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 2-4mm² 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

APPLICATIONS

- Battery pack
- Electric heater
- High voltage power distribution

MECHANICAL

- Terminal: 2.8mm MCP, 064 MQS
- Wire range: 2-4mm² 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

<table>
<thead>
<tr>
<th>Options</th>
<th>Reference Plug P/N</th>
<th>Reference Mating Header P/N</th>
<th>Reference Mating In-line P/N</th>
<th>Application Specification</th>
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<tr>
<td>Tool Actuated</td>
<td>2103176</td>
<td>1587831-X</td>
<td>2103220-X</td>
<td>114-13259</td>
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<td>Finger Actuated</td>
<td>2103176</td>
<td>1587831-X</td>
<td>2103220-X</td>
<td>114-13259</td>
</tr>
</tbody>
</table>

| 2 Position Multi-Core Shielded Cable |
| Shunted HVIL |
| Tool Actuated | 2103014 | 2103124-X | 2103220-X | 114-13305 |
| Finger Actuated | 2103014 | 2103124-X | 2103220-X | 114-13305 |

| Pass-Thru HVIL |
| Tool Actuated | 2103163 | 2103124-X | 2103220-X | 114-13310 |
| Finger Actuated | 2103163 | 2103124-X | 2103220-X | 114-13310 |

| 3 Position Multi-Core Shielded Cable |
| Tool Actuated | 2103197 | 1587727-X | 1587973-X | N/A | 114-13253 |

| Intelligent Plug |
| Finger Actuated | 2103149 | 1587831-X | 2103220-X | N/A |

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* Depends on cable size and cable construction