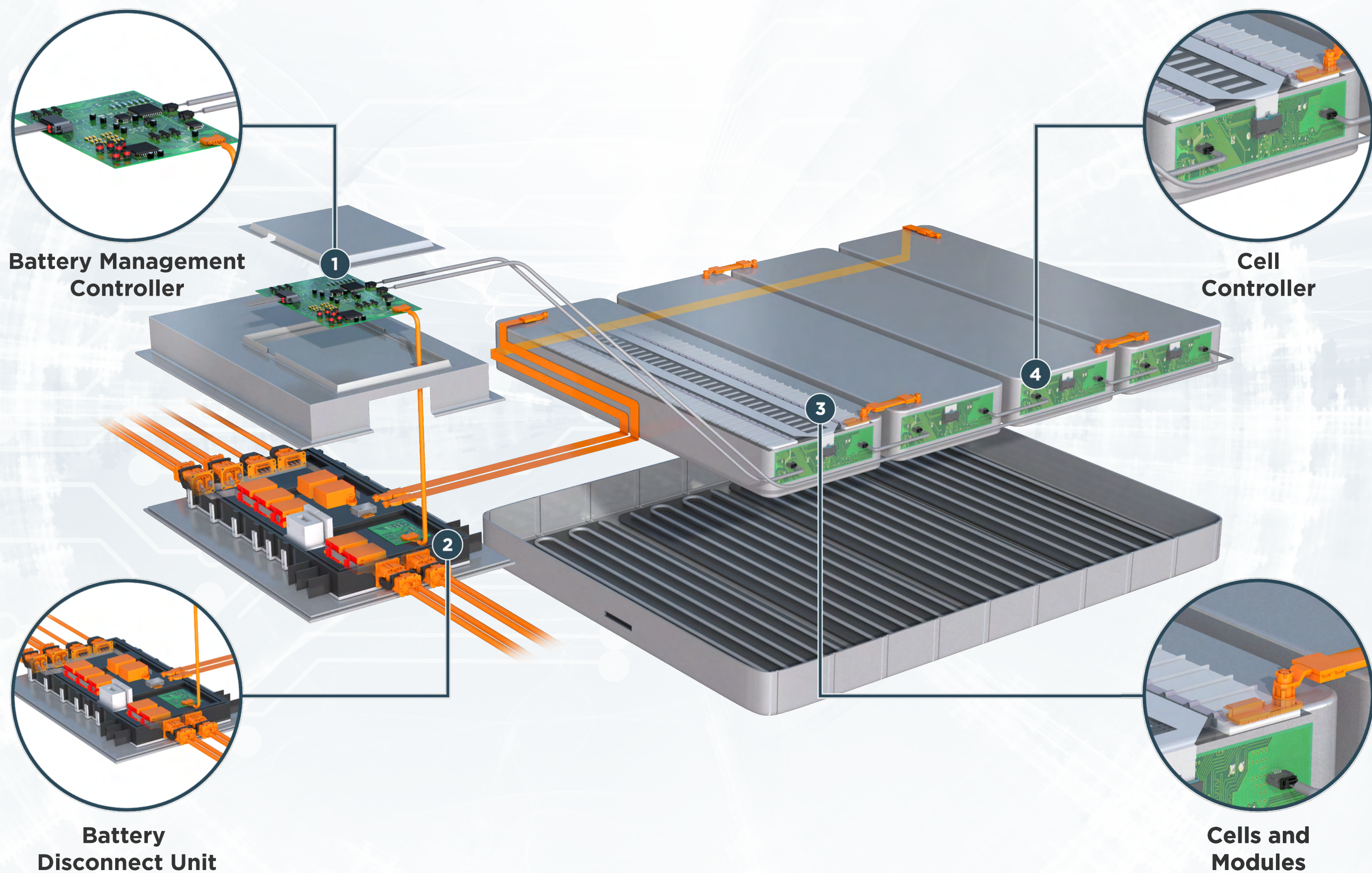


BATTERY CONNECTIVITY SOLUTIONS FOR ELECTRIC VEHICLES



KEY APPLICATIONS

CLICK AND JUMP TO

1 Battery Management Controller

2 Battery Disconnect Unit

3 Battery Cells & Modules

4 Cell Controller Electronics

Application Tooling

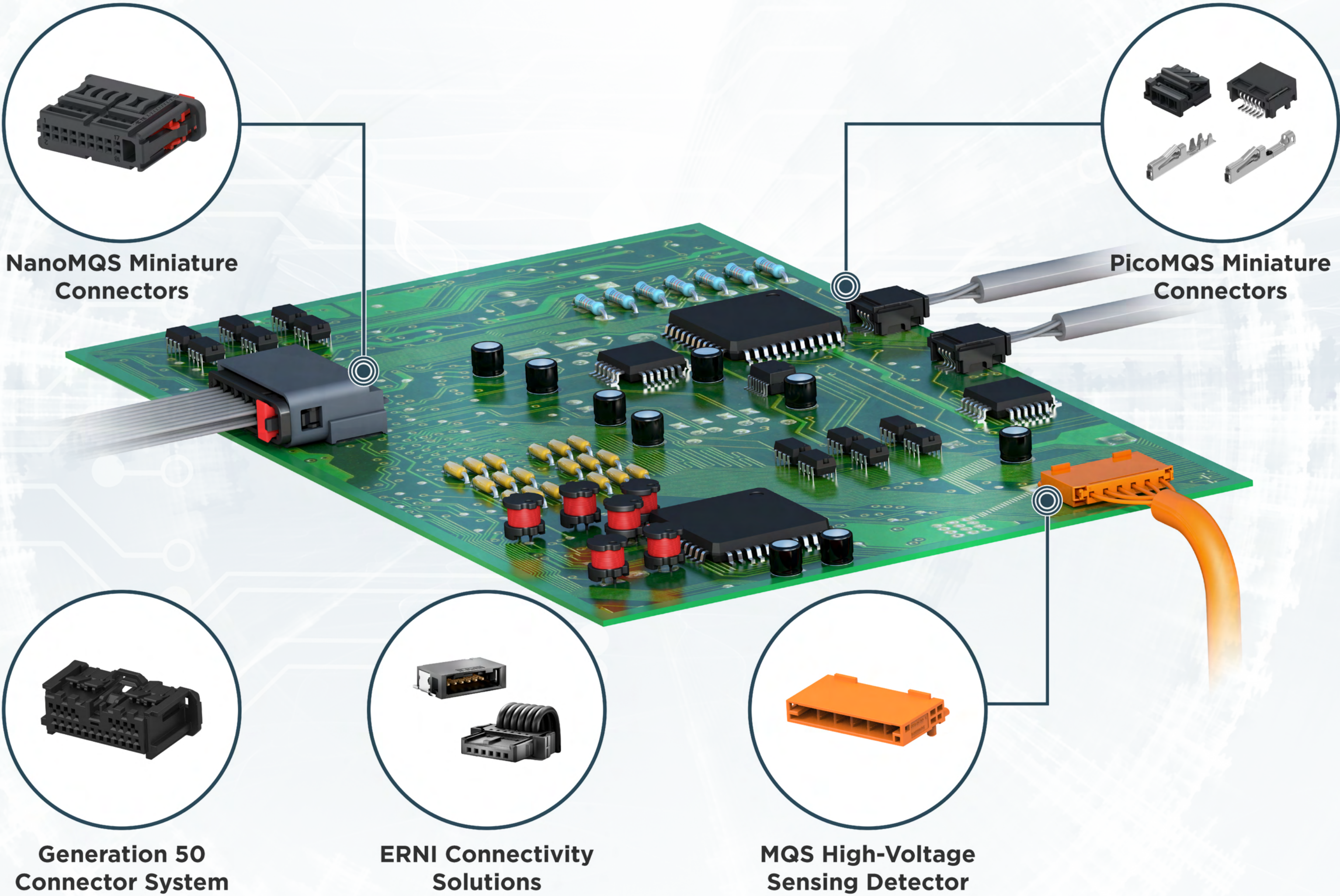
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BATTERY CONNECTIVITY SOLUTIONS FOR ELECTRIC VEHICLES



1 BATTERY MANAGEMENT CONTROLLER

Click on the image to learn more!



- PicoMQS Miniature Connector System**
- 1.27 mm pitch w/ 55% reduction in crimp length
 - 0.13 mm² to 0.22 mm² wire size range
 - LV214 compliant with SG2 vibration grade
 - 70% reduced packaging space; CPA possible



- NanoMQS Miniature Connector System**
- Auto-grade LV214 with 6 to 40P (CPA option up to 28P)
 - Up to 50% reduced PCB footprint
 - Flame resistance UL 94 V0
 - SMT & TH; 1- or 2-row headers with 90° or 180° pin orientation; side and top-latch plugs



- Generation 50 Connector System**
- PCB retention forces at 80N
 - USCAR, unsealed connector solution
 - CPA, PCB mounting clips & anti-scooping
 - 1- or 2-row, 2 to 20 positions, 1.8 mm pitch



- MQS High-Voltage Sensing Detector**
- High-voltage, low-current connector
 - 800 - to 1000-volt readiness
 - Flame resistance UL 94 V0
 - 2, 6, & 10 positions; 90° or 180° pin orientation
 - Auto-grade LV214 compliant, PD2 compliant



- ERNI Interconnect Solutions**
- Board-to-board, wire-to-board, foil-to-board
 - 3.5 mm PCB height and 9 mm depth
 - 2 to 20 pos., 90° or 180° pin orientation, UL 94 V0
 - IDC termination for automated wire processing
 - Optional CPA double-sided interlocking
 - Up to 9 A, 150°C operating temp.

CLICK AND JUMP TO

1 Battery Management Controller

2 Battery Disconnect Unit

3 Battery Cells & Modules

4 Cell Controller Electronics

Application Tooling

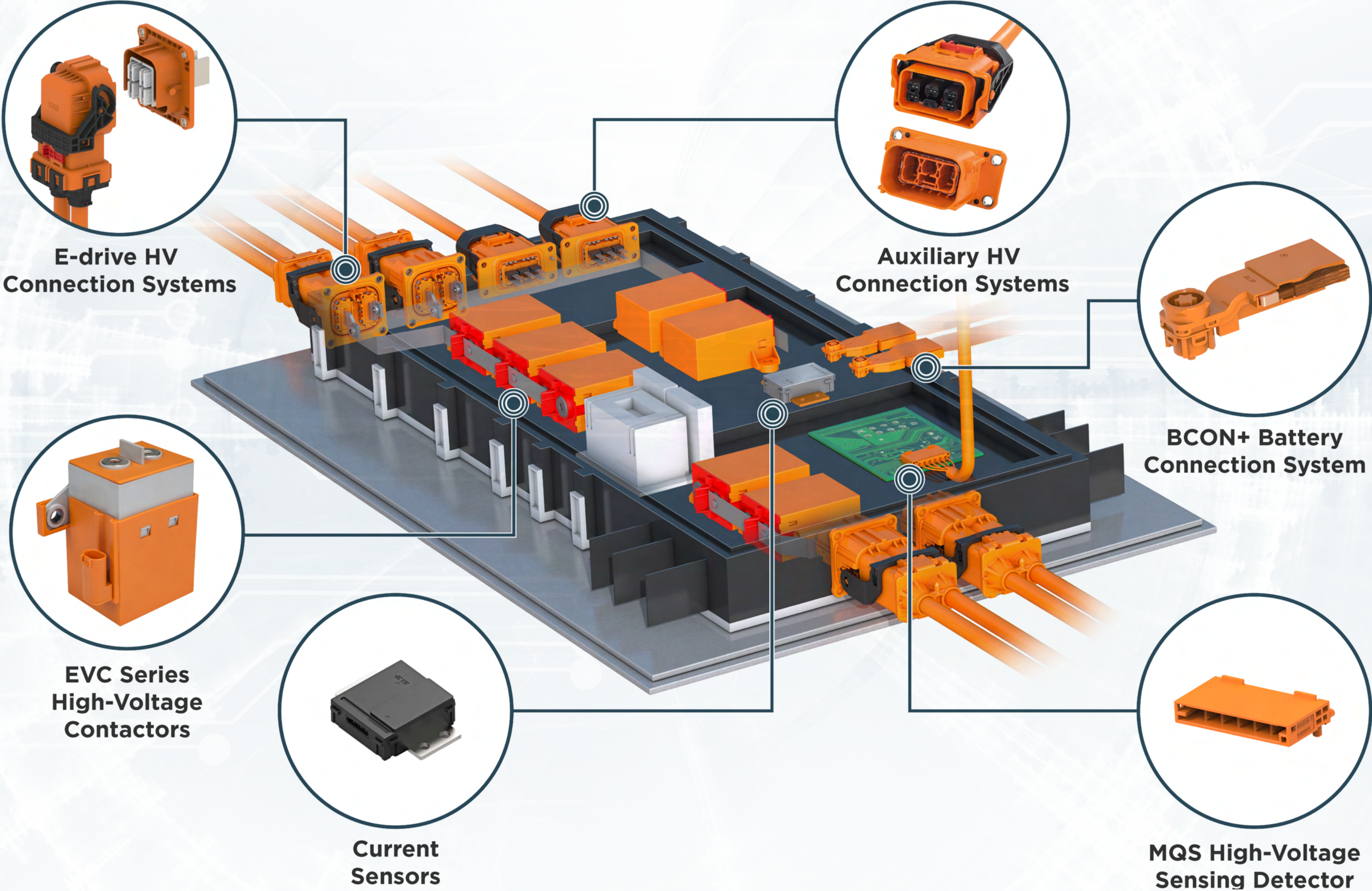
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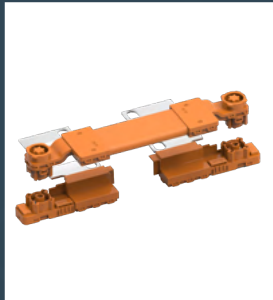


BATTERY CONNECTIVITY SOLUTIONS FOR ELECTRIC VEHICLES



2 BATTERY DISCONNECT UNIT

Click on the image to learn more!



- BCON+ Battery Connection System**
- Solutions for modules, control boxes, and terminal-to-busbar assemblies
 - High-power (500 A continuous) with very low losses
 - Compact, flexible, and easy to handle
 - Highly durable and touch-safe



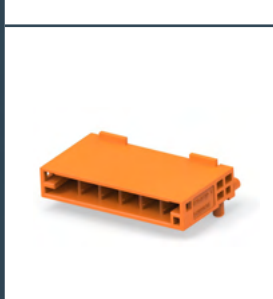
- EVC Series High-Voltage Contactors**
- Voltage ratings up to 800 VDC
 - Current capabilities up to 500 A
 - Short circuit carry currents up to 17 kA
 - Well suited for main circuit, auxiliary load, and AC & DC charging path protection



- High-Voltage Interconnection Systems for EV Drivetrains**
- Up to 1000 VDC & 500 A, for drivetrain and charging path
 - Flexible 90° and 180° plug configurations
 - Shielded and unshielded versions available
 - Built-in touch safety, easy to assemble



- High-Voltage Interconnection Systems for Auxiliary Applications**
- Higher voltage energy transfer in a smaller, lightweight package
 - Designed for low- to medium-current applications
 - Up to 1000 VDC & 100 A; thousands of configurations
 - Flexible, proven, and reliable terminal systems



- MQS High-Voltage Sensing Detector**
- High-voltage, low-current connector
 - 800- to 1000-volt readiness
 - Flame resistance UL 94 V0 2 to 6 position and 90° or 180° pin orientation
 - Auto-grade LV214 compliant, PD2 compliant



- Current Sensors**
- Optimized for EV battery sensing
 - High accuracy and measurement ranges
 - Fast response time
 - Includes active, passive, and hall current sensors

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CLICK AND JUMP TO

1 Battery Management Controller

2 Battery Disconnect Unit

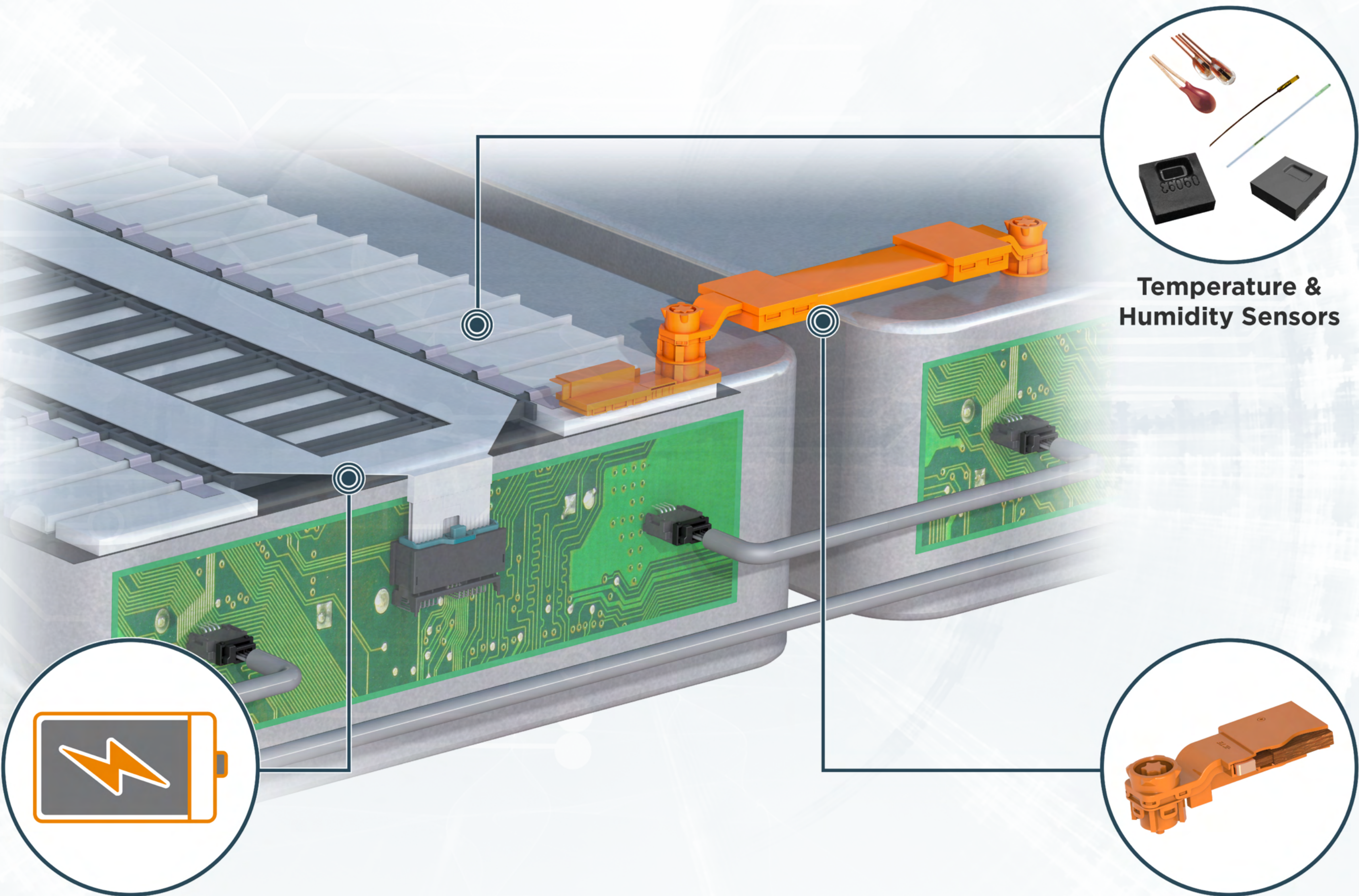
3 Battery Cells & Modules

4 Cell Controller Electronics

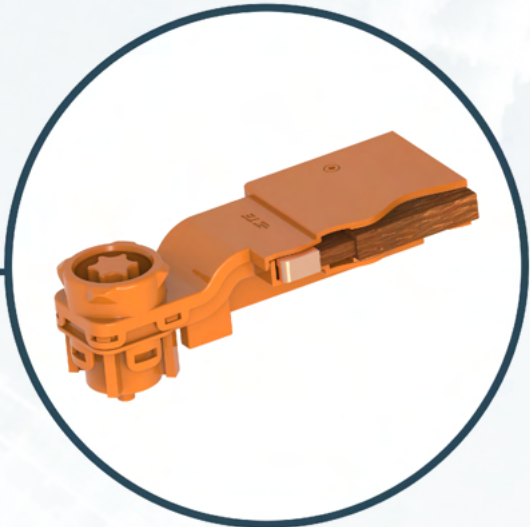
Application Tooling

BACK TO START

BATTERY CONNECTIVITY SOLUTIONS FOR ELECTRIC VEHICLES



Temperature & Humidity Sensors



BCON+ Battery Connection System



More Battery Solutions

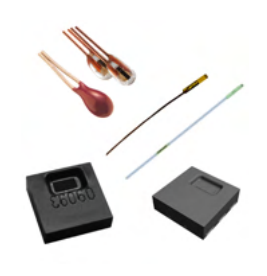
3 BATTERY CELLS & MODULES

Click on the image to learn more!



BCON+ Battery Connection System

- Solutions for modules, control boxes, and terminal-to-busbar assemblies
- High-power (500 A continuous) with very low losses
- Compact, flexible, and easy to handle
- Highly durable and touch-safe



Temperature & Humidity Sensors

- Optimized for EV battery sensing
- High accuracy and measurement ranges
- Fast response time



More Battery Solutions

- TE Connectivity's cell-to-cell, module-to-module, cell-to-pack, cell-to-chassis, and cell-to-vehicle innovations provide solutions for power-to-weight ratio, time-to-recharge, total range capabilities, and more.

CLICK AND JUMP TO

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Application Tooling

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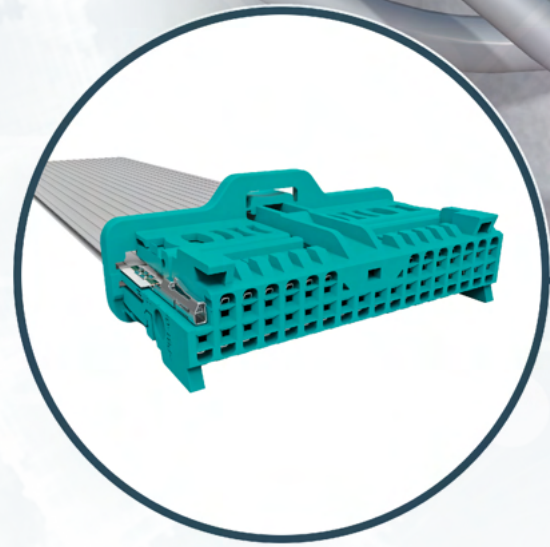
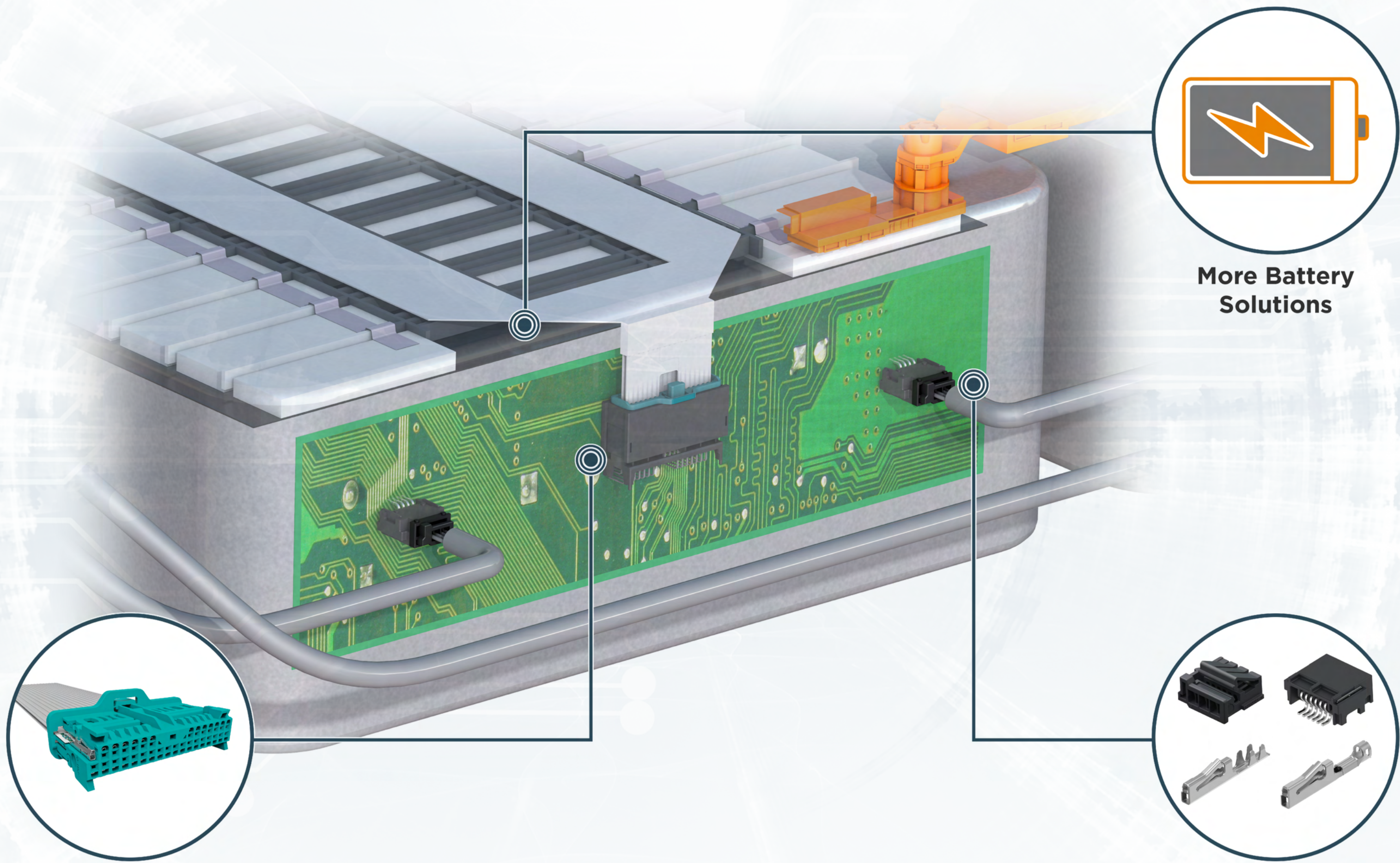
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BATTERY CONNECTIVITY SOLUTIONS FOR ELECTRIC VEHICLES



NanoMQS
Miniature Connectors



More Battery
Solutions



PicoMQS
Miniature Connectors

4 CELL CONTROLLER ELECTRONICS

Click on
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learn more!



- PicoMQS Miniature Connector System**
- 1.27 mm pitch w/ 55% reduction in crimp length
 - 0.13 mm² to 0.22 mm² wire size range
 - LV214 compliant with SG2 vibration grade
 - 70% reduced packaging space; CPA possible



- NanoMQS Miniature FFC Connector System**
- Auto-grade LV214 with 2-row, 8 to 40 positions
 - Compact, low-profile flat flexible cables (FFC)
 - Flame resistance UL 94 V0
 - SMT & TH headers, 90° & 180° pin orientation



- More Battery Solutions**
- TE Connectivity's cell-to-cell, module-to-module, cell-to-pack, cell-to-chassis, and cell-to-vehicle innovations provide solutions for power-to-weight ratio, time-to-recharge, total range capabilities, and more.

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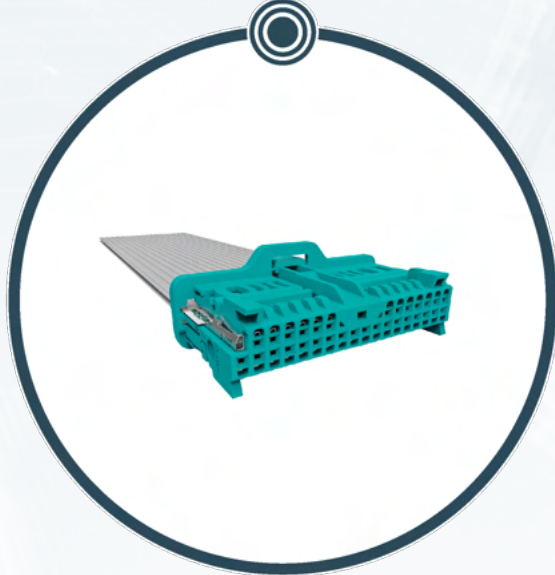
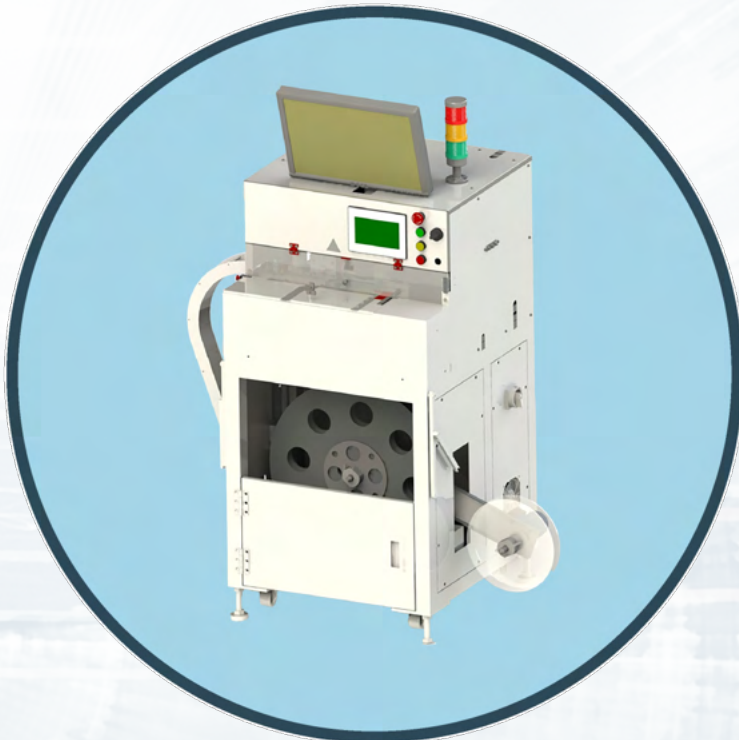
HV-CP



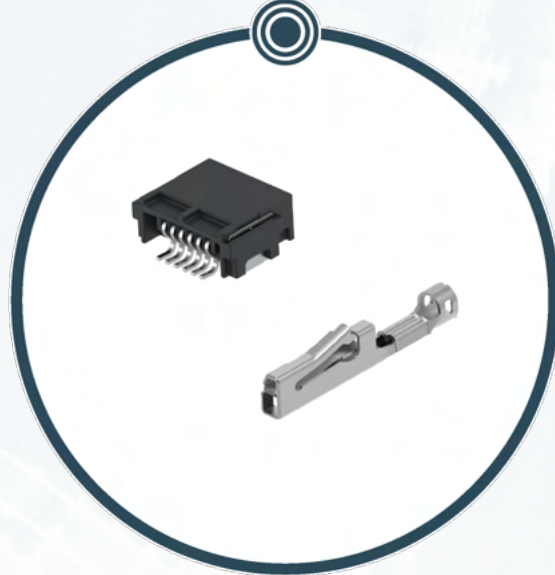
High-Voltage Wire Termination



Flat Flexible Cable Processing



Ocean 2.0 Crimp Applicator



APPLICATION TOOLING

Click on the image to learn more!



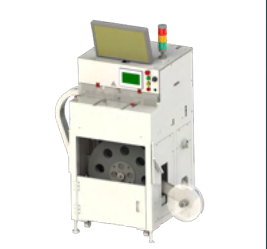
High-Voltage Cable Processing (HV-CP)

- Processes 8 mm² to 120 mm² multi-layered HV cables
- Average cycle time <30 seconds
- Cable position monitoring for accurate processing
- Industry 4.0-ready



High-Voltage Wire Termination (HV-20T)

- Ability to process wires up to 120 mm²
- Greater manufacturing flexibility
- Integrated vacuum system
- Industry 4.0-ready



FFC & FPC Termination Semi Auto Machine

- New high-performance tool for flat flexible cable & flexible printed circuit cable
- Patented crimping process
- Enables better control of terminal position & posture
- Programmable pitch with high accuracy: 1.27 mm to 5.08 mm



Ocean 2.0 Crimp Applicator

- 360° wire crimp height adjustment helps minimize errors
- Pinned baseplate design helps prevent misalignment
- Protective black nitride coating on select components
- Easy-to-access screws allow faster applicator setup and adjustment



Portable Tools

- Hand, battery, pneumatic, & hydraulic solutions available
- Repeatable-quality crimp
- Module design, ergonomic, and easy to use
- Available for select terminals only

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