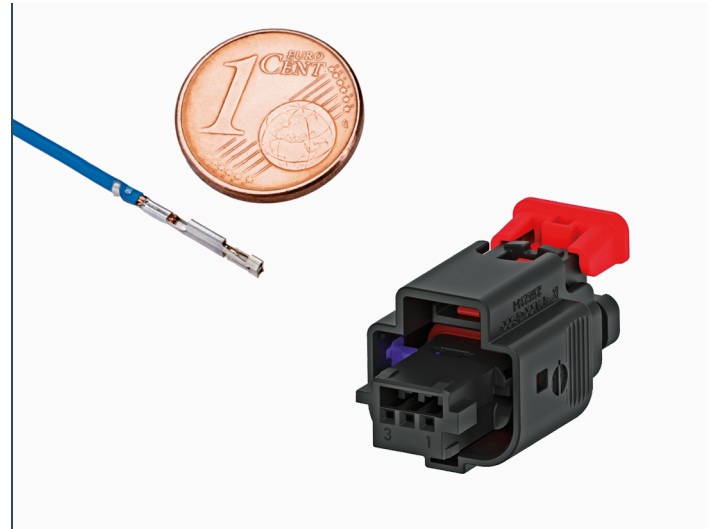


MCON 0.50

MINIATURIZED AUTOMOTIVE CONNECTOR SYSTEM

- 1.8mm sealed connector system for robust space-constrained signal interfaces



Designed for deployment in very harsh automotive environments and with the same space saving advantages as the NanoMQS terminal, this sealed system offers a “clean body design”. The MCON 0.50 connector system meets the requirements for LV214 level 3 for close-proximity installations and level 4 in the case of direct engine mounting. MCON connectors operate up to 170°C (Ag).

APPLICATIONS

- Sealed applications (Engine Control Units)
- Safety-critical, sealed, high vibration applications
 - Airbag ECU
 - Engine control units
 - Engine room Sensors
 - Camera
 - Body Control unit

BENEFITS

- Space and weight savings - Up to 50% reduced PCB footprint and weight (compared to 2.54mm pin-pitch connector)
- Locking Functions - CPA, Kushiri, primary and secondary contact locking
- Robust sealed connector design with protection class up to IPx9K level of water protection
- Sealed system featuring specifically engineered silicone seals to prevent fluid and moisture ingress into areas of electrical contact
- Automotive-grade robustness with SG4 vibration grade (Ag) for safety critical high vibration applications
- Meets LV214 Level 3 for close-proximity installations and level 4 for direct engine mounting

PRODUCT FEATURES

- 1.8mm pin-to-pin pitch
- 0.13mm to 0.35 mm² wire range
- Mating for 0.5 x 0.4 blade size
- Current capacity: 3A (90°C)
- Max. Temperature 170°C (Ag) - Terminal
- Max. Temperature 150°C - Connector
- SG4 Vibration Grade (Ag)
- LV214, VW75174 compliant
- Sealing class IPx9k
- Present in various European OEMs
- Clean Body design
- Primary and secondary contact locking
- Click-audible connector position assurance (CPA)
- PCB mounting clips
- Anti-scooping features
- Series 'AK' interface
- Variants:
 - single-row connectors → 3, 4 & 6 positions
 - dual-row connectors → 4 -12 positions
- Design cover for cable fixation

LEARN MORE

- [MCON Connector Product Page](#)
- [Miniature Product Group Page](#)
- [Miniaturized Automotive Connectivity Video](#)
- [Miniature White Paper](#)
- [Miniature Portfolio \(US\)](#)
- [Miniature Portfolio \(EMEA\)](#)
- [Signal and Power Connector Brochure](#)