

# INTRODUCING AMP MCP CONNECTOR SYSTEM

- Connectivity for 48V architectures
- Supports high current carrying capacity, reliability and high vibration levels



The AMP MCP connector system offers two-piece female box style receptacle and male flat tab design terminals as well as receptacle and tab housings with water resistant capabilities, and automotive-grade PCB headers. The robust system is designed for electronic and electrical applications in motor vehicles which are exposed to high vibration and mechanical stress. The AMP MCP connector system is available in sealed and unsealed versions, including hybrid versions compatible with other TE Connectivity (TE) MCON or MQS connectors are suited for wire-to-wire, wire-to-board, wire-to-device applications. It can also be used for high voltage and higher vibration applications.

## KEY BENEFITS

- Supports high vibrational load with multiple contact points
- Enables design flexibility with large range of wire sizes from 0.2 mm<sup>2</sup> for AMP MCP 1.5K terminals up to 16.0 mm<sup>2</sup> for AMP MCP 9.5 terminals
- Allows high current capability with CuNiSi base material
- Used for high voltage applications with high temperature variants
- Multiple contact point design
  - Protected contact spring from closed box design and overstress protection of the contact spring
  - Secondary locking possibilities from four sides with protected locking lances
  - 1.5, 2.8, 6.3 and 9.5 mm contact size systems within AMP MCP connector family
- Contact plating temperature ranges -40 to 150°C
- Contact to contact mating ranges 10 to 100 cycles
- Wire-to-wire, wire-to-board, and wire-to-device
- Sealed and unsealed versions available
- 1 to 119 positions
- Connector Position Assurance (CPA) capability
- Hybrid versions compatible with MCON and MQS contacts
- Design incorporates mechanical polarization
- Color keying available to prevent improper mating

## TARGET MARKETS

- Passenger and commercial vehicle industry (CVI)
- Industrial, Machine, & Equipment
- Appliance

## APPLICATIONS

- Ideal for harsh environment applications required to support:
  - Vibration
  - Elevated temperatures
  - High current capabilities
  - Wire-to-wire, wire-to-board, and wire-to-device
- Automotive Specific
  - Powertrain systems
  - Chassis Systems
  - Safety Systems
  - Door to Body
  - Driver Information
  - Convenience
  - Entertainment

## LEARN MORE

- [AMP MCP Connector System product page](#)