

INTRODUCING

MCON 1.2 NEXTGEN AND NEXTGEN PLUS SEALED LOCKING LANCE CONNECTOR SERIES

Environmentally sustainable connectivity for
harsh automotive environment applications



TE Connectivity (TE) has developed a more advanced and sustainable 1.2mm sealed locking lance solution tailored for demanding automotive environments. Thoughtfully reengineered, the NextGen and NextGen Plus MCON 1.2 reduces CO2 emissions by up to 40% by design and material choice, without compromising performance. The solution features an enhanced CPA design, improved vibration resistance, is 48V and automation ready, and is backward compatible with standard MCON and Gen2 series interfaces. It meets the rigorous requirements of LV214 and USCAR standards for use in harsh conditions.

PRODUCT FEATURES

- Receptacle housings with compatible tab connectors (for inliner applications)
- Locking lance terminal use
- 2-8 positions (standard interface AK/USCAR)
- Vibration: SG4 (LV214)
- Temperature Class: 130° C
- LV214/USCAR2 qualification.
- Sustainable solution with bio-massed balanced materials (up to 40% carbon footprint reduction)
- Improved Connector Position Assurance (CPA) design for reliability and security during the mating process
- Integrated secondary lock
- Large contact area for automatic locking system
- Full interface compatibility across standard series and Gen2 series (same interface)

APPLICATIONS

- Any kind of exterior application including sensing/low power transmission with 2-8 positions, that is fully independent from the vehicle propulsion type (wide application areas are present in ICE, EV and fuel cell vehicles)
- Harsh automotive environments that need to have a sealed solution to withstand extreme vibration, temperatures and harsh environments
- Sensing (Temperature Sensors)
- E-Axle Drives
- Lighting

BENEFITS

- **Sustainability** – Significant reduction of carbon footprint by design and a further carbon footprint reduction with bio-massed balanced solution.
- **Automation** – Integrated secondary lock latch with large contact area for automatic locking. QR code with best-in-class track and trace and lower cycle time.
- **Performance** – Improved and highly robust solution offering high vibration (SG4) and quality. Improved CPA design offering additional robustness and improved ease-of-use.
- **Versatile** – Versatile solution using the same interface to serve multiple applications in the vehicle. Fully compatible with MCON standard and Gen2 series and validated according to LV214 and USCAR2.
- **Future-Ready** – 48 Volt ready and ready for automation.
- **Improved Ergonomics** – Easier to handle with increased surface and bigger latch to disengage.



LEARN MORE

- [MCON 1.2 NextGen and NextGen Plus Landing Page](#)
- [MCON 1.2 and HPF 1.2 Brochure](#)
- [MCON Portfolio Browser Catalog](#)
- [Low Voltage Signal and Power Connectivity Solutions](#)
- [48V Automotive Connectivity Solutions](#)
- [MCON Landing Page](#)