

Industrial Communication

Data that moves your industry



Industrial communication at the highest level – with LAPP as a reliable partner

In a networked industry, a reliable communication infrastructure is the backbone of efficient processes. Whether in renewable energy generation, food & beverage processing or automated logistics – wherever machines, systems and controls interact with each other, robust, high-performance and optimally designed components are essential.

However, each industry has its own requirements: UV resistance in solar systems, torsion & temperature resistance in wind turbines, cleaning resistance in the food & beverage industry or permanent bending loads in intralogistics – the products used must be precisely matched to the application.

With LAPP, you choose a partner that takes a comprehensive approach to cabling solutions for industrial communication. Our portfolio offers everything that is necessary for stable communication – from highly flexible data cables and EMC-protected connectors to ready-to-connect solutions that can be supplied worldwide.

Your advantages with LAPP at a glance:

- Over 65 years of experience in industrial connection technology.
- Complete solutions from a single source – from the cable to the assembled system.
- Worldwide availability through a strong sales and logistics network.
- Technical advice – from the project idea to commissioning.
- The highest quality, tested according to international norms and industry standards.



Discover how industrial communication efficiently connects machines and systems.



You can find more information on reliable data transmission in the industry here.

Connections that create the future – reliably networked with LAPP

The digital transformation is fundamentally changing industrial processes. In all sectors, the demands on communication systems are increasing. They must not only be powerful, but also adaptable, durable and future-proof.

With our comprehensive portfolio, we create the technical basis for modern industrial communication – whether in the field, in moving applications or in the control cabinet. LAPP not only supplies data cables, but also complete connection solutions: robust plug-in connectors, ready-to-install system components, active network devices, practical accessories – and the technical advice that turns them into a functioning solution.

LAPP stands for quality, innovation and uncompromising reliability.

Our products are more than just components – they are the basis for efficient, safe and stable processes in your application. Whether you are planning new plants, modernising existing systems or need to react to industry-specific requirements, **we are with you every step of the way. Personally. Competently. Worldwide.**



Discover our product portfolio now.



Customised solutions just one click away - discover our configurators and finders.



Get in touch with us directly.



Solar

Efficient communication for maximum system performance

In large photovoltaic systems, a reliable communication infrastructure is essential to exploit the full potential of solar energy. Components such as PV modules, inverters, controllers and monitoring units must be permanently and securely networked with each other – via robust data cables, reliable connectors and suitable system solutions.

This connection technology is exposed to extreme conditions: UV radiation, temperature fluctuations, dust and mechanical stress – for example when laying cables in rough terrain or directly in the ground. In addition to halogen-free cables, directly installable fibre optic cables, field-assembly connectors and weather-resistant accessories are used here.

LAPP offers a complete connectivity solutions for PV systems – from robust cables and EMC-compliant connectors to ready-to-connect cable systems. For long-lasting performance, safe installation and maximum energy efficiency.

Typical requirements:

- Long distances: Fibre optic solutions with high bandwidth.
- Weather resistance: Protection from sun, rain, dust, temperature.
- Mechanical resilience: Direct burial, abrasion and rodent protection.
- Safety standards: CPR certification, halogen-free, flame retardant.



Find out more about solutions for the solar industry.

Products

RS485, 422, Modbus	Cables for outdoor	UNITRONIC® Li2YCYv (TP)	UNITRONIC® BUS LD FD P
Ethernet	Cable for outdoor	ETHERLINE® LAN 1000 Cat.7 OUTDOOR	
	Cable for direct burial	ETHERLINE® LAN Cat.7 S/FTP 4x2AWG23 (L)PE	
	Patchcord for cabinets	ETHERLINE® LAN Cat.6A Patchcords	
	RJ45 connectors	EPIC® DATA RJ45 Cat.5e	EPIC® DATA RJ45 Cat.6A
	M 12 connectors	EPIC® DATA M 12D	
Fibre Optic	Unmanaged Switches	ETHERLINE® ACCESS U05T-2GEN	ETHERLINE® ACCESS U08T-2GEN
	GOF cable for outdoor & direct burial	HITRONIC® HQN Outdoor Cable	
	Splice box	HITRONIC® SBX	
	Managed Switch	ETHERLINE® ACCESS M08T02SFP	





Wind

Reliable connection – in wind and weather

Wind turbines require highly durable connection solutions that function permanently even under extreme conditions – in the nacelle, in the tower, at the transfer point. LAPP supplies a comprehensive portfolio of torsion-resistant cables, vibration-proof connectors and ready-to-install system solutions for this purpose.

Rotary motion, vibrations, temperature changes, humidity and electromagnetic fields place the highest demands on the components used. Fibre-optic-based solutions are an ideal addition for long distances between turbines or to the control room.

LAPP understands the requirements of the wind industry and supplies systems that are robust, efficient and available worldwide.

Typical requirements:

- Torsion and bending strength: for moving applications in the nacelle.
- Environmental resistance: temperature, UV, humidity, salt spray.
- EMC protection: secure transmission despite generators and converters.
- Long-distance communication: fibre optic cables for low-loss connections.



Find out more about products and services for wind energy now.

Products

RS485, 422, Modbus	Flexible cables	UNITRONIC® BUS LD		UNITRONIC® Li2YCY (TP)
	Flexible cables	UNITRONIC® BUS CAN		
	Cables for cable chain	UNITRONIC® BUS CAN FD P		
	Cord sets	UNITRONIC® BUS CAN M12		
CAN	Connector	EPIC® DATA CAN Sub-D		
	Flexible cables	UNITRONIC® BUS PB		
	Cable for torsion	UNITRONIC® BUS PB TORSION		
	Cord sets	UNITRONIC® BUS PB M12		
PROFIBUS	Connectors	EPIC® DATA PB Sub-D		
	Flexible cables	UNITRONIC® BUS LD		
	Cable for torsion	UNITRONIC® BUS LD TORSION		
	Cord sets	UNITRONIC® BUS LD M12		
Ethernet	Cables for torsion	ETHERLINE® TORSION Cat.5		ETHERLINE® TORSION Cat.6A
	Patchcords for torsion	ETHERLINE® TORSION Cat.7		
	LAN cables for outdoor & direct burial	ETHERLINE® TORSION Cat.6A Patchcords		
	Cabinet patchcords	ETHERLINE® LAN 1000 Cat.7 OUTDOOR		
	RJ45 connectors	ETHERLINE® LAN Cat.6A Patchcords		
	M 12 connectors	EPIC® DATA RJ45 Cat.5e		EPIC® DATA RJ45 Cat.6A
	Unmanaged Switches	EPIC® DATA M 12D		
	GOF	ETHERLINE® ACCESS U05T-2GEN		ETHERLINE® ACCESS U08T-2GEN
	Managed switch	HITRONIC® TORSION		HITRONIC® HQN Outdoor Cable
	Splice box	ETHERLINE® ACCESS M08T02SFP		
Fibre Optic	Managed switch	HITRONIC® SBX		
	Splice box	HITRONIC® SBX		
	Splice box	HITRONIC® SBX		



Food and Beverage

Communication under the strictest hygiene conditions

In the food, beverage and packaging industry, efficiency, hygiene and process reliability are crucial. This requires a cabling solution that is chemical-resistant, easy to be cleaned and reliable – consisting of ECOLAB® or FDA-compliant products, matching connectors and hygiene-compatible accessories.

Cleaning processes with aggressive media, high humidity and temperature changes are common. Particularly in food processing areas, all components must meet the requirements for hygienic design.

From chemical-resistant cables and hygienically designed connectors to ready-to-connect system solutions – LAPP offers a comprehensive portfolio for safe industrial communication in food and beverage production.

Typical requirements:

- Cleaning & temperature resistance: ECOLAB® products for frequent cleaning.
- FDA conformity: for food processing areas.
- Protection types and materials: high IP classes, rust-free metal parts.
- Compact, flexible solutions: for confined installation situations



Solutions for the food and beverage industry - discover now.



Products

Sensors	Cables for cable chain	UNITRONIC® SENSOR FD	UNITRONIC® ROBUST S/A FD
	Cord sets with Hygienic Design & FDA	UNITRONIC® SENSOR HD M12	
	Cord sets with valve connector	UNITRONIC® SENSOR Valve-M12	
	Connectors	EPIC® SENSOR M8	EPIC® SENSOR M12
RS485, 422, Modbus	Flexible cables	UNITRONIC® BUS LD	
	Cables for cable chain	UNITRONIC® BUS LD FD P	
ASi	Flexible cables	UNITRONIC® BUS ASI	
	Cables for cable chain	UNITRONIC® BUS ASI FD	
CAN	Flexible cables	UNITRONIC® BUS CAN	
	Cables for cable chain	UNITRONIC® BUS CAN FD P	
	Cord sets	UNITRONIC® BUS CAN M12	
	Connector	EPIC® DATA CAN Sub-D	
DeviceNet	Flexible cables	UNITRONIC® DeviceNet	
	Cables for cable chain	UNITRONIC® DeviceNet FD	
	Cord sets	UNITRONIC® BUS CAN M12	
PROFIBUS	Flexible cables	UNITRONIC® BUS PB	UNITRONIC® BUS PB ROBUST
	Cables for cable chain	UNITRONIC® BUS PB FD P	UNITRONIC® BUS PB FD P HYBRID
	Cord sets	UNITRONIC® BUS PB M12	
	Connectors	EPIC® DATA PB Sub-D	
Ethernet	LAN cables for building installation	ETHERLINE® LAN 200 Cat.5e	ETHERLINE® LAN 1000 Cat.7A
Industrial Ethernet	Flexible cables	ETHERLINE® ROBUST	ETHERLINE® Cat.5e FLEX
		ETHERLINE® PN Cat.6A FLEX	ETHERLINE® Cat.7 FLEX
	Cables for cable chain	ETHERLINE® PN Cat.5 FD	ETHERLINE® Cat.6 FD
		ETHERLINE® PN Cat.7 FD	
	Patchcords for cabinets	ETHERLINE® LAN Cat.6A Patchcords	ETHERLINE® PN Cabinet Cat.6a
	Patchcords	ETHERLINE® PN Cat.5 Patchcords	ETHERLINE® Flex P Cat.5 Patchcords
		ETHERLINE® PN Flex Cat.5 Patchcords	ETHERLINE® EC FD Cat.5e Patchcords
		ETHERLINE® PN FD Cat.5 M12 Patchcords	ETHERLINE® FLEX Cat.6A Patchcords
		ETHERLINE® TORSION Cat.6A Patchcords	ETHERLINE® FD Cat.6 Patchcords
	RJ45 connectors	EPIC® DATA RJ45 Cat.5e	EPIC® DATA RJ45 Cat.6A
	M 12 connectors	EPIC® DATA M12D	
	Unmanaged switches	ETHERLINE® ACCESS U05T-2GEN	ETHERLINE® ACCESS U08T-2GEN
	Managed PROFINET switches	ETHERLINE® ACCESS PNF	
	Remote I/O devices	UNITRONIC® ACCESS MP08 IOL	
Fibre Optic	POF	HITRONIC® POF SIMPLEX Cable	HITRONIC® POF DUPLEX Cable
	GOF	HITRONIC® HUN Universal Cable	HITRONIC® HQN Outdoor Cable
		GOF DUPLEX Patchcord	
	Managed switch	ETHERLINE® ACCESS M08T02SFP	
Cable Glands	Splice box	HITRONIC® SBX	
		SKINTOP® INOX	SKINTOP® HYGIENIC

Intralogistics

High-performance connection technology for dynamic processes

In intralogistics, speed, flexibility and reliability are essential. Automated conveyor systems, AGV systems, stacker cranes in ASRS – they all depend on stable data communication.

LAPP supplies highly flexible data cables, reliable plug-in connections and ready-to-connect systems that are specially designed for applications involving constant movement with high bending cycles. Even with limited installation space and short cycle times, our products impress **with their durability and precision.**

Whether industrial Ethernet, torsion-resistant data cables, assembled systems or accessories for quick installation – with LAPP you get the optimal connection solution for networked, automated logistics processes.

Typical requirements:

- Continuous movement & flexibility: for cable chains, robots, shuttles.
- EMC protection: interference-free data flow despite the machine environment.
- Compact design and easy assembly: ideal for confined spaces.
- Real-time capability: high data rates, low latencies.



Discover solutions for your intralogistics.



Products

Sensors / Actuators	Flexible cables	UNITRONIC® SENSOR	
	Cables for cable chain	UNITRONIC® SENSOR FD	
	Cord sets	UNITRONIC® SENSOR M8	UNITRONIC® SENSOR SH M12
		UNITRONIC® SENSOR M8-M8	UNITRONIC® SENSOR M12 Power
		UNITRONIC® SENSOR M8-M12	UNITRONIC® SENSOR M12-M12 Power
		UNITRONIC® SENSOR M12-M8	UNITRONIC® SENSOR M12 M16
		UNITRONIC® SENSOR M12-M8 Snap-in	UNITRONIC® SENSOR Valve
		UNITRONIC® SENSOR M12	UNITRONIC® SENSOR Valve-M12
		UNITRONIC® SENSOR M12-M12	EPIC® SENSOR flush-type M8
		UNITRONIC® SENSOR PVC M12 M12-M12	EPIC® SENSOR flush-type M12
		UNITRONIC® SENSOR HD M12	EPIC® SENSOR M8Y M12Y
	Connectors	EPIC® SENSOR M8	EPIC® SENSOR M12
RS485, 422, Modbus	Flexible cables	UNITRONIC® BUS LD	
	Cables for cable chain	UNITRONIC® BUS LD FD P	
ASi	Flexible cables	UNITRONIC® BUS ASI	
	Cables for cable chain	UNITRONIC® BUS ASI FD	
CAN	Flexible cables	UNITRONIC® BUS CAN	
	Cables for cable chain	UNITRONIC® BUS CAN FD P	
	Cord sets	UNITRONIC® BUS CAN M12	
	Connector	EPIC® DATA CAN Sub-D	
DeviceNet	Flexible cables	UNITRONIC® DeviceNet	
	Cables for cable chain	UNITRONIC® DeviceNet FD	
	Cord sets	UNITRONIC® BUS CAN M12	
INTERBUS	Flexible cables	UNITRONIC® BUS IBS	
	Cables for cable chain	UNITRONIC® BUS IBS FD P	
PROFIBUS	Flexible cables	UNITRONIC® BUS PB	
	Cables for cable chain	UNITRONIC® BUS PB FD P FC	UNITRONIC® BUS PB FD P HYBRID
	Cord sets	UNITRONIC® BUS PB M12	
	Connectors	EPIC® DATA PB Sub-D	
Ethernet	LAN cables for building installation	ETHERLINE® LAN 200 Cat.5e	ETHERLINE® LAN 500 Cat.6A
		ETHERLINE® LAN 1000 Cat.7A	
Industrial Ethernet	Cables for fixed instalation	ETHERLINE® PN Cat.5	
	Flexible cables	ETHERLINE® PN Cat.5e FLEX	ETHERLINE® PN Cat.6A FLEX
		ETHERLINE® Cat.7 FLEX	
	Cable for cable chain	ETHERLINE® Cat.5e FD	ETHERLINE® Cat.6 FD
		ETHERLINE® PN Cat.7 FD	
	Patchcord for cabinets	ETHERLINE® LAN Cat.6A Patchcords	ETHERLINE® PN Cabinet Cat.6a
	Patchcords	ETHERLINE® Flex P Cat.5 Patchcords	ETHERLINE® PN Cat.5 Patchcords
		ETHERLINE® EC FD Cat.5e Patchcords	ETHERLINE® PN Flex Cat.5 Patchcords
		ETHERLINE® FLEX Cat.6A Patchcords	ETHERLINE® PN FD Cat.5 M12 Patchcords
		ETHERLINE® FD Cat.6 Patchcords	ETHERLINE® TORSION Cat.6A Patchcords
	RJ45 connectors	EPIC® DATA RJ45 Cat.5e	EPIC® DATA RJ45 Cat.6A
	M12 connectors	EPIC® DATA M12D	
	Unmanaged switches	ETHERLINE® ACCESS U05T-2GEN	ETHERLINE® ACCESS U08T-2GEN
	Managed PROFINET switches	ETHERLINE® ACCESS PNf	
Fibre Optic	Remote I/O devices	UNITRONIC® ACCESS MP08 IOL	
	POF	HITRONIC® POF DUPLEX Cable	HITRONIC® POF
	GOF	HITRONIC® HUN Universal Cable	HITRONIC® HDM cable
		HITRONIC® HQN Outdoor Cable	GOF DUPLEX Patchcord
	Managed switch	ETHERLINE® ACCESS M08T02SFP	
	Splice box	HITRONIC® SBX	



ÖLFLEX®
Power and control cables



UNITRONIC®
Data communication systems



ETHERLINE®
Data communication systems
for Ethernet technology



HITRONIC®
Optical transmission systems



EPIC®
Industrial connectors



SKINTOP®
Cable glands



SILVYN®
Protective cable conduit systems
and cable carrier systems



FLEXIMARK®
Marking systems

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