

HSBridge Connector System

COMPLIANT WITH USCAR EWCAP & USCAR-2 SPECIFICATIONS

HSBridge connector system is a standard USCAR EWCAP interface and can be used as a high-performance digital system for low-voltage differential signals which prevents interference from crosstalk and external sources. It has the bandwidth to support advanced infotainment, telematics and camera devices across the automotive and commercial vehicle industries. This connector system supports multiple protocols such as LVDS, USB 2.0, HDMI, VGA, and DisplayPort.

- Standard USCAR EWCAP interface
- Compatible with other competing products
- Resistance to reflow soldering temperature
- Patent protected simple assembly design
- Quality-tested according to USCAR-2

FEATURES

- Standard USCAR EWCAP interface
- Color coding effectiveness compliant to automotive requirements
- Cable side is used to insert mold to protect the raw cable
- Resistance to reflow soldering temperature
- Plug/wafer protected by scoop proof design
- Primary and secondary lock design
- Contact has insertion shell protection
- USCAR-2 compliant design

NEW


TARGET MARKETS



BENEFITS

- Compatible with other competing products
- Effective coding for better user experience in installation
- Protection against mechanical stress between a flexible electrical line and its connection port
- Supports Pin-In-Paste (PIP) processes
- Prevents pins from being bent or contacts from being electrically shorted during mating
- Furnishes the high cable retention force
- Prevent connector damage during incorrect release
- Meets Automotive critical mass for connector solutions

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Polymer, UL94V-0
- Dielectrics: High Temperature Polymer, UL94V-0
- Terminal: Copper Alloy
- Shell: Zinc Alloy

MECHANICAL PERFORMANCE

- Insertion Force: 45N max.
- Extraction Force without Locking Latch: 45N min.
- Extraction Force: 110N min.
- Durability: 10 mating cycles

APPROVALS & CERTIFICATION

- USCAR-2 Compliant
- ISO/TS Production Compliant
- Assembly Design Patent
- RoHS
- REACH/SVHC
- Low Halogen

PACKAGING

- Single, Tray or Tape and Reel available upon request

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: 50 mΩ max. per pin
- Isolation Resistance: Exceed 100 mΩ

ENVIRONMENTAL

- Temperature/Humidity Cycling: -40°C to +85°C, 80-100RH% / 40 Cycles
- High Temperature Exposure: Static 85°C / 1008 Hours

SPECIFICATION

- Amphenol Product Specification: HSBridge Series Spec

TARGET MARKETS/APPLICATIONS



Adapter Charger Module
Advanced Driver Assistance System
In-Vehicle Infotainment System
Surround View Camera System

PART NUMBERS

Description	Type	Part Numbers
HSBridge I Connector	HSBridge I, SMT, Right Angle, A Coding, Tape and Reel	MUBABR0511000SR
HSBridge I Connector	HSBridge I, SMT, Right Angle, E Coding, Tape and Reel	MUBEBR0511000SR
HSBridge I Cable Assembly	HSBridge I, Straight/Straight, Coding A to E, 1300mm	UMSAUMSE130SL

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