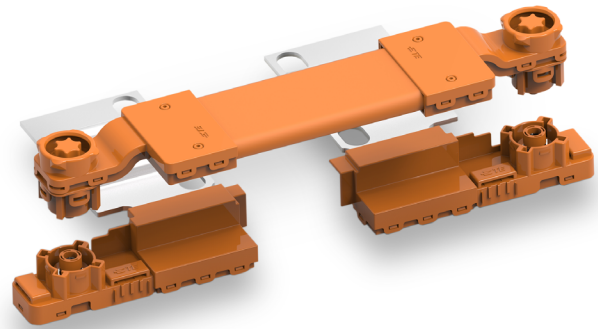


E-MOBILITY SOLUTIONS

BCON+

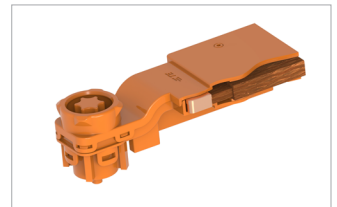
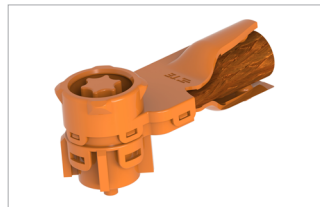
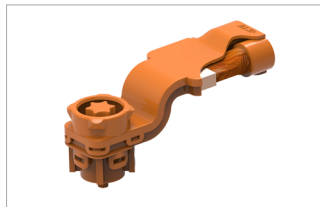
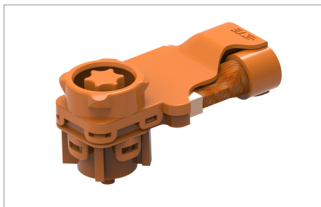
High-Voltage Module and Control Box Connection System

Touch-safe bolt termination for EV traction batteries



An EV's battery is the core of the car's drivetrain. Battery packs rely on failproof connections that can transfer high levels of current and voltage during charge cycles and dynamic acceleration over the course of the car's lifespan.

TE Connectivity's BCON+ high-voltage connection system is a compact, highly functional, low-resistance bolt termination system for connecting modules and control boxes in traction batteries. Each module is connected to the battery system via bolted terminations made of busbars or cables that can carry 500 amps or more of continuous current for several minutes (depending on busbar/cable size and cooling configurations). The connectors are automation-ready, available in a variety of geometries and conductor connections, and can be easily mated and unmated during assembly or service with IPxxB touch safety.



Different geometries and conductor connections available with the BCON+ connection system.

KEY BENEFITS

- High-performance with very low losses
- Flexible: Accepts multiple busbar and cable types (solid, stranded, braided, multilayer), metals (copper, aluminum), sizes, and geometries—welded and weld-less solutions available
- Safe, easy-to-handle: Fully touch-safe bolt termination in mated and unmated states
- Compact: Ultra-flat busbars save valuable space
- Durable: Built for the car's lifetime; vibration-, moisture-, and dust-resistant
- Low heat impact: Unique terminal design minimizes temperature rise
- Proven and tailor-made designs to meet your requirements
- Global design-in support with full R&D, prototyping, and samples

APPLICATIONS

- Module-to-module connections
- Control box connections
- Battery disconnect unit connections

TARGET MARKETS

- Electric vehicle OEMs (passenger cars and commercial vehicles)
- EV battery pack manufacturers
- Component aggregate manufacturers (CAMs)

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