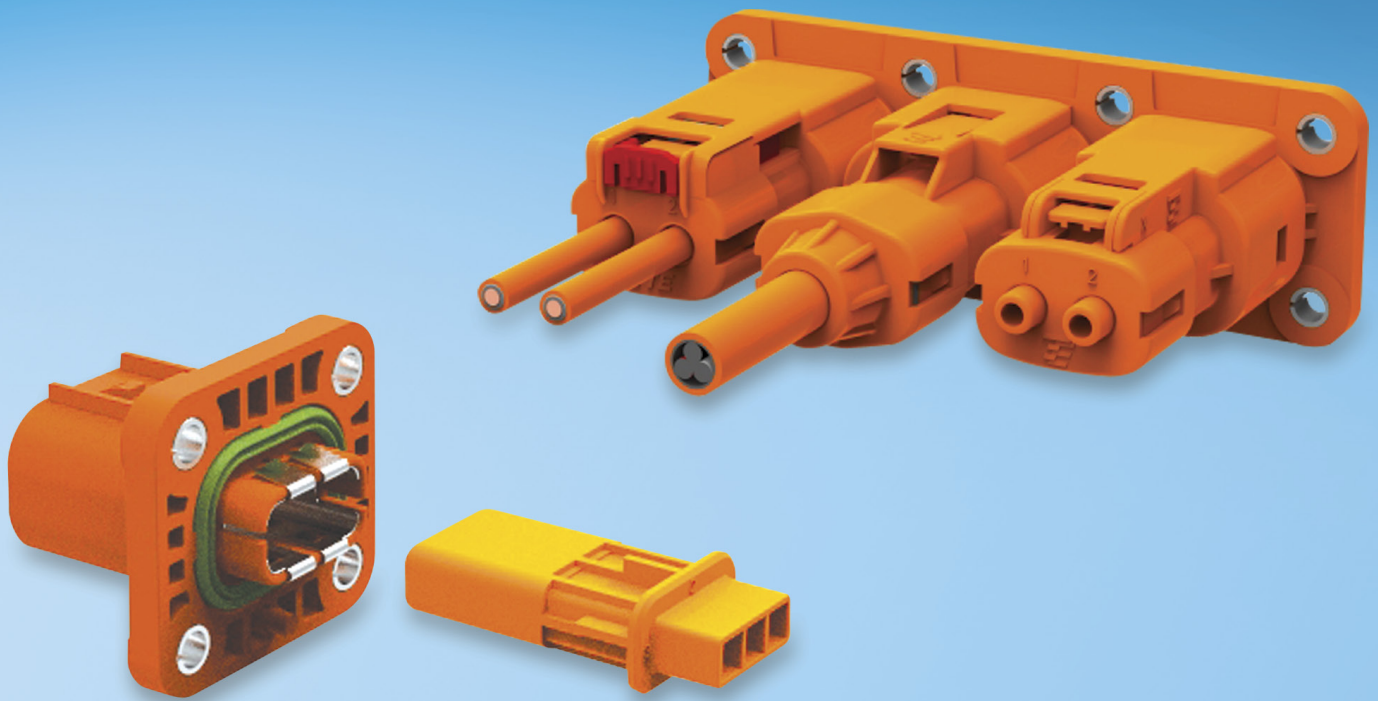




Improve Packaging and Manufacturability

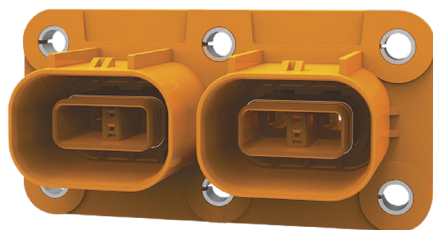
AMP+ Low-Medium Current Connectors and Headers

TE Connectivity's (TE) AMP+ HVA 280 discrete header and multi-bay header allow the optimum utilization of space and an efficient assembly process.

The TE AMP+ HVA 280 discrete header separates the cable assembly from the header and simplifies the routing of the cable in modules. The inner housing is loaded into the header from the rear and the wiring is routed from the inside of the module. This flexibility can lead to a more efficient assembly sequence that reduces cost and improves quality. The TE AMP+ HVA 280 discrete header has a common package size for two and three position connections and can be either shipped in two discrete sub-assemblies or shipped fully assembled.

The TE AMP+ HVA 280 multi-bay header utilizes the TE AMP+ HVA 280 discrete header and reduces packaging space requirements, fasteners and weight. Cost, quality, assembly time and logistics are improved by reducing the number of parts needed in the assembly of device modules. The TE AMP+ HVA 280 multi-bay header is available with two or three bays.

AMP+ HVA 280 2 Position Multi-bay Header



HVA 280 KEY FEATURES

- Finger proof, touch safe
- Two 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
- Discrete and multi-bay headers
- One piece plastic 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 MGS
- Wire range: 2-4mm² multi-core or individually shielded wire
- Latching style: Two stage, tool or finger actuated
- HVIL: Integrated, internal
- CPA available
- In-line 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
2 Position Individually Shielded Cable				
Tool Actuated	2103176	1587831-X 1587975-X; 2103124-X 2103247-X (2103245-X*) 2103340/46-1 (2103245-X*)	2103220-X 2103221-X 2103219-X	114-13259
Finger Actuated	2103176	15878315-X 15879755-X; 21031245-X 2103247-X (2103245-X*) 2103340/46-1 (2103245-X*)	2103220-X 2103221-X 2103219-X	114-13259
2 Position Multi-Core Shielded Cable				
Shunted HVIL				
Tool Actuated	2103014	2103124-X 2103247-X (2103245-X*) 2103340/46-1 (2103245-X*)	2103220-X 2103221-X 2103219-X	114-13305
Finger Actuated	2103014	2103124-X 2103247-X (2103245-X*) 2103340/46-1 (2103245-X*)	2103220-X 2103221-X 2103219-X	114-13305
Pass-Thru HVIL				
Tool Actuated	2103163	2103124-X 2103247-X (2103245-X*) 2103340/46-1 (2103245-X*)	2103220-X 2103221-X 2103219-X	114-13310
Finger Actuated	2103163	2103124-X 2103247-X (2103245-X*) 2103340/46-1 (2103245-X*)	2103220-X 2103221-X 2103219-X	114-13310
3 Position Multi-Core Shielded Cable				
Tool Actuated	2103197	1587727-X; 1587973-X 2103247-X (2103321-X*) 2103340/46-1 (2103321-X*)	N/A	114-13253
Intelligent Plug				
Finger Actuated	2103149	1587831-X 1587975-X; 2103124-X 2103247-X (2103245-X*) 2103340/46-1 (2103245-X*)	2103220-X 2103221-X 2103219-X	N/A

* Inner Housing



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