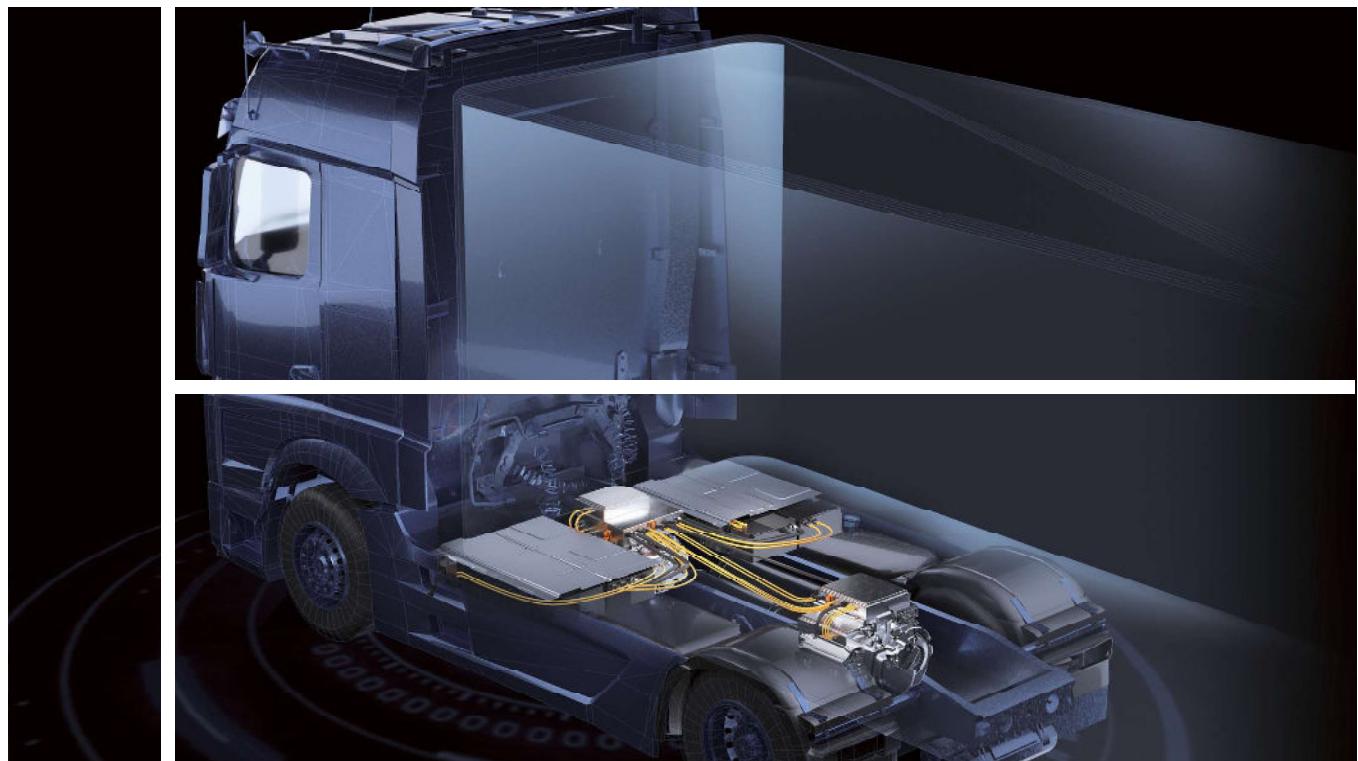


# **HVS CONNECTOR**

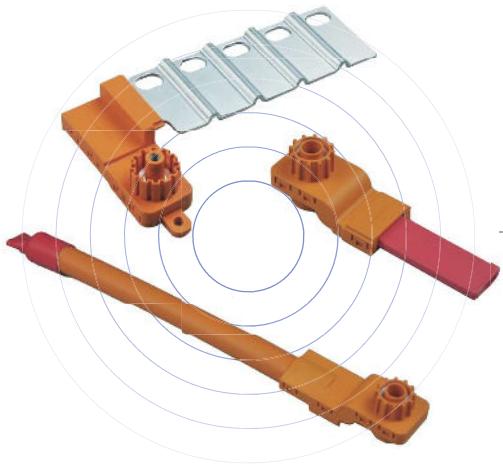
## **EV battery Module High Voltage **SOLUTIONS****

### **Product Catalog**

2025.Oct Rev A



# HVS Series



## HVS Series Touch-safe bolt termination EV battery Module High Voltage Connection (with busbar)

Amphenol GEC's new HVS high-voltage connection system is a versatile, compact, robust, and touch-safe solution for interconnecting cell modules inside a traction battery and high-voltage connection points outside the battery. HVS connection system combines the advantages of solid steel-to-steel bolt termination with the extremely low contact resistance of copper contact elements. The system is touch-safe in unmated and mated conditions. It flexibly interconnects with a large number of available conductors and cross-sections.

The impedance is very good, which is suitable for electrical connection between various battery modules. We can ensure that we leverage our advantages to provide solutions that meet customer's needs.

### Key Features

#### Electric

- Rated voltage: 1000V
- Rated current: 400A max (with 95mm<sup>2</sup> cable out)
- Insulation resistance: 500MΩ
- Dielectric withstanding voltage: 5000V DC

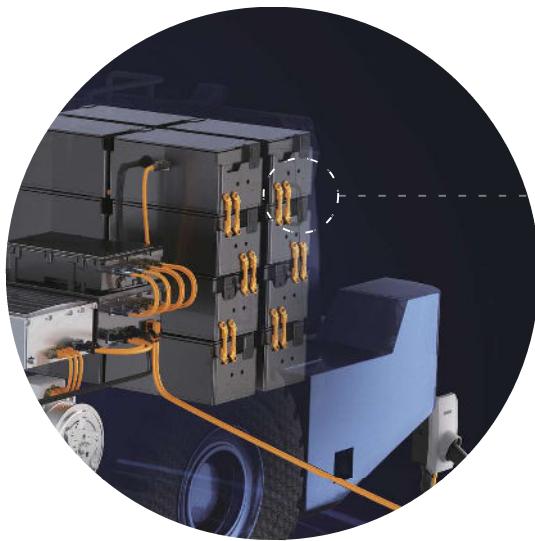
#### Environmental

- Operating temperature: -40~+140°C
- Inflammability: UL94 V-0
- IP degree: IPXXB ISO 20653
- Neutral salt spray: 960H for Fasteners

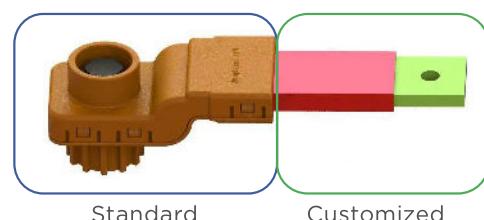
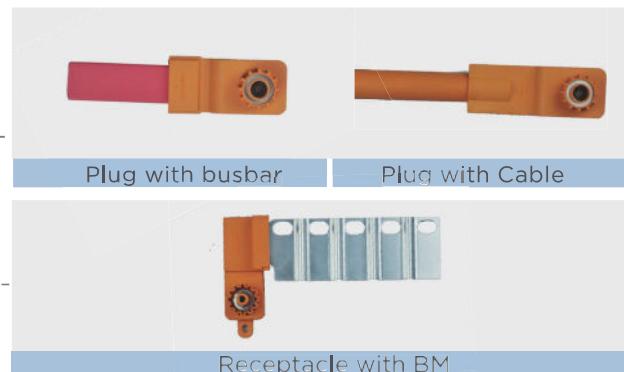
#### Mechanical

- Keys: 2
- Mating and screw cycles: 25max
- Vibration: SG 3/LV215
- Wire Range: 95mm<sup>2</sup> max
- Connection method: Assembly(Receptacle), Crimping(Plug)





Battery Module



## Ordering Information

HVS	-	O	W	A	-	400	-	BDU	XXX
Product Type	Connector Type	Connection Method		Positioning Code		Current		Accepted Type	Customization
HVS Connector	O Receptacle	W Welding	A	30 deg	400	400A	BM	Battery Cell connector	Defined by customer

HVS	-	1	W	A	-	400	-	1C	-	095	-	090
Product Type	Connector Type	Connection Method		Positioning Code		Current		Accepted Type		Cable Size		Customization
HVS Connector	1 Straight Plug	W Welding	A	30 deg	400	400A	1C	Cable	095	95mm <sup>2</sup>	Straight Plug: Height	Angled Plug: Degree
	2 Angled Plug											

## CONTACT US

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