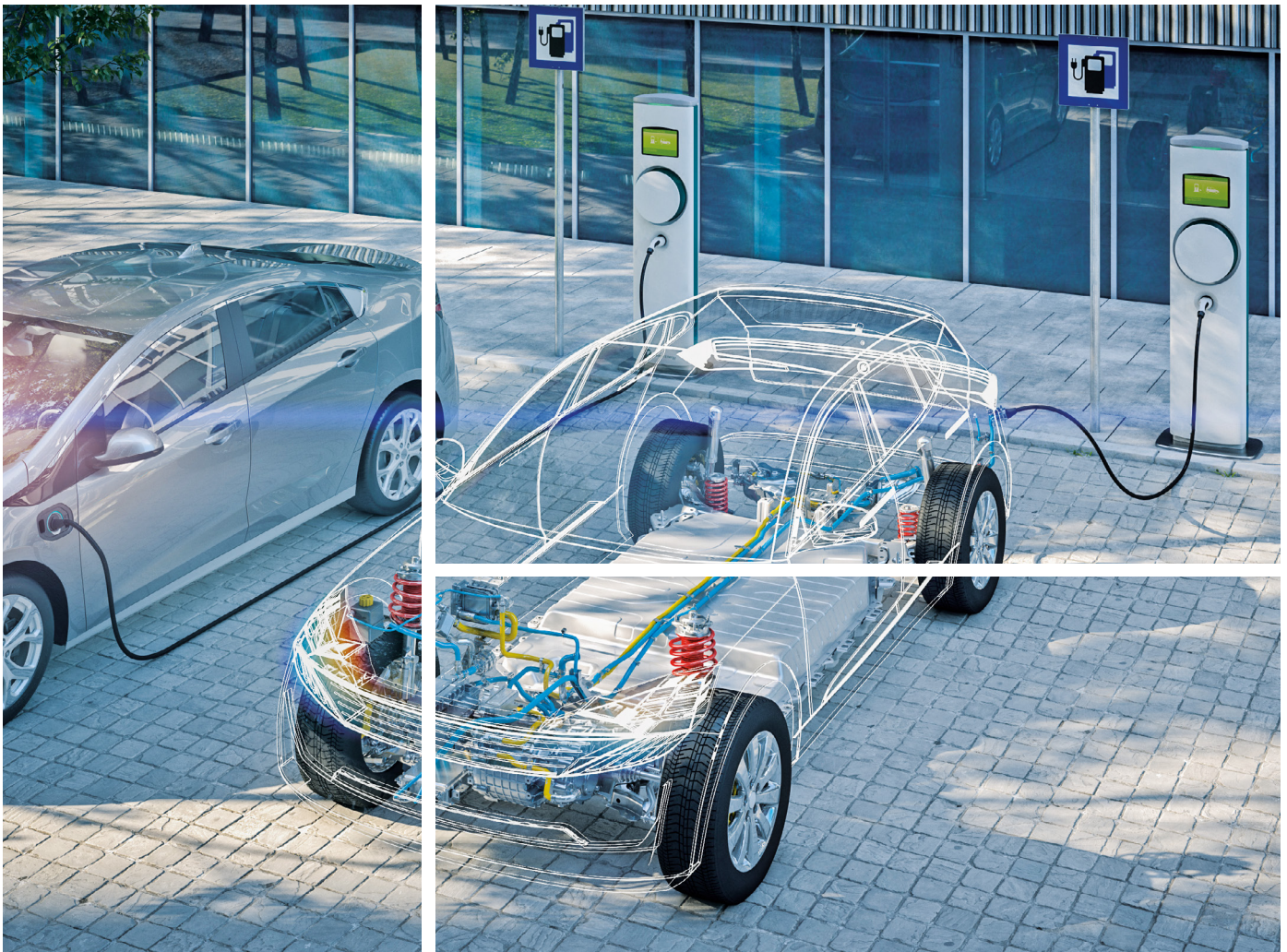


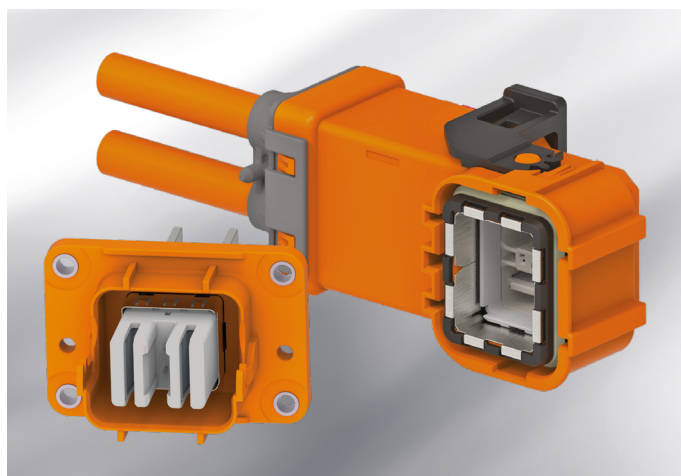
HC-STAK 25 HV INTERCONNECTION SYSTEM

HIGH-VOLTAGE
AUTOMOTIVE INTERCONNECTION



HC-STAK 25 HV Interconnection System

The HC-STAK 25 high-voltage (HV) interconnection system is specifically designed to support the increased connectivity requirements in high-voltage interconnection systems of hybrid and all-electric vehicles. It provides a safer and reliable connection between the HV battery and the inverter or power distribution / e-motor.



HC-STAK 25 interconnection system features a high performance interconnection system that is both scalable and capable of reliable high-power distribution to each aggregate throughout the lifetime of the vehicle. A noteworthy double ended-fork terminal system provides a low contact resistance arrangement while meeting sealing, shielding, and touch-safe requirements in a very compact package. It has the flexibility to interconnect with a wide range of conductor cross-sections, geometry, and materials.

Product highlights

- Suitable for connector voltage levels up to 1,000 VDC
- Very compact dimensions 50 x 57 x 116 mm
- Wire range from 25 mm² to 50 mm²
- Current capability 257 A at 85°C (50 mm²)
- Connector options 90° plug and 180° header
- Multiple contact points up to 40 per circuit
- Double-ended fork contact
- Vibration level USCAR V1

Typical applications

Hybrid and electric vehicle powertrains:

- HV battery and inverter
- Power distribution / e-motor.

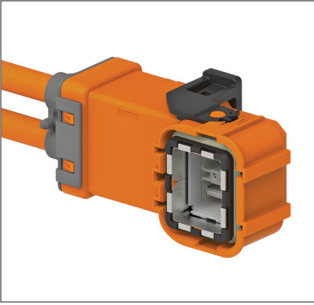
For more information visit our websites

HC-STAK 25 HV Interconnection System
te.com/HC-STAK

Hybrid & Electric Mobility Solutions
te.com/hems

Next-Generation Mobility
High-Voltage Connectivity Solutions
te.com/next-gen-mobility

Connectivity Solutions - From the Charging Inlet
through the Battery to the E-Motor
te.com/electrifying-a-movement



Applications

- Inverter
- HV Battery
- E-motor

Technical Features

Poles:

2

Terminal Size / System:

2.5 mm / Fork contact

Conductor Cross-Sections:

25 mm² – 50 mm²

Wire Type:

Shielded

Tab Size:

42.4 mm x 2.5 mm x 23 mm

Voltage Rating:

1,000 VDC

Temperature Range:

-40°C up to 125°C

Current Carrying Capability:

257 A at 85°C (50 mm²)

IP Rating, Mated:

IP6K7, IP6K9K

IP Rating, Unmated:

IP2XB

HV Interlock Option:

Shunted in Plug

Latch Access Type:

Lever

CPA:

Yes

Fire Classification:

V0 (Inner Housing)

Vibration Level:

USCAR-2 Class V1

Shielding / Options:

Yes

Available Codings:

A, B

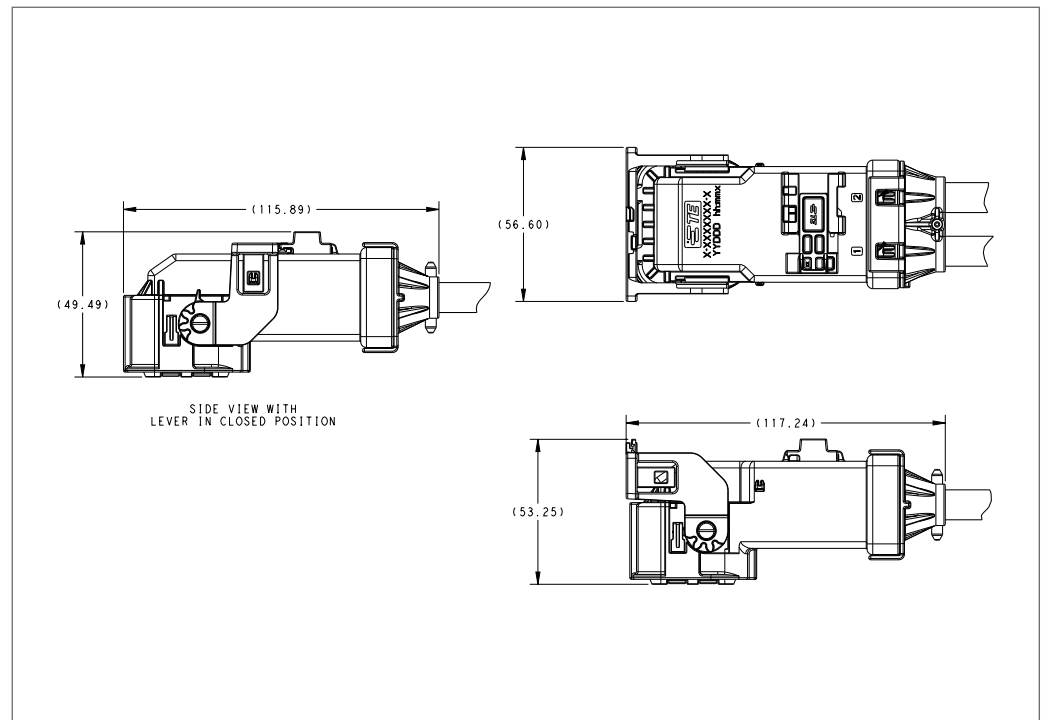
Product Specification:

108-160108

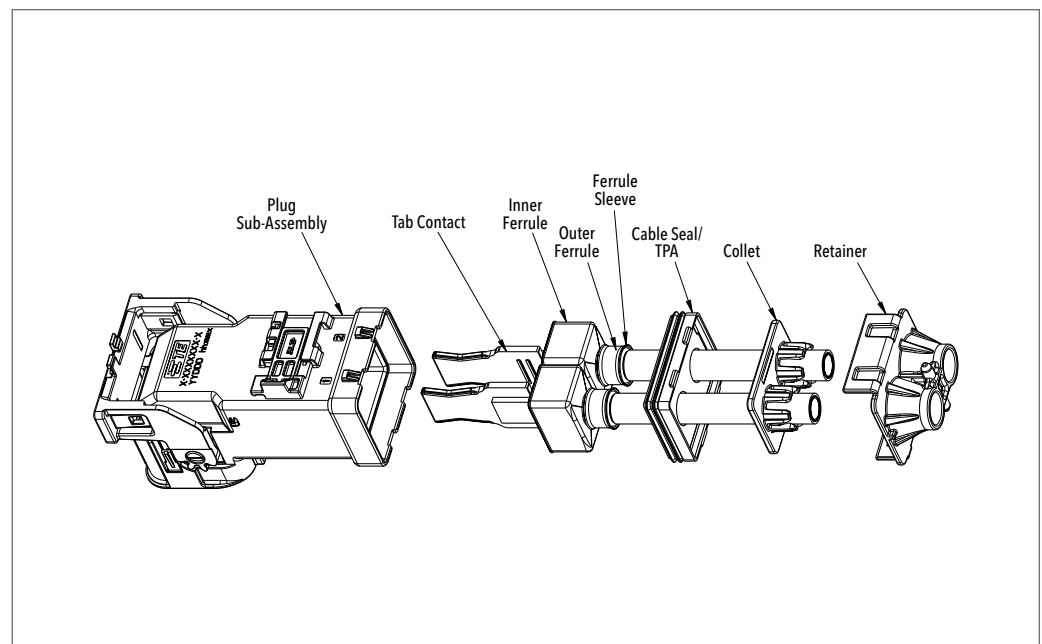
Application Specification:

114-162001

HC-STAK 25 2 p hi - Plug 90°



Drawing 2349157 *





Applications

- Inverter
- HV Battery
- E-motor

Technical Features

Poles:

2

Terminal Size / System:

2.5 mm / Fork contact

Conductor Cross-Sections:

25 mm² – 50 mm²

Wire Type:

Shielded

Voltage Rating:

1,000 VDC

Temperature Range:

-40°C up to 125°C

Current Carrying Capability:

257 A at 85°C (50 mm²)

IP Rating, Mated:

IP6K7, IP6K9K

IP Rating, Unmated:

IP2XB

HV Interlock Option:

Yes

Latch Access Type:

Lever

Fire Classification:

V0

Vibration Level:

USCAR-2 Class V1

Shielding / Options:

Yes

Available Codings:

A, B

Product Specification:

108-160108

Application Specification:

408-160030

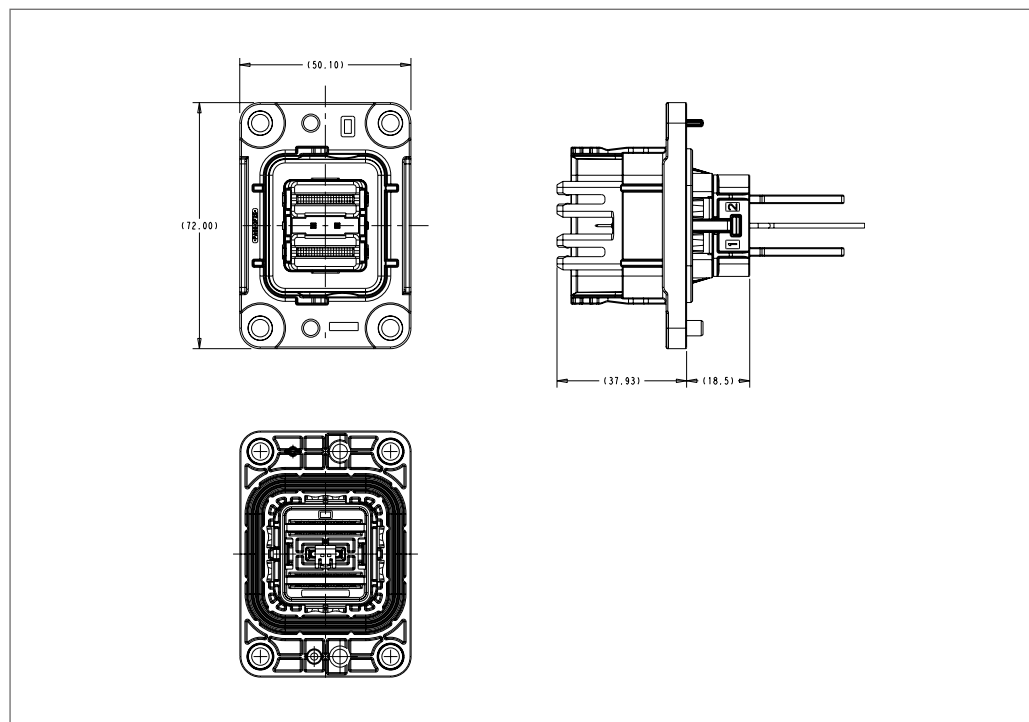
Inner Housing:

2359563-1

Interface Drawing:

2343034

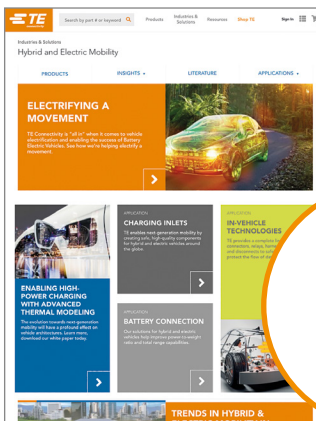
HC-STAK 25 2p hi - Header



Drawing 2379307 *

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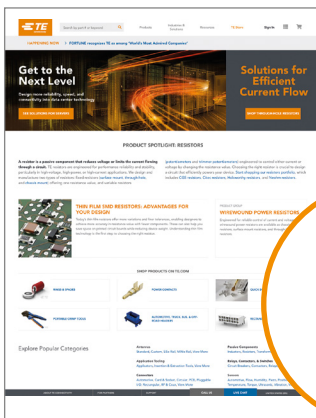
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HYBRID & ELECTRIC MOBILITY APPLICATION

Learn more about TE Connectivity's (TE's) hybrid and electric mobility solutions and applications under:

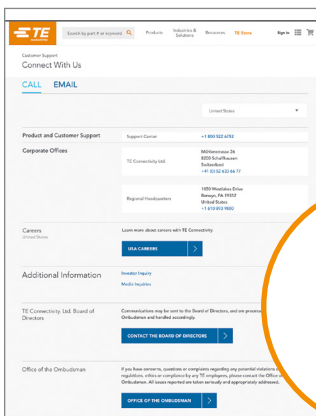
www.te.com/hybrid-electric-mobility



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