

## E-MOBILITY SOLUTIONS

# HC-STAK Series High-Voltage Interconnection System

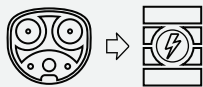
A customizable connector family for xEV drivetrains that enables higher power performance and design flexibility

As electric vehicle architectures evolve to meet escalating power and performance demands, TE Connectivity's HC-STAK family delivers a robust, scalable solution for high-voltage drivetrain interconnection. Designed for the vital links between the battery, inverter, power distribution units, and e-motors, the HC-STAK portfolio enables safe, efficient, and compact power transfer.

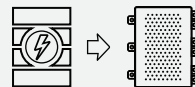


What makes the HC-STAK family unique is not just its technological integrity, but its flexibility, scalability, and performance. All variants support either copper or aluminum single-core conductors and full 360° shielding to guard against EMI. HC-STAK connectors are engineered to align with global standards, making them well suited for integration across multiple vehicle platforms and geographies.

### xEV Applications



Inlet to Battery



Battery to Inverter



E-motor



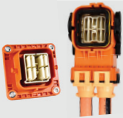


Power Distrib.

## BENEFITS

- **Built for power & acceleration:** successfully deployed in high-demand EV applications where acceleration and towing power are critical, including passenger cars, delivery vans, and electric pickup trucks
- **Scalable power range:** supports currents between 248 A to 400 A depending on connector variant & wire size
- **High-voltage capability:** rated for up to 1,000 VDC, enabling compatibility with modern EV architectures
- **Modular contact design:** layered fork terminals allow up to 64 contact points per circuit for greater flexibility
- **Low-resistance interface:** fork-style terminals & optional ultrasonic welding significantly reduce power loss
- **EMI control:** 360-degree shielding delivers system integrity in highly electromagnetic environments
- **Copper & aluminum support:** Al & Cu single-core conductor alternatives enable cost-efficient optimization
- **Compact & lightweight:** delivers high current in a small package; simplifies integration in space-constrained areas
- **Automation-ready:** compatible with automated assembly processes for scalable production & reduced costs

## TECHNICAL INFORMATION

			
	HC-STAK 25	HC-STAK 25 XE	HC-STAK 35
Max. Current*	247 A	296 A	400 A
Max. Voltage	1000 VDC	1000 VDC	1000 VDC
Max. Wire Size	50 mm <sup>2</sup>	70 mm <sup>2</sup>	95 mm <sup>2</sup>
Terminal Type	2.5 mm forks	2.5 mm forks	3.5 mm forks
Max. # Forks	20 per circuit	20 per circuit	32 per circuit
Termination	Welded	Welded	Welded
Conductor	Cu or Al	Cu or Al	Cu or Al

\* Higher continuous current levels (at 85° C) require copper wire.

## FOR MORE INFO

- Visit [te.com/hc-stak](https://te.com/hc-stak)
- Scan the QR code
- Contact your sales representative

