

Innovative EPIC® solutions at the Hannover Messe

High-performance mini connector from LAPP

***Stuttgart, 4 May 2022* – Small is often much better! LAPP will be presenting the new EPIC® POWER power connector with M12L coding at the Hannover Messe (hall 11/stand C03). It is the smallest M12L connector available on the market and is particularly powerful with up to 16 A.**

When developing the new mini connector, the global market leader for integrated solutions in the field of cable and connection technology took entirely new paths. The technical properties of the connectors were simulated using virtual models and virtually put through their paces, even before the first 3D printed model was created.

Ideal for PROFINET-applications

The new EPIC® POWER M12L connector is ideal, for example, for small robots, so-called "cobots", which act together with people in production or in the warehouse. Another application field are automated guided vehicles (AGVs), such as in the LAPP logistics centre in Ludwigsburg. Use in I/O modules for PROFINET is another big field of application for the EPIC® POWER M12L connector. To date, 7/8" connectors have been the standard power interface for the sensor/actuator control cabinet. The change from the old standard to the M12L enables boxes to be reduced in size by over 50%. The PNO has defined the M12 L-coded as the interface for the power supply for all PROFINET applications. This is the set standard for PROFINET devices such as intelligent motors or I/O modules. The M12 L coding offers the ideal conditions for this.

The mechanical L coding of the connector face prevents incorrect plugging with the mating connector. Crimp termination creates a vibration-proof connection, provides maximum contact protection between the contact and cable and is suitable for automated assembly. When connected and locked, protection class IP 65/67 and IP69 can be achieved. Thanks to UL certification, the EPIC® POWER M12L is approved for use in North America. The new connector is also available as a 4-pin variant with black insulation and as a 4+FE variant with grey insulation and functional earthing contact (FE).

Other additions are available to suit the EPIC® POWER M12L series: an EPIC® POWER M12L D6 coupling connector, an EPIC® POWER M12L G4 panel-mount base, an EPIC® POWER M12L F6 cable connector and the EPIC® POWER M12L A4 panel-mount base. All variants are also available with solder contacts as an option. There are also EPIC® POWER M12L contacts with multiple slots and marking of the conductor cross-section to ensure maximum contact from the plug connection.

Other EPIC® news

However, LAPP will also be presenting some new products for use with many EPIC® rectangular connector housings.

- The EPIC® H-Q 5 is a compact, 5-pin rectangular connector insert, particularly powerful up to 30 A and suitable for screw-on or crimpable PE contacts.
- The EPIC® H-Q 5 PE contacts can be crimped and are suitable as vibration-proof PE protective conductor contacts for the EPIC® H-Q 5 and EPIC® H-Q 7 rectangular connector inserts.
- The EPIC® H-Q 7 is a compact, 7-pin rectangular connector insert, powerful up to 10 A, for screw-on or crimp PE contact.
- The EPIC® MH 2 40A is a 2-pin rectangular connector insert for the EPIC® MH modular system. It has an output of up to 40 A and is also suitable for railway applications.

Images and graphics

For this press release, you will be provided with digital images in printable resolution. The photos may be used free of charge. No graphical editing is permitted, with the exception of the release of the main theme.



EPIC® POWER M12L

The EPIC® POWER M12L power connector with L-coding is the smallest M12L connector available on the market

Photo: LAPP

You can download the image [here](#).

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About LAPP

Headquartered in Stuttgart, Germany, LAPP is a leading supplier of integrated solutions and branded products in the field of cable and connection technology. The company's portfolio includes standard and highly flexible cables, industrial connectors and screw technology, customised system solutions, automation technology and robotics solutions for the intelligent factory of the future, as well as technical accessories. LAPP's core market is in the industrial machinery and plant engineering sector. Other key markets are in the food industry, logistics, as well as the energy and the mobility sector.

The company was founded in 1959 and is still fully owned by the founding family to this day. In the 2020/21 financial year, it generated a consolidated turnover of EUR 1,423 million. LAPP (including its non-consolidated companies) currently employs approximately 4,586 people across the world, produces at 21 international sites and has over 44 sales companies. LAPP also cooperates with around 100 international offices.

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