



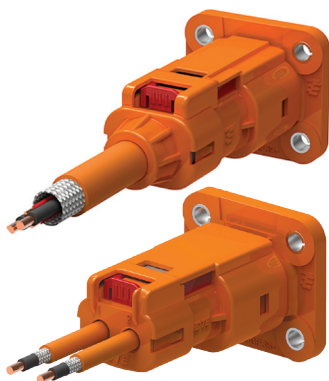
## Options to Match Your Vehicle Architecture

### AMP+ Low-Medium Current Connectors and Headers

TE Connectivity's AMP+ HVA 280 finger-proof, touch safe 2 or 3 position low-medium current connectors and headers are designed for flexibility with options needed for various hybrid/electric vehicle device applications. With a current carrying capability up to 40A\* at 85 °C and a cable range of 2-4mm<sup>2</sup> the AMP+ HVA 280 connectors and headers can be utilized with multi-core or individually shielded wire. The system provides multiple latching options and an integrated internal HVIL allowing for package size optimization and routing flexibility.

- Common package size for 2 & 3 position connections
- Common header footprint for multi-core and individual shielded wires
- 2 stage unlatching for effective HVIL functionality
- Shunted and pass-thru HVIL provides flexibility in system design

## AMP+ HVA 280 Low-Medium Current Connectors and Headers



### HVA 280 KEY FEATURES

- Safety: Touch proof (finger safe)
- Safety: 2 stage unlatching for effective HVIL functionality
- Common package size for 2 & 3 position connections
- Common header footprint for multi-core and individual shielded wires
- Common plug that will mate to header and/or in-line system
- Plastic header or die cast aluminum header
- Shunted or pass-thru HVIL feature provides flexibility in system design
- Unmate using tool or finger

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### APPLICATIONS

- Battery pack
- DC/DC converter
- On-board charger
- Electric heater
- Electric air conditioning
- Electric power steering
- High voltage power distribution

### MECHANICAL

- Terminal: 2.8mm MCP, 064 MQS
- Wire range: 2-4mm<sup>2</sup> multi-core or individual shielded wire
- Latching style: Two-stage, tool or finger actuated
- HVIL: Integrated, internal
- CPA available
- Inline cap with HVIL

### ELECTRICAL

- Voltage rating: Up to 600V individually shielded wire  
Up to 750V multi-core wire
- Current rating: Up to 40A\* @ 85 °C
- Temperature range: -40 °C to 140 °C\*
- Shielding: 360° from wire to device
- IP rating: Mated: IP67, IP6k9k  
Unmated: IP2xb

### STANDARDS AND SPECIFICATIONS

- USCAR
- RoHS compliant
- LV 215-1
- IEC 60529

### PRODUCT OFFERING

Options	Reference Plug P/N	Reference Mating Header P/N	Reference Mating In-line P/N	Application Specification
<b>2 Position Individually Shielded Cable</b>				
Tool Actuated	2103176	1587831-X 1587975-X 2103124-X	2103220-X 2103221-X 2103219-X	114-13259
Finger Actuated	2103176	1587831-X 1587975-X 2103124-X	2103220-X 2103221-X 2103219-X	114-13259
<b>2 Position Multi-Core Shielded Cable</b>				
<b>Shunted HVIL</b>				
Tool Actuated	2103014	2103124-X	2103220-X 2103221-X 2103219-X	114-13305
Finger Actuated	2103014	2103124-X	2103220-X 2103221-X 2103219-X	114-13305
<b>Pass-Thru HVIL</b>				
Tool Actuated	2103163	2103124-X	2103220-X 2103221-X 2103219-X	114-13310
Finger Actuated	2103163	2103124-X	2103220-X 2103221-X 2103219-X	114-13310
<b>3 Position Multi-Core Shielded Cable</b>				
Tool Actuated	2103197	1587727-X 1587973-X	N/A	114-13253
<b>Intelligent Plug</b>				
Finger Actuated	2103149	1587831-X 1587975-X 2103124-X	2103220-X 2103221-X 2103219-X	N/A



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\* Depends on cable size and cable construction