



New AMP+ HVP 800 1 Position CONNECTORS OFFER SAFETY AND RELIABILITY FOR NEW ENERGY VEHICLES

Part of an Expanding HV Interconnection
System from TE Connectivity

New energy vehicles such as hybrid and electric vehicles are gaining in popularity and usage in the marketplace. With the voltage and current in these vehicles continuously being upgraded, the performance requirements of components have become more stringent than ever before. In this high-voltage (HV), high-current environment, the safety of new energy vehicles has become paramount. For your applications, you need a partner with a successful track record.



A Broad Portfolio — Safe, Sustainable, and Robust

TE Connectivity (TE) has more than 50 years of experience in automotive connectivity and high voltage electricity. We have pushed innovations from one industry to the next. Today, we enable the connections you require to safely, efficiently, and reliably make sustainable hybrid and electric mobility a reality.

TE's new **AMP+ HVP 800 1 position** connectors are designed for your hybrid and electric vehicle needs for:

Battery pack

Power distribution unit

Motor control unit

Powertrain and electric motor applications

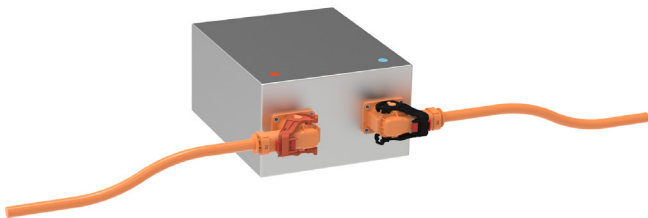
This newly designed AMP+ HVP 800 1 position connector also meets LV standards.

AMP+ HVP 800 1 Position Connectors – Key Features and Benefits

Imagine safe, more sustainable, and more convenient ways of getting around. That's the goal of TE's focus on hybrid and electric mobility, and its connector series. Here are three key benefits:

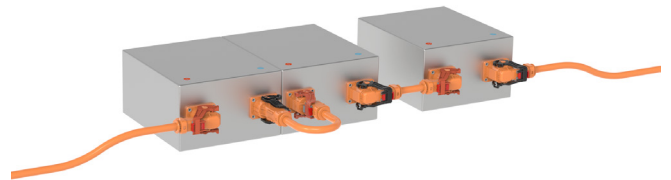
Pack to pack — A sustainable connection

TE's new AMP+ HVP 800 1 position connectors are designed for efficient, sustainable battery power connections. The red and black levers make it easy to identify the positive and negative terminals on the battery pack. And thanks to the high ingress protection (IP), our connectors are fully protected against water or dust from entering the battery pack. The connectors have a rating of IP67 and IP6K9K.



Point to point — Flexibility in your design

The AMP+ HVP 800 1 position connector gives you far more flexibility in your cable design and routing. It provides a point-to-point connection to your battery pack and will meet a range of design needs with both 90-degree and 180-degree connectors, as well as different lever orientations.



Power to power — Protection and convenience

You can crimp 25/35/50mm² (16mm² will be available soon) cables with TE's new AMP+ HVP 800 1 position connectors. The busbar design offers safety and convenience. On the header, the design makes it easy to connect to the busbar inside of your power equipment. The optional shipping cap brings additional protection to the header terminal and prevents moisture from getting inside your power system.

AMP+ HVP 800 1 Position Plug Assembly

CABLE DIRECTION	LEVER ORIENTATION	CABLE SIZE	PART NUMBER	PART DIMENSIONS (MM)
90°	NA	50mm ²	2324136-X	
		35mm ²	1-2324136-X	
		25mm ²	2-2324136-X	
		16mm ²	Coming Soon	
180°	Normal	50mm ²	2324086-X	
		35mm ²	2-2324086-X	
		25mm ²	4-2324086-X	
		16mm ²	Coming Soon	
	Reverse	50mm ²	1-2324086-X	
		35mm ²	3-2324086-X	
		25mm ²	5-2324086-X	
		16mm ²	Coming Soon	

AMP+ HVP 800 1 Position Header Assembly

BUSBAR NUT SIZE	SHIPPING CAP	PART NUMBER	PART DIMENSIONS (MM)
NA	No	2324108-X	
	Yes	2-2324108-X	
M8	No	4-2324108-X	
	Yes	5-2324108-X	

Note: X=1-6, Coding=A-F

AMP+ HVP 800 1 Position Header Accessories

DESCRIPTION	PART NUMBER
Shipping cap	2301385-1
Mounting adapter	2301378-1

AMP+ HVP 800 1 Position Header MCON HVIL Terminals

SERIES	WIRE CABLE	PLATING	PART NUMBER
MCON 1.2mm Terminal	0.5-0.75mm ²	Ag	1418760-3

Specifications

For connectors:

- Operating temperature: -40°C-140°C
- Voltage range: 850V/1000V *(Coming Soon)*
- Conductor cross-sections: 25/35/50mm²
(16mm² Coming Soon)
- Current carrying capacity: 200A @85°C
- Vibration level: LV214-L2
- CPA: Yes
- HVIL: Yes
- Fire classification: UL94-V0
- Terminal plating: Ag
- IP rating:
 - Mated: IP67 IP6K9K
 - Unmated: IPx2B
- Product specifications: 108-101439 & 108-101481
- Application specifications: 114-101062 & 114-101063

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