Leveraging industry-approved terminal design, the stAK50h™ Infotainment Connector System incorporates unsealed hybrid connectors to deliver both signal and Ethernet connectivity through one low-footprint connector.

**Features and Benefits**

- Standard USCAR color-coded housings
- Supports visual polarization
- Expedites assembly of connector systems
- Compliant to USCAR-2 and global automotive OEM standards
- Enables faster time-to-market
- PCB-alignment posts for mating headers
- Ensure proper terminal alignment in via-holes of the PCB during assembly
- 0.50mm and 1.20mm terminals developed around NanoMQS and AK (Arbeitskreis) Specifications
- Supports a wide range of low-current signal (4.0A) and Ethernet applications

**Applications**

**Automotive**
- Comfort Systems
- Infotainment Systems
- Driver Assistance
- Body Electronics
- Safety/Chassis
- In-Vehicle Networking

**Commercial Vehicle**
- Interior Electronic Modules
- Body Electronic Modules

- Interior Lighting, Instrument Panels and Door Zone Modules
- Power Seating
- Navigation Systems
Specifications

REFERENCE INFORMATION
Packaging: Tray
UL File No.: UL-94 HB Flame Rating
Mates With: 160013 Header mates with 160014 Receptacle
Designed In: Millimeters
Keying Options: 4
Color:
  Header: Grey
  Receptacle: Dark Grey, Light Green, Light Grey and Black

ELECTRICAL
Voltage (max.): 500V DC
Current (max.): 0.50mm: 4.0A
1.20mm: 12.0A
Contact Resistance (max.): 0.50mm: 25mΩ
1.20mm: 13mΩ
Isolation Resistance (min.): 100MΩ

PHYSICAL
Housing: 30% Glass-Filled SPS
Cable Jacket: TPU
Metal: C26000 Brass
Contact Plating:
  0.50mm: Tin (Sn) over Nickel (Ni)
  1.20mm: Tin (Sn – Matte for PCB) over Nickel (Ni)
Operating Temperature: -40 to +85°C
Vibration: GMW3191 (On-Body)

MECHANICAL
Mating Force (max.): 75N
Polarization Effectiveness (min.): 185N
Terminal Retention (min.):
  0.50mm: 15N
  1.20mm: 50N
Durability: 10 cycles

Ordering Information

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<th>Order No.</th>
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www.molex.com/link/stak50h.html