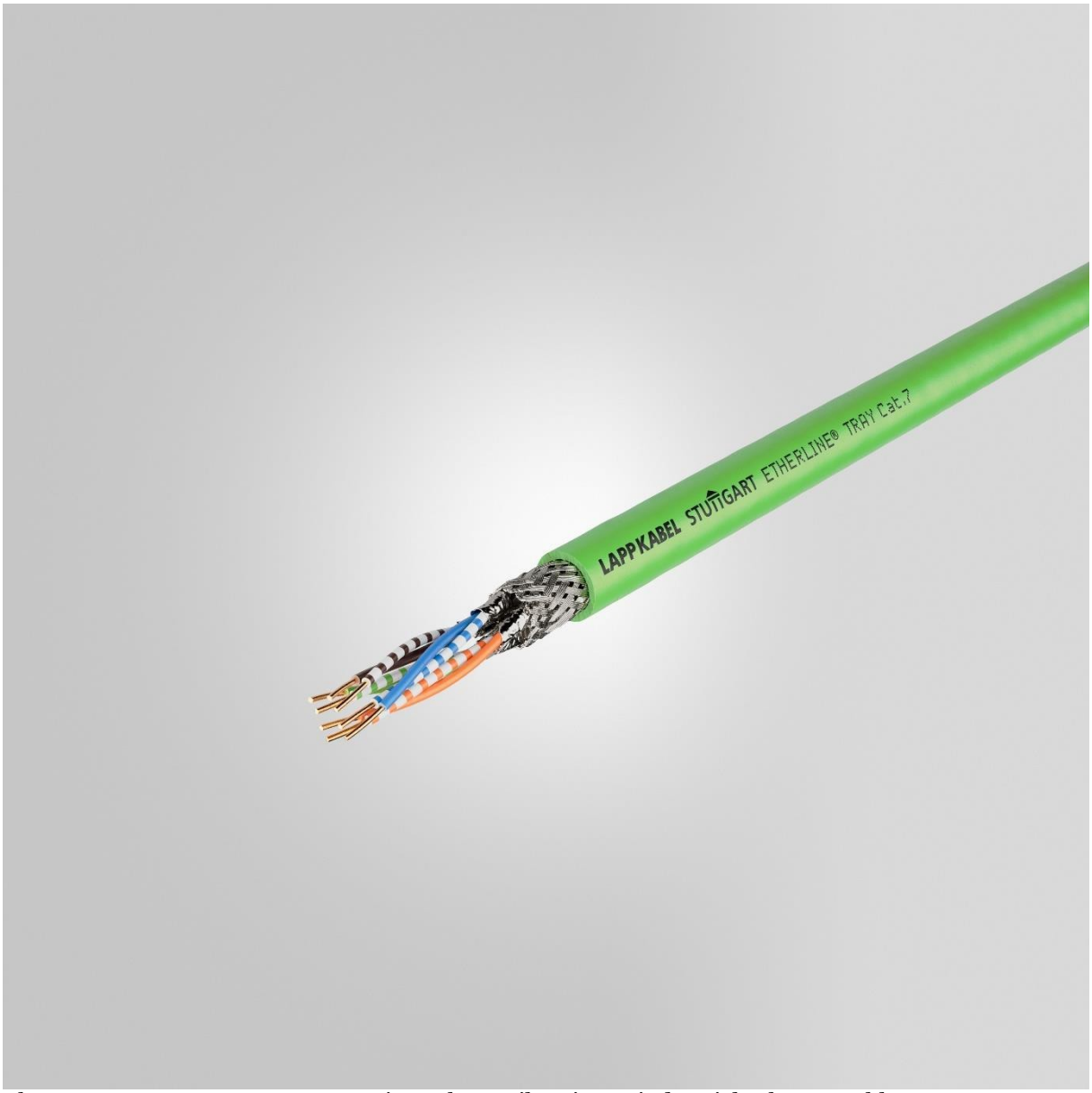
Press release

New data transmission systems from LAPP

ETHERNET technology for the smart factory



The ETHERLINE TRAY Cat.7 PLTC is a robust, oil-resistant industrial Ethernet cable.

Factories are getting smarter and smarter. This requires intelligent components and smart machines. Actuators and sensors have to supply data in real time at every point that's important for the system. LAPP has a comprehensive portfolio for all industrial communication applications and protocol standards, available from a single source and with

Press release

Manufacturing expertise: From the sensor, actuator and control level to the inventory management system, the global market leader for integrated solutions in the field of cable and connection technology achieves complete networking solutions for reliably transmitting the largest volumes of data. LAPP now has several new data transmission systems in its portfolio especially for ETHERNET technology:

ETHERLINE LAN 1000 Cat.7_A
The 4 or 8-pair Ethernet cable with transmission power (Cat. 7_A) is suitable for structured building cabling within LAN networks and all Ethernet applications (IEEE 802.3) up to
10GBase-T. It is used to transmit analogue and digital signals in the frequency range up to
1000 MHz. Pair screening with aluminum compound foil and copper braiding provides ideal protection against electromagnetic interference, while also providing mechanical reinforcement.

ETHERLINE TRAY Cat.7 PLTC
This robust, oil-resistant industrial Ethernet cable (Cat. 7) was specially developed for the USA. It is the first of its kind with PLTC classification according to UL and can therefore be laid open on cable trays. The high-speed transmission rates of up to 10 Gbit/s and the ideal shielding make it suitable for universal use on machine interfaces for data and signal transmission applications.
The outer sheath is made of a special PVC, which is why the cable is resistant to acids and alkalis.

ETHERLINE PN Cat.6_A FC
This data cable is suitable for fixed installation in the PROFINET® network (type A): Thanks to its Fast Connect construction with a central cross between the pairs of wires, the UL-certified Ethernet cable (Cat. 6_A) can be assembled particularly quickly. To protect against electromagnetic interference, the cable has a double overall shielding made of aluminum- laminated foil and copper braiding shielding with a high degree of coverage. Cat.6_A performance guarantees transmission rates of up to 10 Gbit/s in the frequency range up to
600 MHz. The cable is UL-certified for the North American market. It can be used in a variety of ways, depending on the sheath material. There are three variants for this.

ETHERLINE PN Cat.6_A FLEX FC
It was developed for flexible use in the PROFINET® network (type C): Thanks to its Fast Connect construction with a central cross between the pairs of wires, the UL-certified Ethernet cable (Cat. 6_a) can be assembled particularly quickly and also impresses with outstanding EMC properties. It is suitable for industrial secondary and tertiary cabling according to EN 50173-3 ISO/IEC 24702 for wiring machines, devices and control cabinets. The cable is available with a robust PVC outer sheath or halogen-free FRNC outer sheath.

ETHERLINE PN Cat.6_A FD FC
The ETHERLINE PN Cat.6_A FD FC is particularly tough for highly flexible power chain use in the PROFINET® network (type C): Thanks to its Fast Connect construction with a central cross between the pairs of wires, the UL-certified Ethernet cable (Cat. 6_a) can be assembled very quickly and has the best EMC

properties thanks to its double overall shielding. It is available with a robust PVC outer sheath or abrasion-resistant PUR outer sheath and has