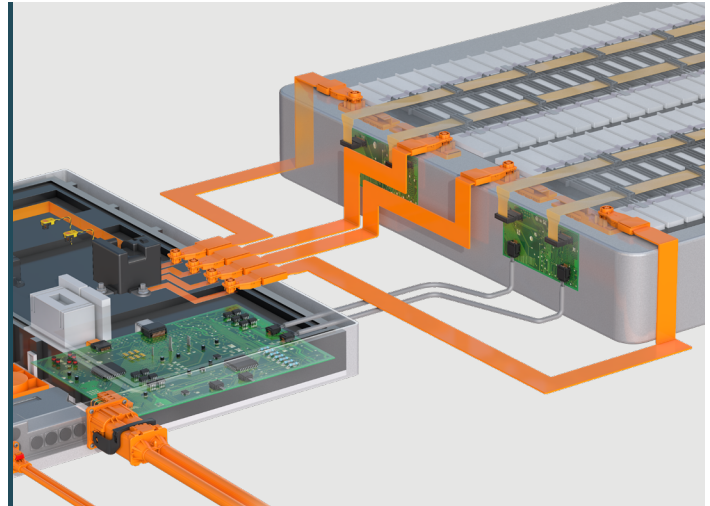


E-MOBILITY SOLUTIONS

Power Management Assembly (PMA)

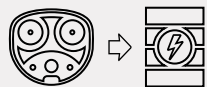
Engineered power distribution for next-generation integrated electrical architectures



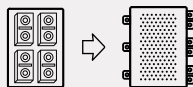
As electrical architectures move to higher voltages and aggressive cost targets, automakers are accelerating the transition from copper to aluminum conductors to reduce weight and improve system efficiency. At the same time, tighter packaging and integrated, busbar-driven systems are making traditional component-based approaches more complex, harder to scale, and more difficult to validate globally.

At TE Connectivity (TE), we work with automakers and system suppliers to design and deliver next-generation power distribution solutions tailored to these challenges. Our Power Management Assembly (PMA) solution delivers a fully engineered, busbar-based power path that supports copper-to-aluminum transitions while helping to reduce integration complexity and accelerate production readiness.

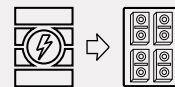
APPLICATIONS



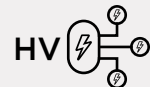
DC Charging Path



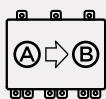
BDU to Inverter



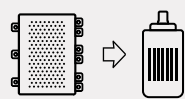
Battery Pack to BDU



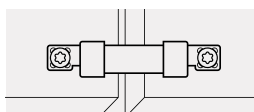
PDU to Auxiliary



Inside Device



Inverter to Motor



Module Interface



Low-Voltage Power



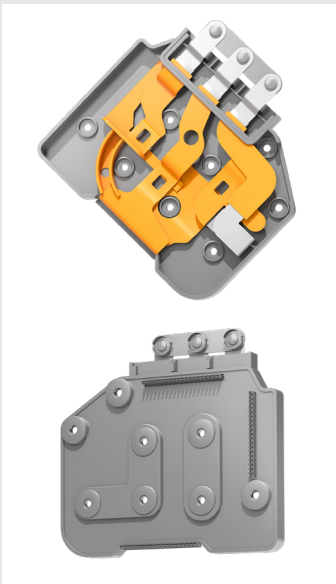
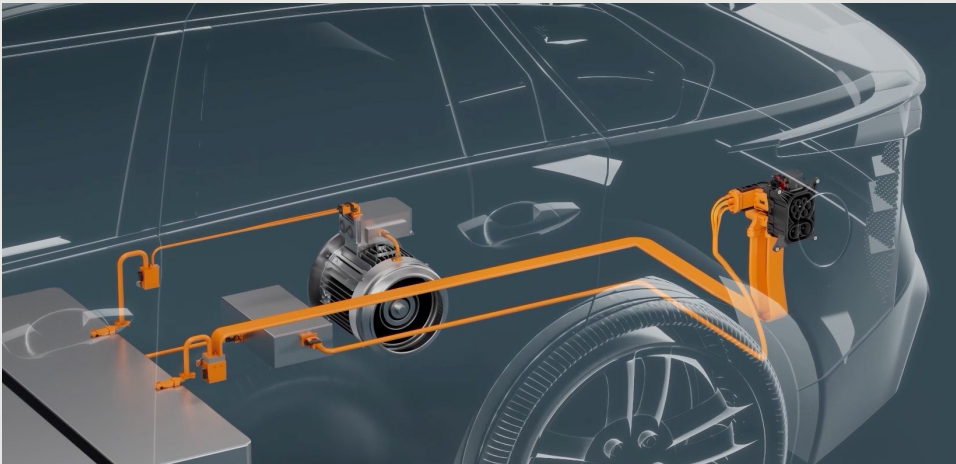
Megawatt Charging

BENEFITS

- **Advanced conductor connectivity:** TE delivers automotive-class solutions for rigid & flexible aluminum or copper power distribution
- **End-to-end support:** concept development, design, prototyping, & global manufacturing
- **Bespoke-engineered solutions:** tailored power distribution architectures based on application requirements
- **Integrated busbar system:** conductor, interface, & joining technologies engineered as a single solution
- **Scalable production:** automation-ready designs aligned to high-volume manufacturing
- **Cost & weight optimization:** material-efficient solutions that support copper-to-aluminum transitions
- **Reduced integration complexity:** single-source solution for connection-to-connection power paths
- **Proven engineering expertise:** TE delivers deep knowledge in high-voltage contact systems & validation
- **Aligned with the latest consumer & commercial xEV trends:** including cell-to-pack, high-current, megawatt charging, & next-generation architectures

Power Management Assembly (PMA)

Engineered power distribution for next-generation integrated electrical architectures



TE’s PMA solution delivers integrated busbar + connector power distribution across vehicle systems, including main circuit, charging path, and battery architectures, as well as inside-device componentry.



System Design & Simulation

- Architecture design
- Thermal simulation



Material & Interface Engineering

- Copper to aluminum transitions
- Contact systems



Busbar Forming & Shaping

- Stamping & 3D bending
- Conductor design



Joining & Assembly Technologies

- Welding & fastening
- Assembly integration



Thermal & Protection Systems

- Thermal management
- Isolation
- EMI shielding



Scalable Manufacturing & Automation

- Automation-ready design
- Global production

TECHNICAL INFORMATION

Current range	Up to ~1000 A (application dependent)
Voltage support	Low voltage: 12 to 72 VDC High voltage: >72 to 1000+ VDC
Materials	Copper, aluminum, hybrid solutions
Integration	Connection-to-connection assemblies
Manufacturing	Automation-ready, high-volume capable

FOR MORE INFO

- Visit te.com/pma, scan the QR code, or contact your sales representative



Placeholder