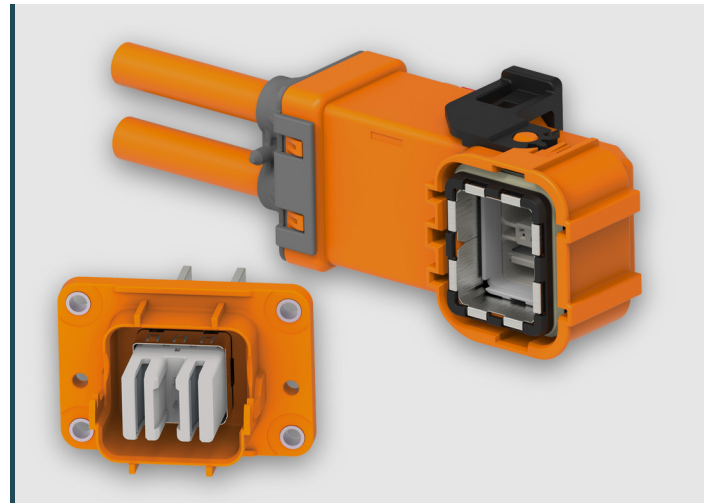


E-MOBILITY SOLUTIONS

HC-STAK 25 High-Voltage Interconnection System

Compact and customizable, HC-STAK 25 connectors deliver proven performance for next-generation xEV platforms

Electric vehicle drivetrains demand increasingly faster acceleration, greater towing capacity, and more compact architectures. Traditional connectors often struggle to balance space constraints, thermal stress, and high current loads, especially during peak performance moments like hill climbing. TE Connectivity's HC-STAK 25 is purpose-built to meet these demands. Its unique double-ended fork

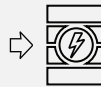


contact system offers up to 40 independent contact points, delivering consistent electrical performance even at tolerance extremes. HC-STAK 25 gives engineers the flexibility to optimize space without sacrificing power. Whether for passenger EVs requiring rapid torque delivery or vehicles designed to haul heavier loads, HC-STAK 25 ensures every surge of power reaches its destination.

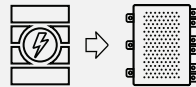
xEV Applications



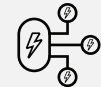
Inlet to Battery



Battery to Inverter



E-motor



Power Distribution

BENEFITS

- **Built for power & acceleration:** maintains electrical integrity under rapid acceleration & high-load scenarios
- **Proven fork-style terminal system:** up to 40 double-ended fork contacts per circuit for reliable connections
- **Scalable power for its size:** supports up to 247 A of current and 1000 VDC in a space-saving footprint
- **Modular contact design:** layered forks can be customized to meet application-specific current requirements
- **Low-resistance interface:** stacked fork contacts flex under stress and are optimized to minimize power loss
- **EMI control:** 360-degree shielding delivers system integrity in highly electromagnetic environments
- **Copper or aluminum ready:** supports ultrasonically welded single-core Al or Cu conductors for flexibility
- **Compact & lightweight:** delivers high current in a small package; simplifies integration in space-constrained areas
- **Touch-safe & sealed:** meets IP2XB and IP6X9X standards for touch protection and environmental sealing

TECHNICAL INFORMATION

Positions & shielding	2p; 360° shielding
Voltage rating	Up to 1000 VDC
Current rating*	Up to 247 A @ 85° C (50 mm ²)
Wire sizes	25, 35, or 50 mm ²
Conductor materials	Copper or aluminum, single-core
Terminal type	2.5 mm double-ended forks
Maximum contact points	Up to 40 per circuit (20 forks)
Termination type	Welded (can be ultrasonic)
Operating temperature	-40° C to +150° C
Additional features	IP2XB finger protection Vibration severity degree 2 Automation-ready

* Higher continuous current levels require copper wire.

FOR MORE INFO

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

