stAK50h Unsealed Connection System

Leveraging industry-approved terminal design, the stAK50h Connection System incorporates through-hole style unsealed headers and connectors to support the most stringent global automotive OEM requirements for body electronics, safety, infotainment and a variety of transportation applications.

Features and Benefits

Multiple terminals for design flexibility
Support a wide range from low-current signal (5.0A) to high-current power (30.0A) applications

Compliant to USCAR-2 and global
Automotive OEM standards. Enables faster time-to-market

Standard USCAR color-coded housings
Support visual polarization. Expedite assembly of connector systems

28-Circuit Receptacle
12-Circuit Header
12-Circuit Receptacle
32-Circuit Receptacle

Stackable and modular header design
Eliminates costly custom tooling, engineering and validation time needed for multi-bay configurations

PCB-alignment posts for mating headers
Ensure proper terminal alignment via-holes of the PCB during assembly. Provide robust PCB retention

Connector Position Assurance (CPA) latching feature
Prevents accidental disengagement of male and female connectors when mated

Applications

Automotive
Comfort, Infotainment and Driver Assist
Body Electronics
Safety/Chassis
In-Vehicle Networking

Commercial Vehicles
Interior Electronic Modules
Body Electronic Modules

Car Navigation Systems
Power Seat Modules
Car Infotainment System
stAK50h Unsealed Connection System

Size Comparison Charts

0.50mm, 1.20mm and 2.80mm terminals are developed to support a wide range of applications ranging from low-current signal (5.0A) to high-current power (30.0A) applications.

PRODUCT CONFIGURATION – PCB Headers
Specifications

**REFERENCE INFORMATION**
- Configuration: Wire-to-Board
- Mates With: TAK50 terminals
- Terminal Used: 0.50mm, 1.20mm, 2.80mm
- Designed In: Millimeters
- RoHS: Yes
- Halogen Free: Yes
- Glow Wire Compliant: No
- USCAR-2 Compliant: Yes
- GMW3191 Compliant: Yes

**ELECTRICAL**
- Current (max.):
  - 5.0A for 0.50mm contacts
  - 12.0A for 1.20mm contacts
  - 30.0A for 2.80mm contacts

**PHYSICAL**
- Pitch: 2.00mm min, 3.50mm max
- Gauge: 10 to 26 AWG
- Housing: USCAR color-coded
- Contact: 0.50mm, 1.20mm, 2.80mm
- Operating Temperature: -40 to +85°C

Ordering Information

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<th>Packaging</th>
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