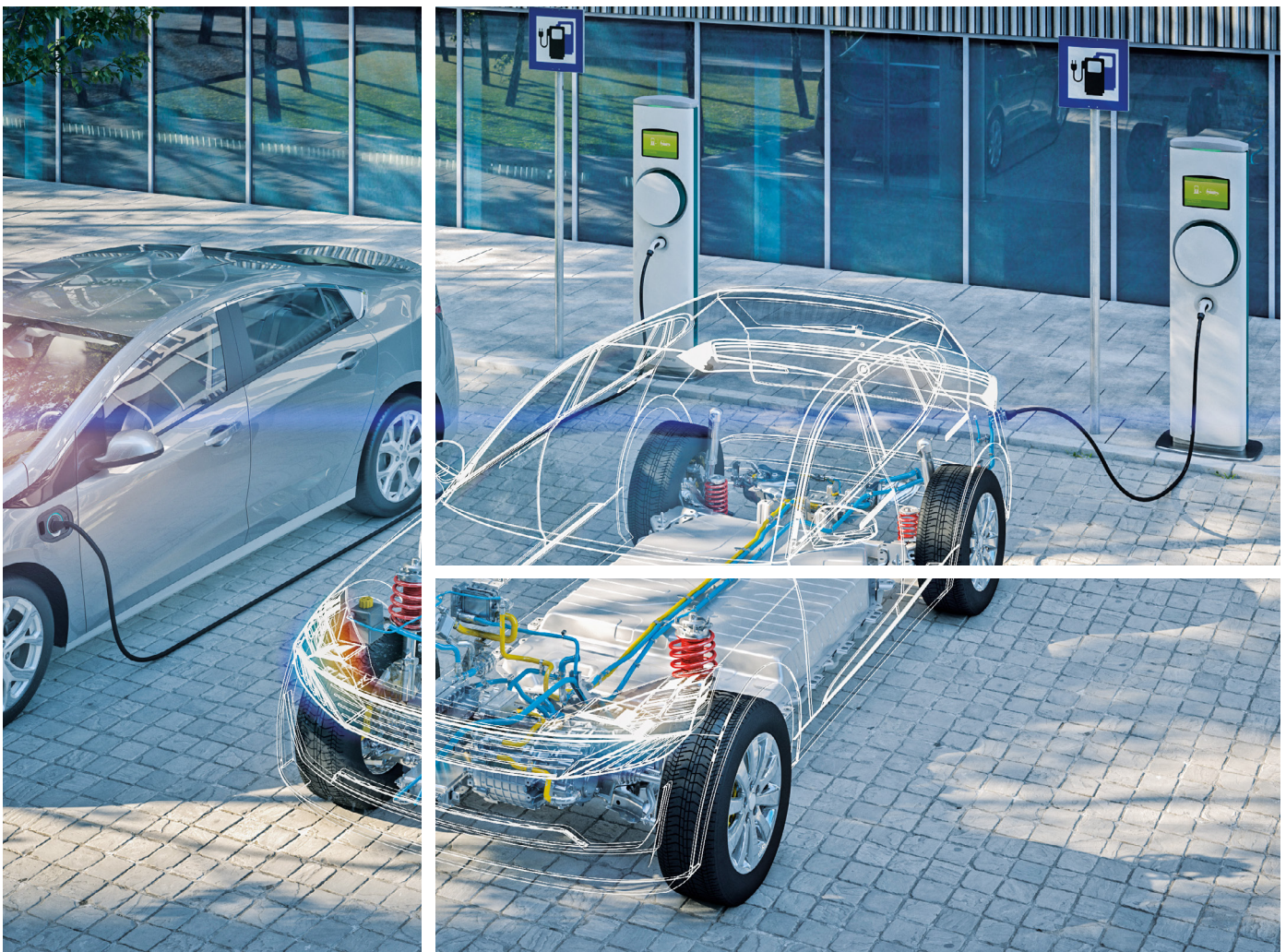


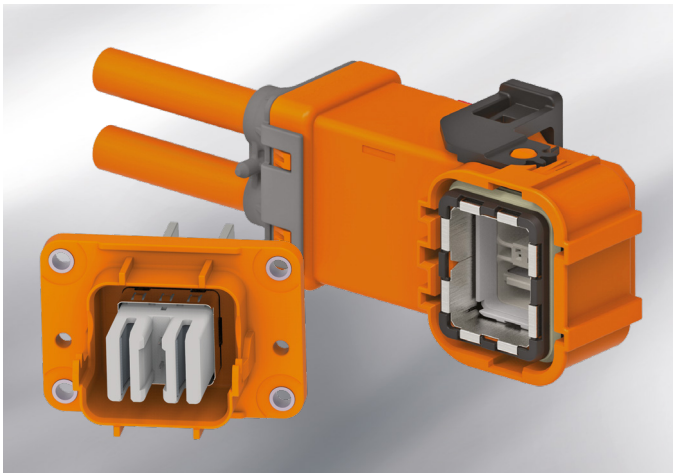
# HC-STAK 25 HV INTERCONNECTION SYSTEM

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 mm<sup>2</sup> to 50 mm<sup>2</sup>
- Current capability 257 A at 85°C (50 mm<sup>2</sup>)
- 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](https://te.com/HC-STAK)

Hybrid & Electric Mobility Solutions

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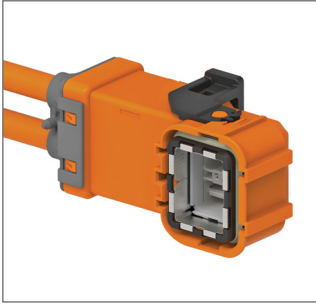
Next-Generation Mobility

High-Voltage Connectivity Solutions

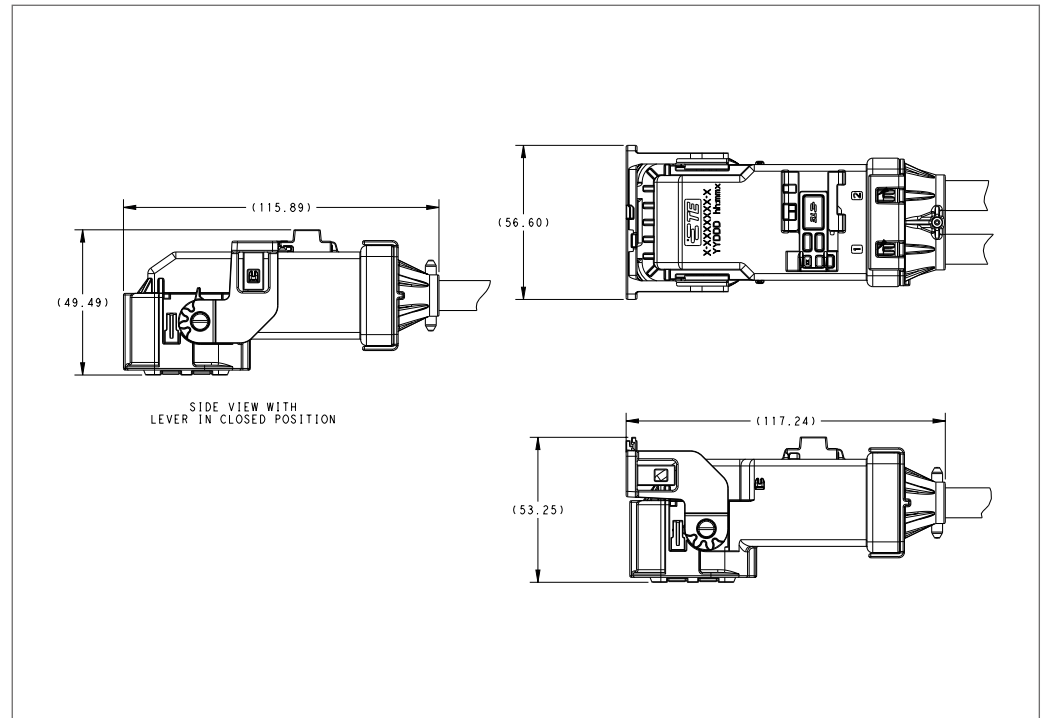
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Connectivity Solutions - From the Charging Inlet through the Battery to the E-Motor

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HC-STAK 25 2 p hi - Plug 90°



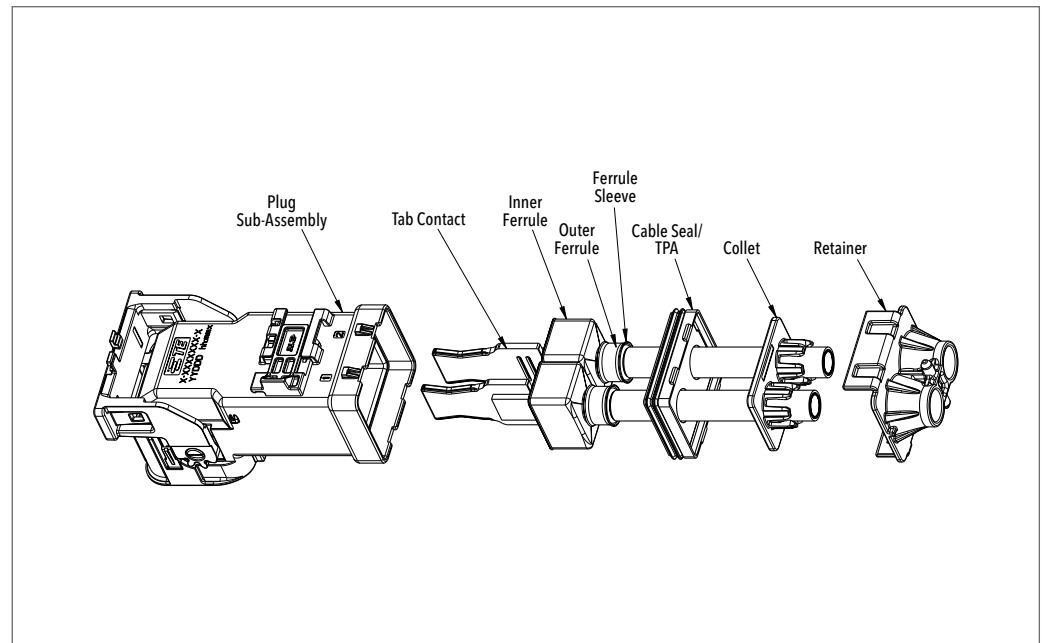
Drawing 2349157 \*

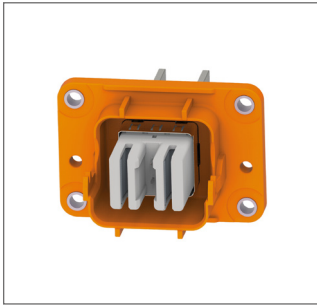
**Applications**

- Inverter
- HV Battery
- E-motor

**Technical Features**

- Poles:**  
2
- Terminal Size / System:**  
2.5 mm / Fork contact
- Conductor Cross-Sections:**  
25 mm<sup>2</sup> - 50 mm<sup>2</sup>
- 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 mm<sup>2</sup>)
- 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





**Applications**

- Inverter
- HV Battery
- E-motor

**Technical Features**

**Poles:**

2

**Terminal Size / System:**

2.5 mm / Fork contact

**Conductor Cross-Sections:**

25 mm<sup>2</sup> – 50 mm<sup>2</sup>

**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 mm<sup>2</sup>)

**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

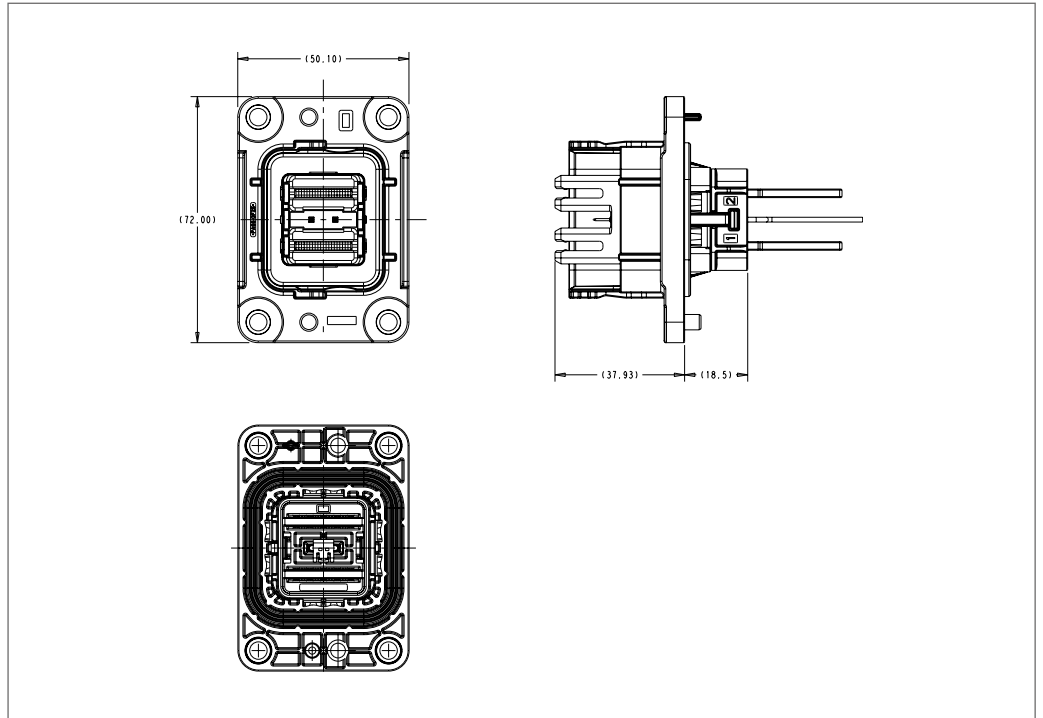
**Inner Housing:**

2359563-1

**Interface Drawing:**

2343034

HC-STAK 25 2p hi - Header



Drawing 2379307 \*



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## TE CONNECTIVITY ONLINE

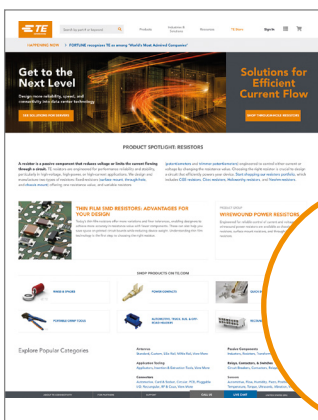
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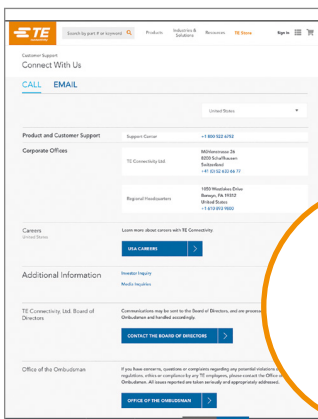
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