

HSC Connector System

USCAR-2 COMPLIANT COMPACT HIGH SPEED INTERCONNECT SYSTEM

HSC connector system is a fully shielded interconnect system that supports data rates up to 1Gb/s and more. With 0.50mm square terminals, it allows a lighter and smaller connector design. The comprehensive shielding of these connectors provides enhanced EMI performance. It is designed for automotive applications like LVDS, camera, USB and IEEE 1394. These connectors feature coded keys and visual identification to ensure coding compliance to automotive applications.

- Compact 0.50mm square terminal
- Data rate:1Gb/s+
- Support USB / LVDS
- EMI shielding
- Reflow-soldering compatible



TARGET MARKETS



FEATURES

- 0.50mm square terminal
- Coding compliant to automotive requirements
- Latch-Lock mechanism
- Reflow soldering capable
- Right angle and vertical options
- USCAR-2 compliant

BENEFITS

- Compact design
- Prevents mismatching
- Ensures good locking through locking sound
- Supports Pin-In-Paste (PIP) process
- Design flexibility
- Ideal for automotive applications

TECHNICAL INFORMATION

MATERIAL

- Housing: High temperature thermoplastic UL94V-0
- Contacts: Copper alloy (gold plating)
- Shell: Stainless steel (nickel plating)

MECHANICAL PERFORMANCE

- Mating Force: 60N max.
- Disengagement Force (without locking latch): 5N min.
- Unmating Force: $\geq 110\text{N}$ with the connector lock fully engaged

ELECTRICAL PERFORMANCE

- Current Rating: 2.5A per pin
- Contact Resistance: $30\text{m}\Omega$ max. per pin (initial)
- Insulation Resistance: $1000\text{m}\Omega$ min. at 500VDC
- Dielectric Withstanding Voltage: 500VAC rms per minute

PACKAGING

- Tray
- Tape & Reel

SPECIFICATION

- Amphenol Product Specification: HSC Series specification

ENVIRONMENTAL

- Operation Temperature Range: -40°C to $+100^{\circ}\text{C}$
- Humidity Cycle: 0%–95%RH / 40 Cycles

APPROVALS AND CERTIFICATION

- USCAR-2 compliant
- RoHS compliant
- Reach/SVHC compliant

TARGET MARKETS/APPLICATIONS



Infotainment System
Surround View Camera System
Advanced Driver Assistance System

PART NUMBERS

HSC Cable Harness

Description	Length	Code	Part Numbers
HSC CABLE A code to A code	1000mm	A	CAA00HSC1001100
HSC CABLE B code to B code	1000mm	B	CAA00HSC1002100
HSC CABLE C code to C code	1000mm	C	CAA00HSC1003100
HSC CABLE D code to D code	1000mm	D	CAA00HSC1004100
HSC CABLE HSC to USB 2.0	1000mm	A	CAA00HSC0101100

HSC Series / PCB

Description	Part Numbers
HSC Series / PCB Side Header / A Code / R/A Dip / Black / 0.15um Au / Tape and Reel	HSCHD02AR0001R
HSC Series / PCB Side Header / A Code / Vertical Dip / Black / 0.15um Au / Tape and Reel	HSCHD02AV0001R
HSC Series / PCB Side Header / B Code / R/A Dip / Blue / 0.15um Au / Tape & Reel	HSCHD02BR1001R
HSC Series / PCB Side Header / B Code / Vertical Dip / Blue / 0.15um Au / Tape & Reel	HSCHD02BV1001R
HSC Series / PCB Side Header / C Code / R/A Dip / Brown / 0.15um Au / Tape and Reel	HSCHD02CR2001R
HSC Series / PCB Side Header / C Code / Vertical Dip / Brown / 0.15um Au / Tape & Reel	HSCHD02CV2001R
HSC Series / PCB Side Header / D Code / R/A / Green Dip / 0.15um Au / Tape & Reel	HSCHD02DR3001R
HSC Series / PCB Side Header / D Code / Vertical / Green Dip / 0.15um Au / Tape & Reel	HSCHD02DV3001R

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