

HVA HD400 HIGH VOLTAGE ACCESSORY CONNECTORS

High performance and versatility
in a compact package

As electrification picks up pace in industrial and commercial transportation, ensuring that high voltage accessories like HVAC, power steering, and hydraulic pumps are performing to expectations in the field is more important than ever. TE Connectivity's (TE) HVA HD400 connectors are the right choice for high voltage accessories, vehicle-wide.

High voltage accessories in hybrid and electric industrial and commercial vehicles play an important role. Whether it's HVAC, heater, hydraulic pumps or the electrical power steering, they may not be providing motive power, but they certainly are ensuring that the vehicle runs properly, safely, and reliably while providing a degree of comfort to the end user. This means that however you design these subsystems, they must also run safely and reliably for a long time regardless of operating conditions. Dust, sand, moisture, vibrations – the product must stand up to it, and so must whatever is used to connect these accessories.

TE's HVA HD400 high voltage accessories connector is just the connectivity system for the job. Compact and adaptable, the design allows for either 2 or 3 conductors in the same interface, handling 2.5, 4 and 6 mm² LV216 conductor cross-sections single-core cabling (multi-core and ISO cabling on the way). Capable of handling up to 1000 VDC, and 60 A (at 80°C). With an operating temperature of -40°C to +140°C, dust and water ingress protection rating of IP68 and IP6K9K, contact position assurance (CPA), as well as ability to withstand transmission-level vibrations, the HVA HD400 connector can perform reliably in the most extreme of environments. Regardless of where in the vehicle the high voltage accessory is, you can deploy the HVA HD400 connector.

KEY BENEFITS

High Level of Performance

- Capable of handling up to 1000 VDC, and 60 A (at 80°C)
- Can withstand transmission-level vibrations
- Connector Position Assurance (CPA) for additional security
- High protection level – IP68 IP6K9K and sand and dust protection on lock structure

Form AND Function

- 2 or 3 positions in same interface for compact design

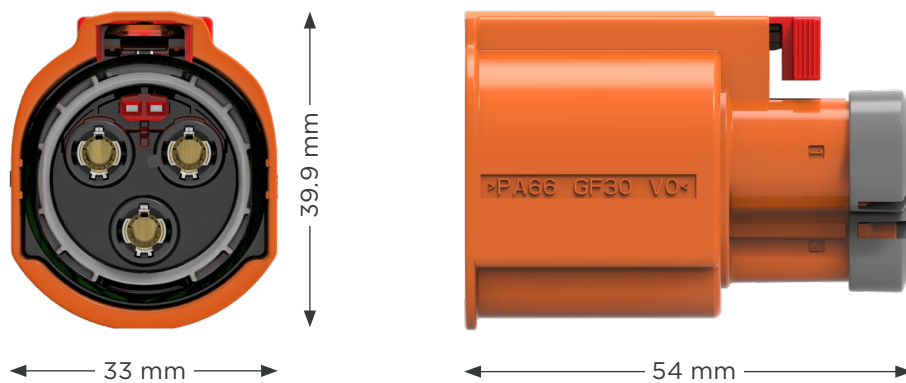
Adaptability

- Designed for use with nearly any high voltage accessory in the vehicle
- Wide array of cable sizing: can handle 2.5, 4 and 6 mm² LV216 conductor cross-sections single-core cabling (multi-core and ISO cabling on the way)
- Available for automation cable assembly

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DIMENSIONS



PLUG HOUSING

Cavity	Part Number	# / Assembly
2	1-2371035-1/-2/-3	1
3	2371035-1/-2/-3	1

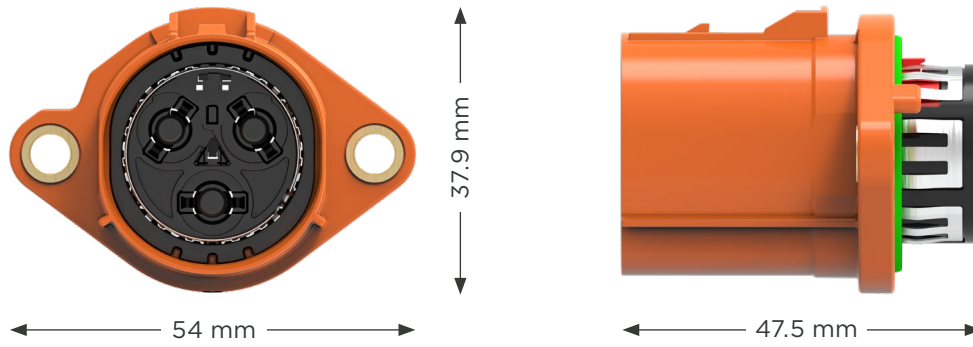
INDIVIDUAL COMPONENTS

	Cable Size			# / Assembly
	2.5 mm ²	4.0 mm ²	6.0 mm ²	
Socket Terminal	2-2349177-1	2-2349177-2	2-2349177-2	2 or 3
Outer Ferrule	2371243-1	2371243-1	2371243-1	2 or 3
Inner Ferrule	2371242-1	2371242-2	2371242-3	2 or 3
Single Wire Seal	2371244-1	2371244-2	2371244-3	2 or 3
Seal Retainer	2371245-1	2371245-2	2371245-3	2 or 3



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HEADER OVERVIEW

# Cavities	Part Number		# / Assembly
	With Coding	Without Coding	
			
2	2-2371113-1/-2/-3	3-2371113-1/-2	1
3	2371113-1/-2/-3	1-2371113-1/-2	1

INDIVIDUAL COMPONENTS

	Cable Size			# / Assembly
	2.5 mm ²	4.0 mm ²	6.0 mm ²	
Pin Terminal	2349180-1	2349180-2	2349180-2	2 or 3

SPECIFICATIONS

Operating Temperature

- 40°C to +140°C

Voltage Range

- 1000 VDC

Conductor Cross-sections

- 2.5/4.0/6.0 mm² LV216 (ISO coming soon)
- Single-core (multi-core coming soon)

Current Carrying Capacity

- 60 A @80°C

Vibration Level

- LV214-S3
- ISO 16750-3 Chassis (ongoing validation)

Cavities

- 2 or 3

Fire Classification

- UL94-V0

IP Rating

- IP68, IP6K9K

Product Specification

- 108-160170

Application Specification

- 114-160093/114-160095

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