Pin and Socket Interconnect System offers high-voltage, high-current connectivity with self-alignment features for tolerance stack-up issues. The innovative system offers board-to-board, busbar-to-board and busbar-to-busbar connector that enable powerful and reliable connections.

**Key Features:**

- **Low contact resistance**
  Provides multiple contact beams to minimize heat generation at the contact interface, resulting in optimized electrical performance.

- **Compact conical socket design**
  Allows for tighter board-to-board stack heights with shorter socket assemblies than most market equivalents using hyperbolic sockets.

Sentrality 8.00mm socket assembly using COEUR conical socket to achieve 10.00mm overall height

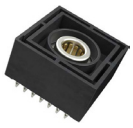
Competitor 8.00mm socket assembly using hyperbolic socket to achieve 24.00mm overall height

- **Self-aligning sockets float between wave springs**
  Allow the socket to freely move radially +/- 1.00mm within the socket assembly during mating, to help ensure no contact beam deformation.

Socket in nominal position,centered relative to socket assembly outer housing

Socket position after selfaligning to the left 1.00mm relative to socket assembly outer housing

- **Design Flexibility**
  Sentrality offers designers options for attaching sockets to different substrates. The eye-of-needle sockets and the surface mount sockets attach printed circuit boards. The screw mount sockets attach to either printed circuit boards or busbars.



**Additional Features:**

- Surface-mount pins with pick-and-place caps placed in trays
- Knurled press-fit and eye-of-needle sockets and knurled press-fit pins and screw-mount pins packed in trays
- Surface-mount sockets with pick-and-place caps are packed in tape-and-reel arrangements
- Socket assembly's flange can be positioned anywhere along the side of the part
- Top-entry socket assemblies and bottom-entry socket assemblies

# SENTRALITY PIN AND SOCKET INTERCONNECTS

**Markets and Applications:**

Telecommunication/Networking

- Servers
- Data storage units
- Power distribution units (PDUs)
- Uninterruptible power supplies
- Digital cross-connect switches
- Network routers

Industrial Automation

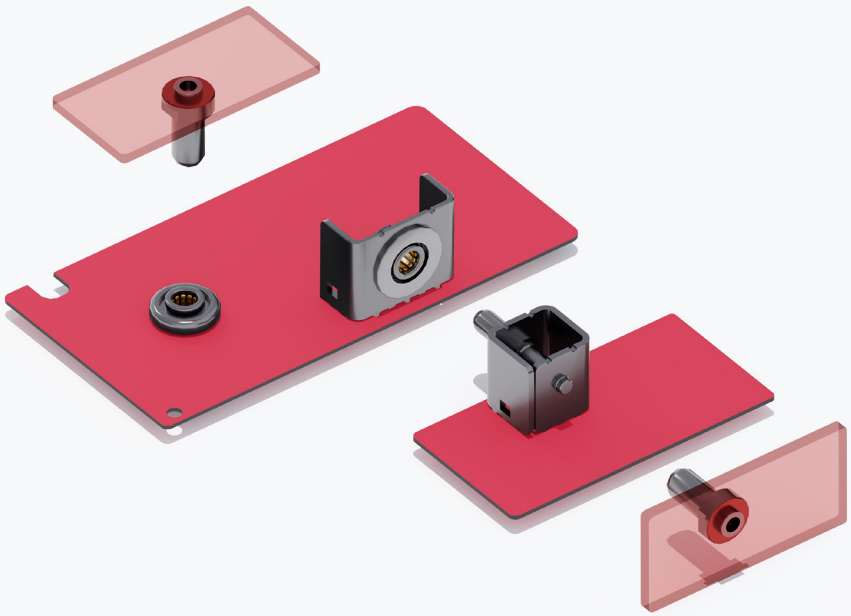
- Battery charging stations
- DC-to-AC inverters
- AC-to-DC rectifiers
- Robotics

Data Centers

- Enterprise switches
- Servers
- Data storage units
- Power shelves
- Power distribution units (PDUs)
- Uninterruptible power supplies
- Environmental control equipment

## Sentrality High-Voltage, High-Current Connectors

Board-to-Board
Board-to-Busbar
Busbar-to-Busbar



Current Rating (max.):
3.40mm: 75.0A
6.00mm: 140.0A
8.00mm: 200.0A
11.00mm: 350.0A
Voltage Rating (max.): 1,500V

Sentrality High-Voltage, High-Current Connectors
Order No. 987652-6091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# /POWERWIZE CONNECTORS

Molex's PowerWize High-Voltage, High-Current Connectors comes in two sizes, 6.00mm and 8.00mm, catering to applications with voltages up to 1,000V and currents up to 190.0A. There versatile connectors can be mounted on printed circuit boards or busbars, offering flexibility in installation.

**Key Features:**

- **Optimal current-carrying capacity**
  Offers multiple contact beams to ensure low contact resistance, low voltage drop and minimal heat generation at the contact interface.

- **Finger touch-safe receptacles**
  Designed per UL 60950 to prevent accidental contact with an energized circuit.

- **Positive locking with active latches on receptacles and barbed geometry on headers**
  Provides operators tactile and audible feedback during system integration to help ensure secure mating; helps prevent cable assemblies from backing off headers due to shock, vibration, or mishandling.

- **Low mating and unmating forces**
  Enable operators to mate and unmate cable assemblies even in hardto-reach or tight spaces.

**PowerWize Interconnects**
6.00mm Wire-to-Board/
Wire-to-Busbar Connectors

**PowerWize Interconnects**
8.00mm Wire-to-Board/
Wire-to-Busbar Connectors

# /POWERWIZE CONNECTORS

**Additional Features:**

- Reliable, high-quality eight-sided crimp profile
- Mechanically keyed and color coded with uniquely positioned ribs on header housings and matching slots on receptacles (based on connector color)
- Crimp contacts are available in a wide range of wire gauges
- Screw-mount headers attach securely to either busbars or printed circuit boards
- Field installable with battery-powered applicators
- The TPA retainer slips over the stripped wire prior to crimping and after crimping it locks into the receptacle housing

**Markets and Applications:**

Telecommunication/Networking

- 5G/6G Base Stations
- Servers
- Data storage units
- Power distribution units (PDUs)
- Uninterruptable power supplies (UPSs)
- Digital cross connect switches
- Network routers

Industrial

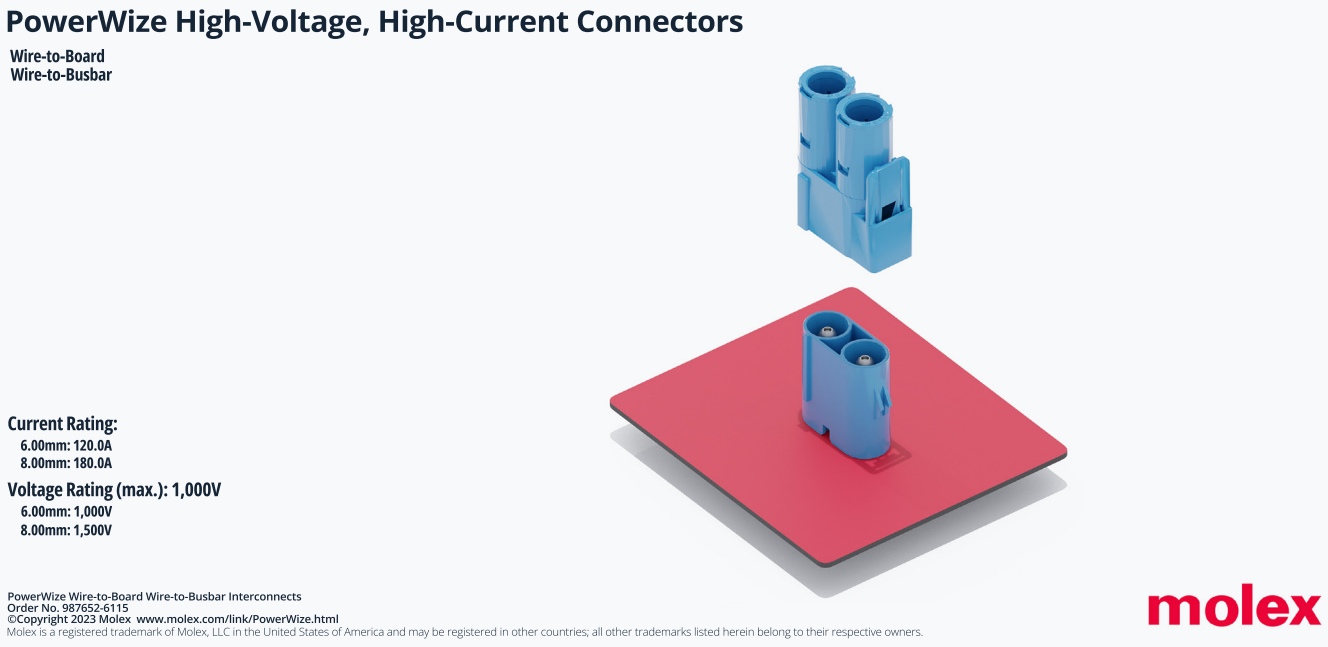
- Factory equipment
- Battery farms
- Robotics

Test and Measurement

- Instrumentation devices

Data Centers

- Servers
- Data storage units
- Power distribution units (PDUs)
- UPS/battery storage units
- Enterprise switches
- Circuit breakers
- Routers

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# POWERWIZE BMI CONNECTORS

PowerWize BMI blind-mating panel-to-board / panel-to-busbar connectors incorporate Molex's COEUR socket technology, which helps ensure low contact resistance at the mating interface to minimize heat generation and enable, high current-carrying capacity. It is available in three sizes: 3.40mm (75.0A), 6.00mm (110.0A) and 8.00mm (175.0A). The blind-mating design helps ensure accurate mating in hard-to-reach and visually obscured spaces.

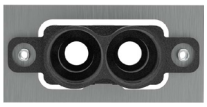
**Key Features:**

- **Optimal current-carrying capacity with multiple contact beams**
  Provides low contact resistance, low voltage drop and minimal heat generation at the contact interface.

- **Field installable battery-powered applicators**
  Enable on-site cable assembly fabrication for applications where cable assembly lengths are uncertain until installation is underway.

- **Blind-mating guideposts**
  Enable the inner wall of the header shrouds to align the connectors during mating, facilitating trouble-free mating in drawer-style applications where the connectors are obscured.

- **Self-aligning panel-mount receptacle flanges**
  Accept either force-fit standoffs paired with bolts (used when the assembler only has access to one side of the panel) or shoulder screws paired with nuts (often used when the assembler has access to both sides of the panel), allowing the panel mount receptacle +/- 2.00mm of radial float to mitigate tolerance stack-up issues.



**Additional Features:**

- Mechanical keying with unique geometry at the front of the panel-mount receptacle and matching geometry on the panel cutout
- Mechanical keying with unique geometry at the front of the panel-mount receptacle and matching geometry on the header shroud
- Screw-mount pins attached to both printed circuit boards and busbars; solder tail pins attached to printed circuit boards

# /POWERWIZE BMI CONNECTORS

**Additional Features continued:**

- Crimp contacts available to accept a wide range of wire gauges (10 AWG to 1/0 AWG)
- Secondary substrate attachment
- Reliable crimp geometry eight-sided crimp profile
- Terminal backout assurance
- User-friendly cable assembly build

**Markets and Applications:**

Electric Vehicle Charging Stations

- Inverters

Data Center Solutions

- Data storage units
- Enterprise switches
- Environmental control equipment
- PDUs (Power Distribution Unit)
- Power shelves
- Servers
- Uninterruptable power supplies

Telecommunications/Networking

- Data storage units
- Network routers
- PDUs (Power Distribution Unit)
- Servers
- Uninterruptable power supplies (UPSs)

Home Energy Storage

- Battery Storage System
- Gateway Storage System

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# SW1 INTERCONNECTS

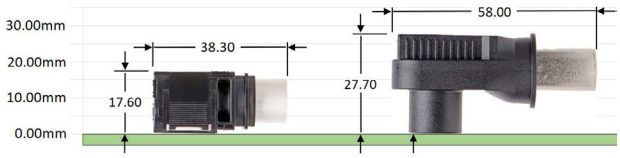
SW1 Wire-to-Board/Wire-to-Busbar Interconnects incorporate COEUR socket technology which enables a high-current-carrying capacity in three sizes: 6.00mm (120.0A), 8.00mm (185.0A) and 11.00mm (300.0A) with a unique positive-locking design for secure mating.

**Key Features:**

- **Low contact resistance**
  The COEUR conical socket's multiple contact beams offers low contact resistance and low voltage drop so there is minimal heat generation at the contact interface which results in higher current-carrying capacity compared to other contact designs.

- **Compact design**
  The COEUR socket design enables mated interconnects that are lower in height, with a shorter length and narrower width than comparable solutions using hyperbolic sockets, while offering significant design flexibility in applications where space is limited.

- **User-friendly positive locking**
  The unique quick connect and pinch-to-release design helps ensure secure mating during system integration and helps prevent cable assemblies from later backing off pins due to shock, vibration or mishandling. It also eliminates the need for mounting hardware and reduces installation time and routine maintenance costs.




- **Positive locking with 360° cable assembly rotation**
  The stainless-steel spring clip latches onto a groove in the locking pin, allowing the cable assembly 360° rotation about the pin for easy cable assembly dressing during system integration.

**Additional Features:**

- Color coded receptacle housings
- Multiple contact beams with optimal current-carrying capacity
- Design flexibility
- Reliable crimp geometry with high-quality 8-sided crimp profile
- Quick connect/pinch-to-release cable assemblies

# /SW1 INTERCONNECTS

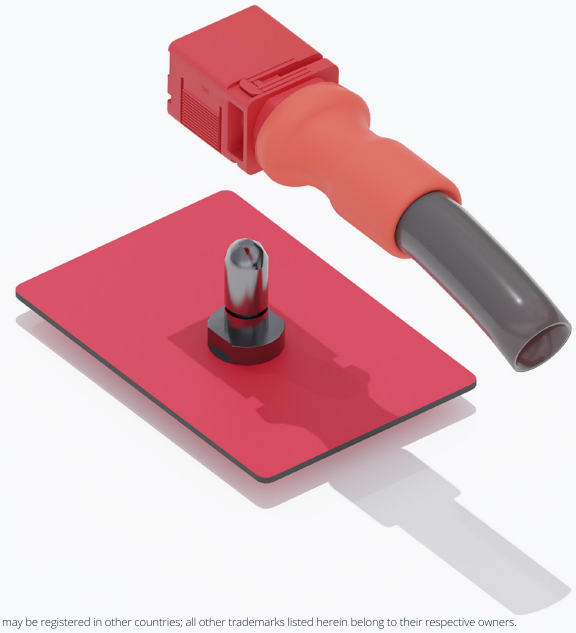
**Markets and Applications:**

Industrial Automation
- Factory equipment
- Robotics

Home Energy Storage
- Battery Storage System
- Gateway Storage System

## SW1 High-Voltage, High-Current Connectors

**Wire-to-Board**
**Wire-to-Busbar**



**Current Rating:**
6.00mm: 120.0A
8.00mm: 185.0A
11.00mm: 300.0A
**Voltage Rating (max.): 1,000V**

SW1 Wire-to-Board Wire-to-Busbar Interconnects
Order No. 987652-6114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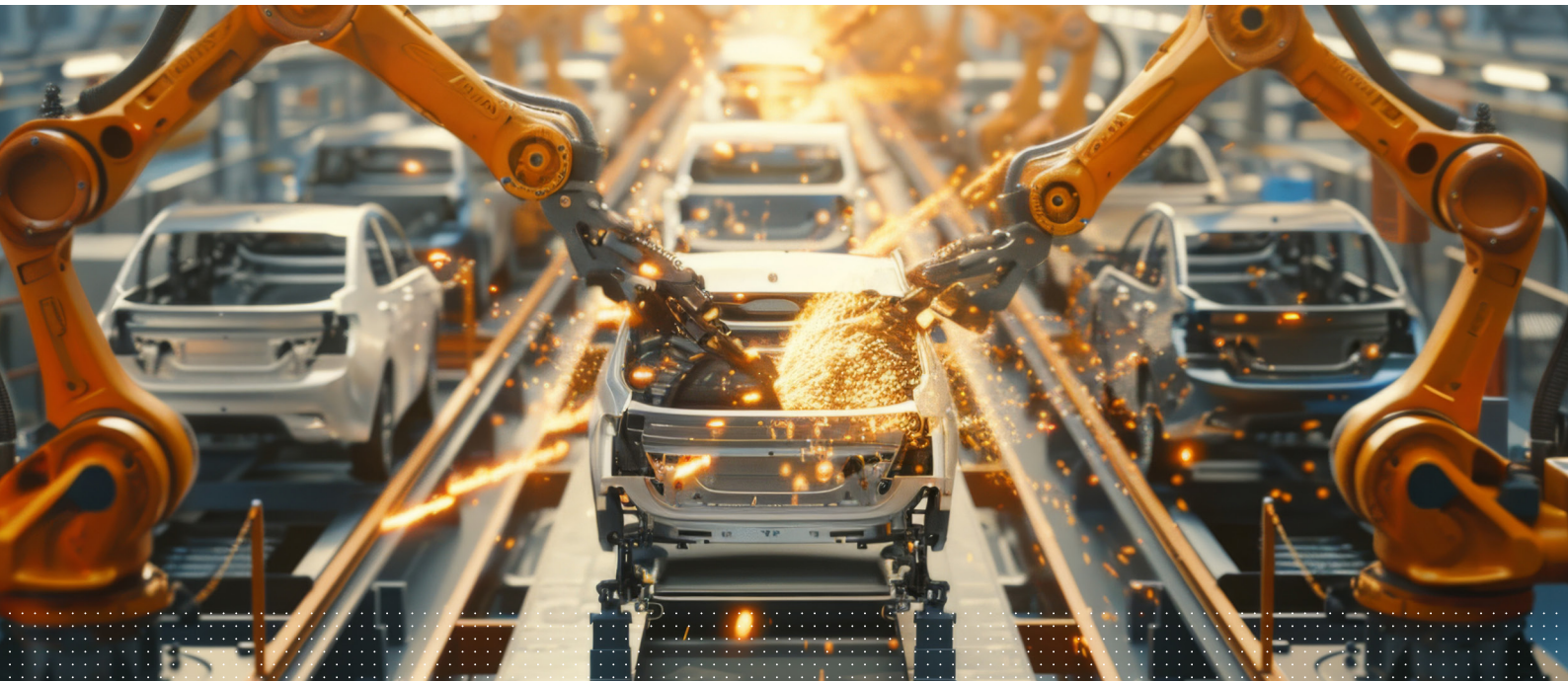


# POWERPLANE BUSBAR CONNECTORS

Molex's PowerPlane Busbar Power Connectors and Cable Assemblies provide exceptional high-current performance and configuration flexibility for power-distribution applications. PowerPlane Cable Assemblies meet OCP ORV3 compliance standards, ensuring maximum efficiency and adaptability for modern data center power-distribution architectures.

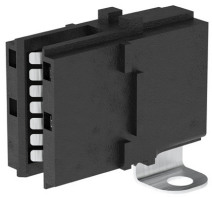
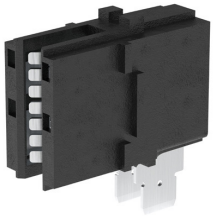
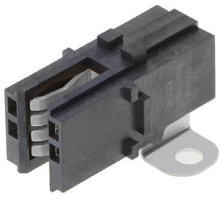
**Key Features:**

- **Float-Mount design**
  Allows up to +/- 1.00mm of misalignment, facilitating blind mating in deep racks.

- **One part number mates with 3.00- and 3.18mm-thick busbar tabs**
  This facilitates mating with de facto output blades for typical power supply applications and gives designers options for enhanced performance while meeting various system requirements.

- **Multiple, independent points of contact**
  This allows for 40% more points of contact than competitors do for high reliability and enhanced performance.

- **Several different current ratings and attachment methods utilizing the same separable interface**
  Engineers can overcome design limitations and have confidence in achieving a reliable interface with a variety of attach options across different current ratings. This provides a scalable solution for customers to meet different application requirements.


**Additional Features:**

- High-conductivity Copper alloy
- Dimensionally compatible with competitors' connectors
- Silver plating for lower resistance
- Low-voltage drop
- Screw-mount or solder-attach options

# /POWERPLANE BUSBAR CONNECTORS

**Markets and Applications:**

Telecommunications

- Base stations
- Network interfaces
- Networking equipment
- Power supplies
- Rack-mount servers
- Routers
- Switches

Networking

- Battery backup units
- Power shelves
- Routers
- Servers
- Storage units
- Switches

Automotive

- EV charging stations

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# ULTRAWIZE WIRE-TO-BOARD, HIGH-CURRENT POWER CONNECTORS AND CABLE ASSEMBLIES

Achieve superior power distribution with UltraWize Power Connectors and Cable Assemblies, specifically engineered for demanding data center applications. These products utilize proven Coeur socket technology which incorporates conical sockets to ensure a large conductive surface area. This reduces contact resistance and voltage drop to minimize heat generation and deliver high-current carrying capacity for UltraWize products. Additionally, the cable-side exit configuration uses minimal space and further enhances efficiency and design flexibility. UltraWize Power connectors and cable assemblies provide reliable, robust and space-saving power distribution in data center environments.

**Key Features:**

- **Minimizes stack height**
  The cable side-exit design eliminates the need to accommodate the cable-bend radius.

- **Reduces processing costs and increases speed to market**
  SMT reflow-capable headers in pickand-place packaging allow the header to be run through a reflow oven with no post-processing required.

- **Secures mating of the connector**
  A positive lock helps prevent the connector from accidentally unmating.

- **Minimizes PCB footprint requirements**
  The staggered pin design reduces the space required on the PCB and allows more room for additional components.

- **Reduces mis-mating in production for fewer defects**
  The connectors are mechanically keyed and have locating pegs to ensure correct mating.

**Markets and Applications:**

Data Center

- Servers (GPU)
- Switches

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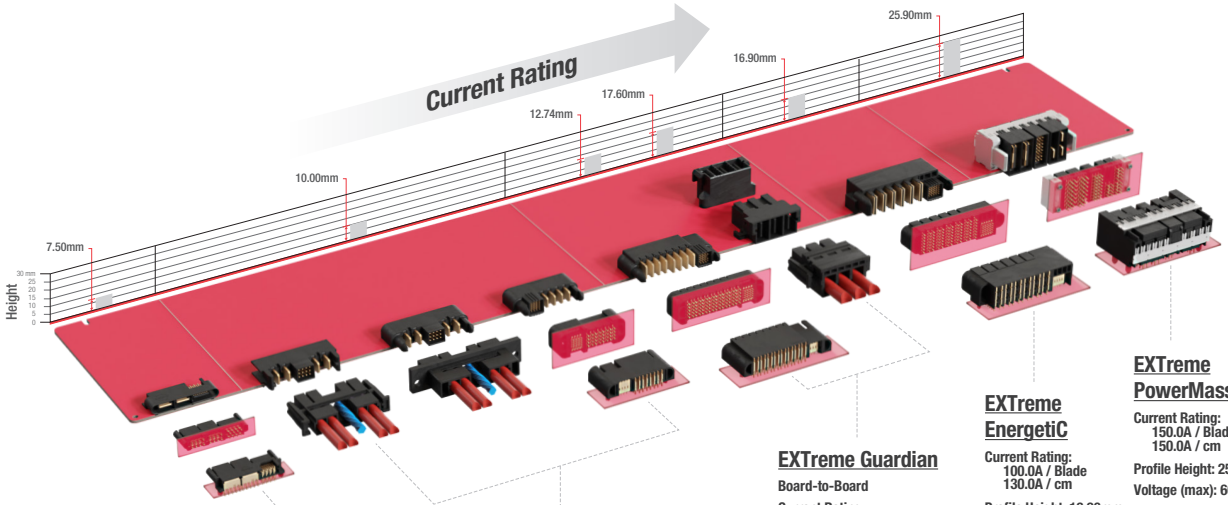
# /EXTREME POWER PRODUCTS

To operate at peak efficiency, today's data centers require interconnects that can accommodate significant amounts of power. Molex EXTreme Power products are specifically designed to support high-current applications with optimal power densities and exceptional thermal management capabilities. They are also available in an extensive range of configurations, so customers can continue evolving seamlessly.




**EXTreme LPHPower**
Current Rating:
30.0A / Blade
50.0A / cm
Profile Height: 7.50mm
Voltage (max): 250V

**EXTreme Ten60Power**
Current Rating:
60.0A / Blade
109.0A / cm
Profile Height: 10.00mm
Voltage (max): 600V

**EXTreme Guardian**
Board-to-Board
Current Rating:
80.0A / Blade
155.0A / cm
Profile Height: 12.74mm
Voltage (max): 120V

Wire-to-Board
Current Rating:
80.0A / Blade
73.0A / cm
Profile Height: 17.60mm
Voltage (max): 600V

**EXTreme EnergetiC**
Current Rating:
100.0A / Blade
130.0A / cm
Profile Height: 16.90mm
Voltage (max): 320V

**EXTreme PowerMass**
Current Rating:
150.0A / Blade
150.0A / cm
Profile Height: 25.90mm
Voltage (max): 600V

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# EXTREME TEN60 POWER CONNECTORS

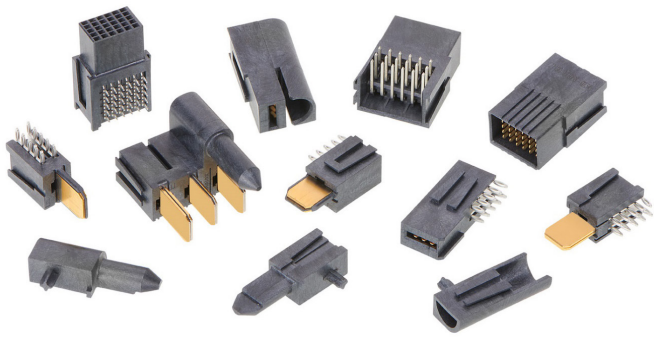
Molex EXTreme Ten60 Power High-Current Connectors are advanced hybrid power and signal devices, delivering exceptional performance with up to 260A per linear inch and quick response times. These connectors are specifically designed for applications that demand high current density and minimal power loss. By offering a compact, low-profile housing at just 10mm in height, Molex EXTreme Ten60 Power achieves maximum current-to-length ratio while enhancing system airflow. Both the plug and receptable utilize reliable, proven Molex power and signal contact designs, ensuring a reliable and efficient connection for all needs.

**Key Features:**

- **Highly Configurable Connector System**
  EXTreme Ten60 Power Connectors allow designers space-saving flexibility by utilizing a dovetail design to offer many combinations of signal and power connections. This configuration allows for rapid prototyping and ease of design for your power supply.

- **Blind-Mate Top and Side Guides**
  EXTreme Ten60 Power Connectors offer a +/-1.80mm gatherability for X and Y directions when used in blind-mate applications. Designers can reduce PCB space by selecting the top guides without sacrificing board-to-board alignment. Guides are made with cost-effective and robust plastics.

- **Configurable Power and Signal Terminals**
  EXTreme Ten60 Connectors may be used with split/low-power blades mixed with standard/high power blades for the appropriate amperage and voltage of an application. Select from our high-density-signal modules for 10 to 40 signals or use the signal modules side by side to get up to 120 signals.



# /EXTREME TEN60 POWER CONNECTORS

**Additional Features:**

- Split power or standard blades
- Press fit or solder tail
- Blade and signal length options
- Configurable with dovetail design
- PCB polarizing pegs
- Low-profile design (10.00mm)
- Top or side guides

**Markets and Applications:**

Data Communications

- Servers
- Power supplies
- Rack servers

Telecommunications

- Hubs
- Cellular base stations
- Switches
- Routers
- Power supplies

Home Appliances

- LED lighting devices
- Smart LED screens
- Solar batteries
- Generators
- Power distribution systems
- High-voltage power tool batteries

Electric Vehicles

- Charging stations
- E-bike batteries
- Garage chargers
- Power walls (home batteries)
- Generators

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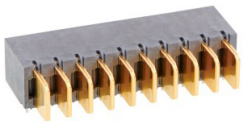
# EXTREME GUARDIAN HD POWER CONNECTORS

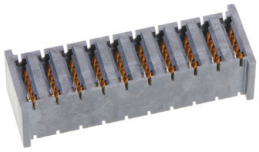
Molex EXTreme Guardian HD Power Connectors combine high-current density and a low-profile design, offering flexibility and a configurable hybrid power/signal solution. With redundant contact designs capable of handling up to 125V, these connectors minimize voltage drop and power losses for AC or DC high-voltage applications. They provide up to 80A current density per blade, featuring gold contact plating for low interface resistance. Ideal for data/computing, industrial and telecommunication applications.

**Key Features:**

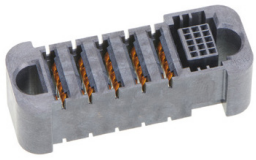
- **EXTreme Guardian (Wire-to-Board) Housings accept large gauge wire (up to 6 AWG):** Provides a large current-carrying capacity.



- **Terminal interface with 6 independent points of contact:** Offers redundant, secondary current paths for long-term performance and reliability.

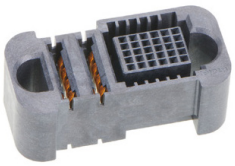


- **Positive locking housing:** Ensures secure retention when receptacle and header are mated. Delivers an audible click to provide feedback that the connector is fully mated.



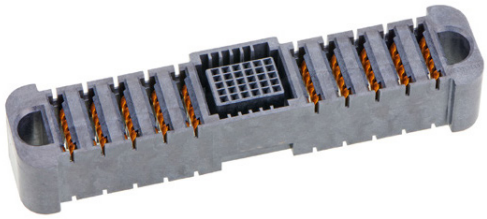
- **Fully isolated receptacle terminals and header blades:** Protection against potential damage during handling and mating.

- **EXTreme Guardian HD (Board-to-Board) Provides one of the greatest current density solutions:** Current density up to 394.0A per inch.



- **Configurable Hybrid power/signal connectors:** Provides high-current density in a low-profile package for design flexibility.

- **Redundant contact design that handles up to 125V:** Supports AC or DC high-voltage applications with the lowest feasible voltage drop and irreversible dissipative power losses.



- **High temp of 125°C rating (power circuits):** Provides greater margin for customers' temperature designs.

# /EXTREME GUARDIAN HD POWER CONNECTORS

**Markets and Applications:**

Telecommunication/Networking

- Routers
- Switches
- 1U Rack box
- Backplanes
- Power supplies
- Servers

Data/Computing

- High-end servers
- Workstations

Industrial

- Industrial controls
- Warehouse robots

Automotive

- Electric vehicles (EVs)
- EV transformers
- EV chargers
- EV audio equipment
- EV onboard computing systems

Medical

- Power supplies
- Medical equipment displays
- LED lighting equipment

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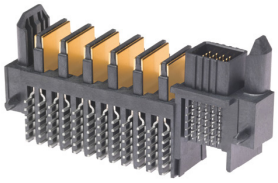
# EXTREME ENERGETIC CONNECTORS

EXTreme EnergetiC High-Current Connector System is the ultimate solution for the next-generation computing needs, providing an impressive current capacity of up to 100.0A per blade. Designed with optimized power savings in mind, these connectors feature a low-power-loss interface design, ensuring efficient power utilization. With a compact 2.00mm x 1.65mm pitch signal spacing, these connectors are ideal for space-constrained applications, freeing up valuable real estate. The series includes modular split blades capable of handling voltages up to 63VAC or 63VDC, while the bay-to-bay configuration supports voltages up to 320VAC or 320VDC.

**Key Features:**

- **Modular, Dovetail Construction**
  Allows parts to be arranged in virtually any signal and/or power configuration. Enables fast-to-market, costeffective production. No special tooling is required.

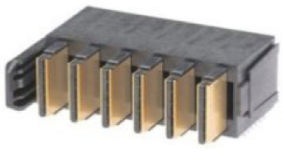


EnergetiC Modular Connector

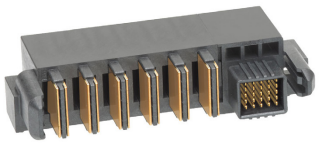
- **High-Current Contact System**
  Conveniently available as a single part number which can include up to 10 blade bays. Each individual blade bay is capable of supporting a substantial current of up to 100.0A, offering flexibility and scalability required in high-current applications.

Non modular Vertical
Press-Fit Receptacle

- **Multiple mating levels available on power and signal contacts**
  Provides grounding safety FirstMate-Last-Break (FMLB) pin configuration.



Modular Right-Angle Plug Components
with Dovetail Construction



Modular Hybrid Power and Signal
Right-Angle Plug and Vertical Receptacle

**Additional Features:**

- Low-power-loss interface design
- Rated for resistance to arc
- 2.00mm pitch signal spacing
- Robust, high-current blades rated up to 320V

# /EXTREME ENERGETIC CONNECTORS

**Markets and Applications:**

Data/Computing

- 1U / 2U servers
- Power distribution circuit boards
- Storage
- High-end computers

Industrial

- Power supplies
- UPS/battery storage

Industrial

- Industrial controls
- Warehouse robots

Telecommunications/Networking

- Servers
- Storage
- Routers

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# EXTREME LPH POWER CONNECTORS

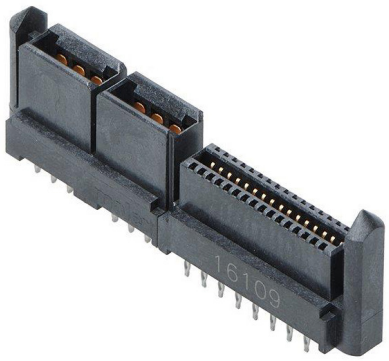
Molex EXTreme LPH Power Connectors redefine connectivity with their compact design and exceptional performance. With power blades parallel to the PC board and low-profile height of 7.50mm, they offer superior system airflow and take up 53% less space than traditional connectors. These connectors deliver up to 127.0A per linear inch, feature two isolated power blades in each housing bay, and can be mated in multiple orientations. Experience the future of power connectors with Molex EXTreme LPH Power, maximizing efficiency and reliability.

**Key Features:**

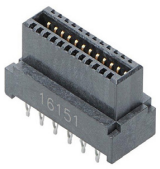
- **Low-profile design**
  Low-profile power contacts enhance system airflow with power contacts that are parallel to the PC board, permitting an overall connector height of 7.50mm.

- **Flexible design configurations**
  LPH receptacles mate to either LPH plug or industry standard 1.57mm card edge providing greater flexibility amongst multiple industries and applications.

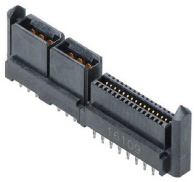
- **Hybrid power/signal design**
  Allows power and return in the same bay to accommodate common DC power requirements.



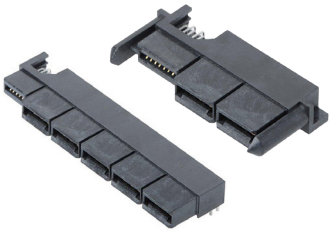
Power-Only Vertical Receptacle



Signal-Only Vertical Receptacle



Hybrid Vertical Receptacle



Hybrid Right-Angle Receptacles

Hybrid Right-Angle Plugs

**Additional Features:**

- Rated for current interruption
- Rugged signal and power contacts
- Receptacle sides mate to Molex standard LPH plug or an industry-standard 1.57mm PCB gold finger card edge
- Low halogen and RoHS compliant

# /EXTREME LPH POWER CONNECTORS

**Markets and Applications:**

Data/Computing

- Test Equipment
- Workstations
- High-End Servers
- Rack Servers

Industrial

- Industrial Controls

Networking

- 1U Rack Box
- Backplanes
- Power Supplies
- Servers

Telecommunications

- Routers
- Switches
- Hubs
- Cellular Base Stations
- Consumer Electronics
- UAVs/Drones

Consumer Electronics

- UAVs/Drones
- Appliances
- Entertainment Systems
- HVAC Systems

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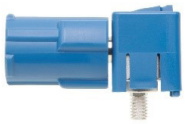
# /HYPERQUBE CONNECTORS

The HyperQube interconnect system is designed to meet the demands of space-constrained applications, while providing unmatched and reliable performance. As manufacturers are challenged with increasing efficiency and providing protection against mis-mating, HyperQube connectors streamline and ensure secure installations with enhanced product features. These connectors also address the requirements of design engineers for electrical safety by offering features for touch-proof and finger-safe results. Designed to meet rigorous industry standards, HyperQube connectors provide safe and reliable power transmission even in demanding environments.

**Key Features:**

- **Excellent Space Savings and High Performance**
  HyperQube PCB receptacles incorporate Molex's COEUR socket that generates minimal heat at the contact interface, allowing for high-current loads. These high-performance connectors also have an ultra-small PCB footprint, making them ideal for space-constrained applications.

- **Secure and Reliable Connections**
  The HyperQube interconnect system incorporates a positive-locking mechanism to ensure a secure and robust connection for continuity in critical operations. The mechanically keyed design on the PCB receptacles ensures proper mounting on the PCB, and the distinct color options help prevent mis mating and simplify identification for streamlined installation during assembly.



- **Design and Manufacturing Flexibility**
  The PCB receptacle's external thread design allows quick removal and replacement if required. When mated, HyperQube connectors are touch-proof and finger-safe, ensuring the safety of technicians from electrical shock.


# /HYPERQUBE CONNECTORS

**Additional Features:**

- Achieves space savings in a compact design
- Offers time savings with accurate mating
- Provides high-power density
- Delivers robust electrical performance
- Ensures receptacles are correctly placed and properly oriented on the PCB or busbar, eliminating manufacturing issues
- Affords design flexibility
- Offers manufacturing flexibility
- Provides safety for workers

**Markets and Applications:**

Data Center

- Servers
- Switches

Home Energy Storage

- Inverters

Industrial Automation

- Motors

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