

INTRODUCING MQS INTERCONNECTION SYSTEM

0.63MM INTERCONNECTION SYSTEM

- **Engineered for endurance:** high-performance copper alloy with 2 and 4-point contacts delivering stable performance, dependable reliability and low mating force over the product's lifetime
- **Locked in with confidence:** built-in polarization and secondary locking ensures correct terminal insertion and secure, fail-safe connections



The MQS interconnection system from TE Connectivity is one of the most compact and reliable connector solutions for modern automotive applications. It comprises a versatile terminal range designed to meet varying requirements for robustness, low mating force, and sealed and unsealed applications, with 2-point and 4-point terminals available in Locking Lance and Clean Body designs. Electrical and mechanical functions are separated by using a high-performance contact body for optimal conductivity and a steel cantilever spring for secure terminal retention. With robust primary and secondary locking, fine-pitch centerlines, and compatibility with multiple wire sizes, plating options, and configurations, MQS enables flexible wire-to-wire and wire-to-board/wire-to-device designs in highly space-constrained environments. As part of the scalable Quadlok family, the portfolio ranges from MQS to MPQ and PQ solutions, supporting applications from low-signal transmission up to 45 A, meeting the demands of next-generation automotive E/E architectures.

APPLICATIONS

- ABS Sensors and Controllers
- Engine/Zonal Control Unit
- Power seat motor connections
- Airbag modules / Autopilot modules
- Body control system
- Dashboard information systems
- Door and Main Harness
- Ventilation System (HVAC)
- Steering Wheel
- Battery management system

ELECTRICAL

- MQS current rating: up to 7.5 A (80°C)
- Wire range: 0.08-0.75 mm²
- Contact System: 2 and 4-point contact for low mating force and reliability

MECHANICAL

- Pin-to-pin pitch: 2.54 mm
 - Mating for 0.63 x 0.63 mm
 - Locking features: Primary & secondary locking
 - Cable type: FFC compatible (MQS FFC terminals)
- *FFC = Flat Flexible Cable

KEY BENEFITS

- Available as locking lance and clean body terminal designs
- Sealed and Unsealed versions (mat or individual seals)
- Low profile detent for secure engagement
- High performance copper alloy for long-term durability
- Polarization and secondary locking for reliable terminal insertion
- Overstress protection on contact springs
- Mixed signal-and-power MQS connectors available
- Ergonomic assembly and safe installation
- 48V* and Automation ready

MATERIALS

- Contact: High performance copper alloy
- Plating options: Tin, Silver, Gold

SPECIFICATIONS

- Max. vibration performance: SG3
- Standards: LV214 & USCAR
- DIN 72036 – full compliance with automated wire processing technologies

LEARN MORE

- [MQS Connector System Landing Page](#)
- [MQS Connector System Catalog](#)

* Select PNs are 48V ready. Check te.com/48V for 48V ready PNs.