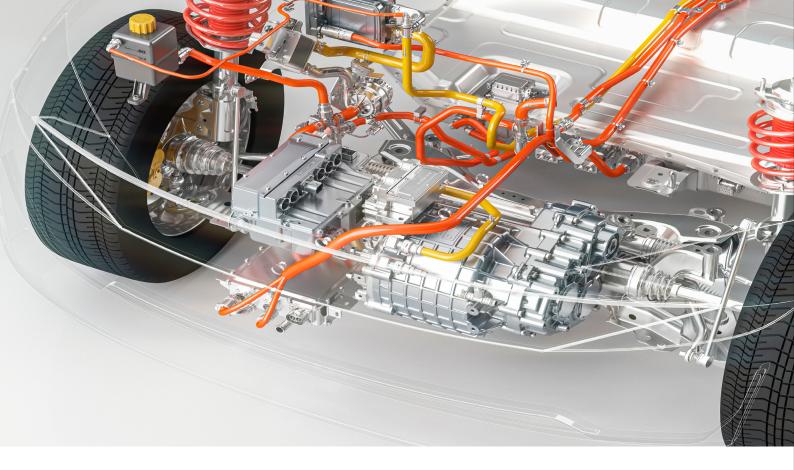


Interplex

POWER BROCHURE







FAST-TRACK THE DESIGN CYCLE FOR YOUR

POWER COMPONENTS

With new challenges regarding next-gen higher performance power components, it has become clear that OEMs and suppliers need partners with deep production expertise and understand early-stage design requirements and manufacturability beyond a component level.

There is no one-size-fits-all approach in solving complex challenges. As an end-to-end customized interconnect solutions provider, our teams take a holistic approach to understand the complete functional and application requirements of your assembly and innovate relentlessly to address any concerns. Leveraging our high-precision engineering with vertically integrated capabilities, we deliver reliable solutions that supports today's short time-to-market and overall high-volume production goals.



Interplex Power solutions are designed to address:

- > Increasing power densities.
- > Tight size and weight constraints.
- > High and low voltage powertrain options.
- Integrated thermal management capabilities.
- > End-to-end partnering from design to volume production.





POWER



CHALLENGES

- > Demand for increasing power density and faster switching speed in today's power inverter applications.
- > These applications with higher voltages need better insulation and robust dielectric materials.



SOLUTIONS

- Our solutions are thermal and chemical resistant, delivering optimal electrical performance and power efficiency.
- We resolve design challenges and help fasttrack the design cycle.
- > Our vertically-integrated capabilities and global footprint ensure meeting of production schedules.



BENEFITS

- Solutions customized to end applications enable smaller and faster DC-AC inverters that are robust and thermally officient
- High production volumes that meet stringent quality standards for longer product lifecycles and reduced Total Cost of Ownership.



OUR SOLUTIONS



Power Module Lead Frame



BusMate® Power Busbar Connector System

LEARN MORE



High Power Connector



Flexible Busbar

LEARN MORE



Power Filter Module



AC & DC Molded Busbar



Phase Busbar

LEARN MORE



POWER



CHALLENGES

- > Reliability is a key concern due to the proliferation of devices that need converters for power.
- Application requirements include stringent size and weight constraints and high standards for durability.



SOLUTIONS

- Our solutions preserve space and weight and assure reliable, robust operation in harsh conditions.
- > We resolve design challenges and help fast-track the design cycle.
- > Our vertically-integrated capabilities and global footprint ensure meeting of production schedules.



BENEFITS

- Solutions customized to end applications enable smaller and faster DC-DC converters that are robust and thermally efficient
- > High production volumes that meet stringent quality standards for longer product lifecycles and reduced Total Cost of Ownership.

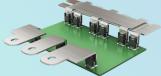
OUR SOLUTIONS



AC & DC Molded Busbar



Power Module Lead Frame

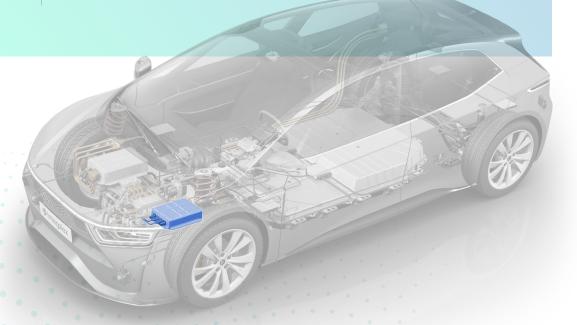


BusMate® Power Busbar Connector System

LEARN MORE



High Power Connector



ELECTRIC TRACTION MOTOR



POWER



CHALLENGES

- > The ability to handle complex AC phase connections is key for the transition of DC motors to AC motors which delivers more power and torque.
- > Bulky and costly windings on motor stators need to be simplified while delivering top performance in harsh conditions.



SOLUTIONS

- Our busbar solutions enable complex AC multi-phase connections in harsh conditions.
- We resolve design challenges and ensure manufacturability, electrical efficiency and cost effectiveness.
- > Our vertically-integrated capabilities and global footprint ensure meeting of production schedules



BENEFITS

- Solutions customized to end applications enable smaller, lighter and highly-efficient AC traction motors.
- > The busbars have low potential points of failure resulting in better overall EV performance, range and lifecycle.
- > Elimination of wiring error and reduction in assembly time resulted in reduced risk and Total Cost of Ownership.



ON-BOARD CHARGER



POWER



CHALLENGES

- Slow EV charging processes are a key concern for end consumers.
- > The rise of two-way charging and Smart-Charging are adding complexity due to built-in intelligence.
- Application requirements have tight size and weight constraints.



SOLUTIONS

- Our BusMate® and connectors reduce size and complexity while assuring robust highpower transmission.
- > We solve the application design challenges of complex two-way charging, Smart-Charging and charging from multi-phase AC sources.
- > Our vertically-integrated capabilities and global footprint ensure meeting of production schedules.



BENEFITS

- Solutions customized for end applications enable smaller, lighter and robust on-board chargers.
- Connectors for the full range of two-way, Smart-Charging and AC charging are provided from one supplier.
- > High quality standards enable longer product lifecycles and reduced Total Cost of Ownership.

OUR SOLUTIONS

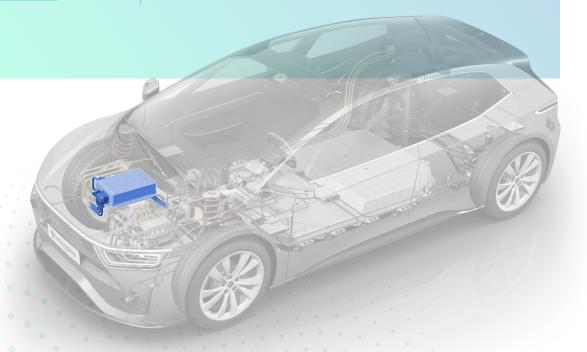


BusMate® Power Busbar Connector System

LEARN MORE



High Power Connector





ELECTRIC POWER STEERING



POWER



CHALLENGES

- > Tight integration of complex power and signaling is needed between multiple modules are required.
- Interfaces between power and control PCBs and external interfaces to power steering motors are critical for success.



SOLUTIONS

- Our BusMate®, busbars and custom solutions combine to support reliable power and signaling.
- BusMate® simplifies the assembly of robust power interfaces.
- > Our vertically-integrated capabilities and global footprint ensure achievement of production schedules.



BENEFITS

- Our customizable solutions enable integrated power steering systems in small, low weight form factors.
- > High production volumes that meet stringent quality standards provide longer product lifecycles and reduced Total Cost of Ownership.



OUR SOLUTIONS



Motor Stator Busbar

LEARN MORE



BusMate® Power Busbar Connector System

LEARN MORE



Power Filter Module



APPLICATIONS & CAPABILITIES

Interplex power interconnects, busbar solutions and lead frames are fully customizable across a range of applications within EV power systems. The table below provides a quick reference regarding applications and capabilities for the various Interplex offerings.

SOLUTION	PHASE BUSBAR	AC & DC MOLDED BUSBAR	MOTOR STATOR BUSBAR	FLEXIBLE BUSBAR
IMAGE	LEARN MORE	No.	LEARN MORE	LEARN MORE
APPLICATIONS	InverterElectric Traction Motor	> Inverter > Converter	> Electric Traction Motor > Electric Power Steering	> Inverter> Electric Traction Motor
DIFFERENTIATED CAPABILITIES	 Dispensing and Curing (Sealant) Electrical Function & HIPOT Testing Leak Testing Brazing Green Laser Welding Overmolding Plating 	Electrical Function & HIPOT Testing Brazing Green Laser Welding Crimp & Weld Component Attachment Integration - Current & Temperature Sensors Overmolding Plating	Electrical Function & HIPOT Testing Brazing Green Laser Welding Overmolding Plating	 > Brazing > Diffusion Welding > Dispensing and Curing > Electrical Function & HIPOT Testing
SOLUTION	BUSMATE® POWER BUSBAR CONNECTOR SYSTEM	HIGH POWER CONNECTOR	POWER MODULE LEAD FRAME	POWER FILTER MODULE
IMAGE	LEARN MORE			000
		COO		
APPLICATIONS	> Inverter > Converter > On-board Charger > Electric Power Steering	> Inverter > Converter > On-board Charger	> Inverter > Converter	> Inverter > Electric Power Steering

BE PART OF THE MOBILITY REVOLUTION

VISIT INTERPLEX MOBILITY





