Intralogistics

Focus on conveyor technology

LAPP

We meet your requirements for modern intralogistics – today and in the future.

In a world where markets are changing ever faster and competitive pressure is increasing, companies need solutions that are not only flexible, scalable and efficient today, but also in the future. Especially in intralogistics – one of the most dynamic sectors – it is crucial to processes quickly to new requirements. Whether through the automation of processes, the networking of systems or the optimisation of resources – LAPP offers you the right solutions successfully shape your logistics of the future.

Your challenge – our solution

In intralogistics, companies face a multitude of challenges. The demand for faster availability of goods and flexible logistics processes is increasing, placing additional demands on infrastructure. Added to this is the growing need for automated and networked systems that must operate reliably and quickly at all times.

LAPP is your partner when it comes to optimising your logistics processes with innovative cable and connection solutions. We offer tailor-made solutions that increase both efficiency and flexibility. You can rely on our products to meet your modern intralogistics requirements – today and in the future.

Connection solutions for your automation

With customised connection solutions from With LAPP's tailor-made connection solutions, we guarantee reliable communication and Data communication within your automated logistics systems.

Thanks to our cables and connectors, we enable you to establish a stable connection between the machines and the central control systems, guaranteeing smooth and error-free communication. With our LAPP Harnessing Solutions, we also offer cable assemblies, servo cables and drag chain systems that ensure your machines and systems are always supplied with power – even under dynamic and rapidly changing conditions.

Modularity – flexibility that pays off

The requirements for intralogistics are not static. Seasonal fluctuations, unforeseen market developments or sudden changes in demand require a high degree of flexibility. Our modular solutions enable you to adapt your infrastructure to your needs.

Dynamics – efficiency that moves

An important part of our solution is the integration of intelligent networking and Industry 4.0 technologies, which enable you to control all processes efficiently and respond to changes in real time. This allows you to tailor your logistics to the needs of your customers and markets at any time.

Scalability – for sustainable growth

Growth and efficiency are inextricably linked. LAPP helps you to make your logistics processes sustainable with scalable solutions. Our products and systems enable you to continuously expand your existing infrastructure without losing efficiency.

Increasing connectivity, the use of IoT and the integration of automated storage and transport systems require a high degree of scalability in order to be able to respond quickly to market changes or product innovations. Our solutions are designed to adapt flexibly to these changes – without having to fundamentally overhaul your entire infrastructure.

LAPP: your partner for the future of intralogistics

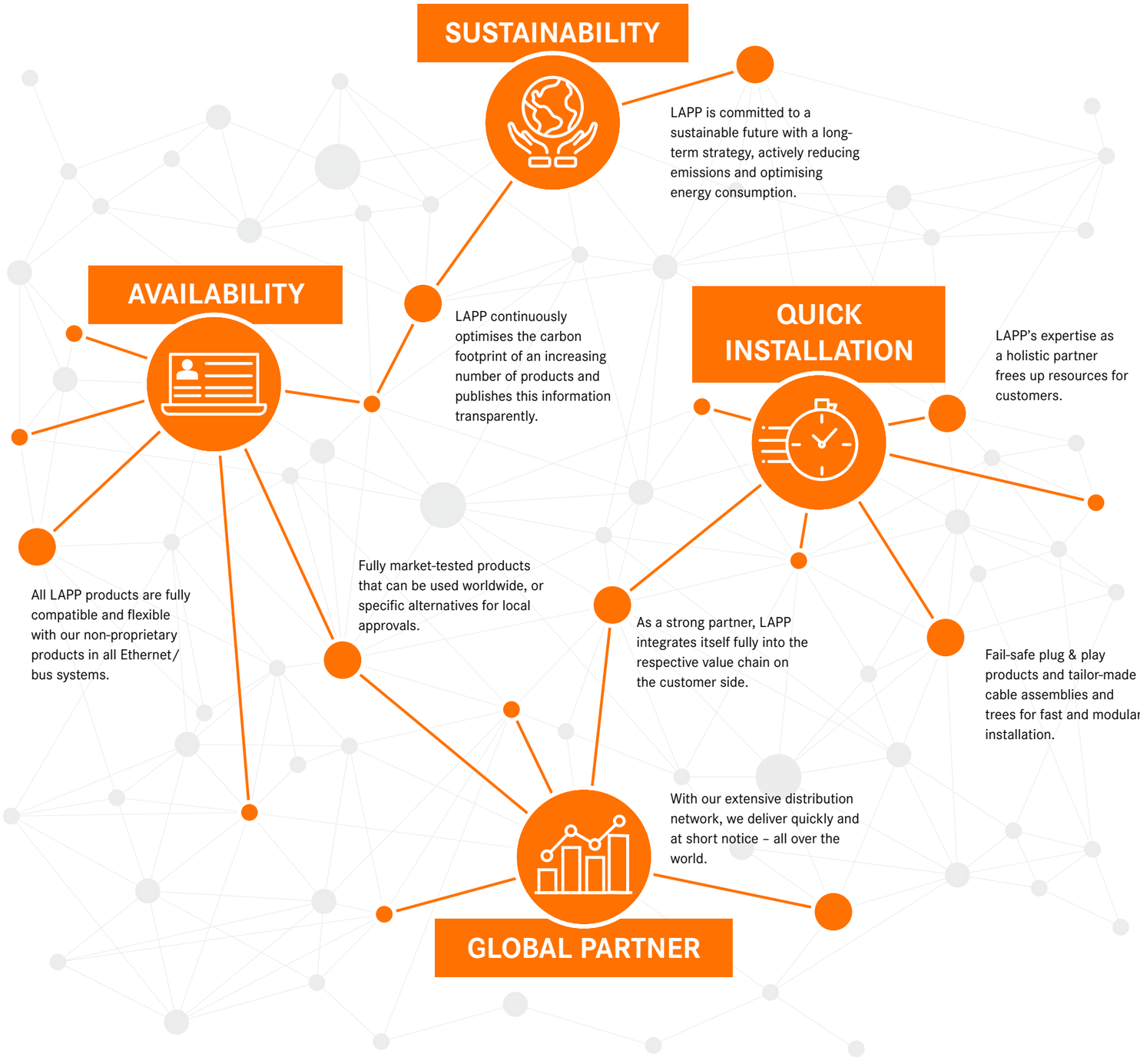
Rely on LAPP's expertise to optimise your intralogistics processes and prepare them for the future. Our high-performance connection solutions and our expertise in connection technology make us your reliable partner in an increasingly digitalised and automated world.

With LAPP at your side, you can concentrate on your core competencies while we ensure that your logistics are always one step ahead.

Find out more:

Intralogistics: Everything is in flux

Intralogistics: "The signposts for the future are clearly visible today"



LAPP – your global partner for innovative connection solutions

With a global product portfolio, LAPP offers a comprehensive selection of high-quality products that can be used in any intralogistics and automation application.

Our solutions are fully compatible and flexible – they fit easily into any Ethernet or bus system environment without the need for proprietary products. This enables seamless integration into your existing infrastructure.

Our products are not only market-tested worldwide, but also certified for local approvals in various regions around the world. This guarantees that you can always rely on solutions that meet the highest safety and quality standards – no matter where you operate.

LAPP supplies fault-free plug-and-play products and tailor-made connection solutions that enable quick and modular installation. With our expertise, we ensure that your systems are easy and efficient to implement, without complications or unnecessary delays.

As a comprehensive partner, LAPP offers more than just products – we also provide additional services that help you free up resources. Our tailor-made solutions are perfectly tailored to your specific needs and thoroughly tested. This allows you to concentrate on your core competencies while we ensure that your logistics and automation systems run smoothly and are future-proof.

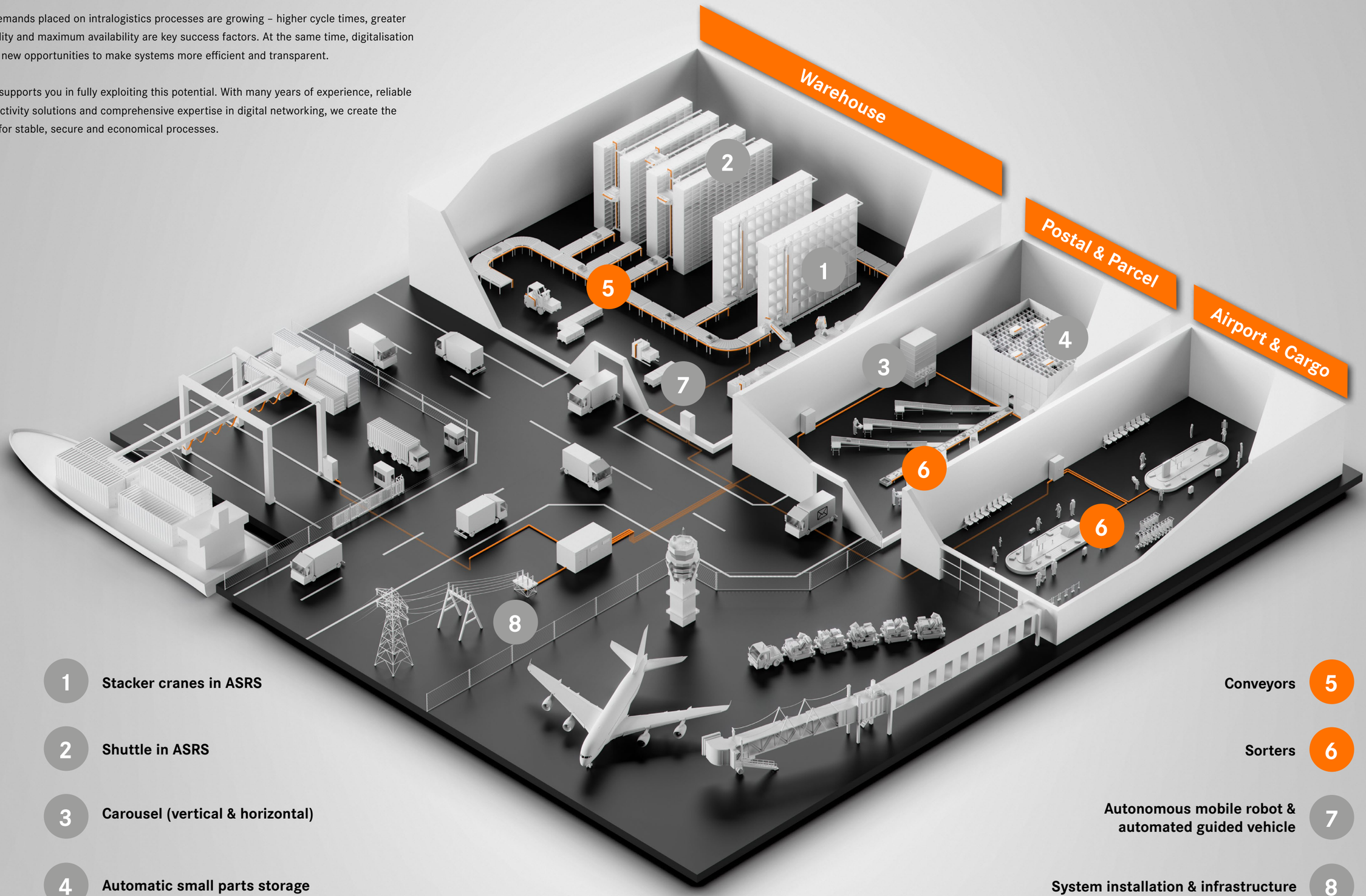
With LAPP, you have a strong partner at your side who supports you in making your processes more efficient and using your resources optimally.

Intralogistics at LAPP
www.lapp.com/en/de/e/083321

Staying in motion with LAPP

The demands placed on intralogistics processes are growing – higher cycle times, greater flexibility and maximum availability are key success factors. At the same time, digitalisation offers new opportunities to make systems more efficient and transparent.

LAPP supports you in fully exploiting this potential. With many years of experience, reliable connectivity solutions and comprehensive expertise in digital networking, we create the basis for stable, secure and economical processes.



1 Stacker cranes in ASRS

2 Shuttle in ASRS

3 Carousel (vertical & horizontal)

4 Automatic small parts storage

Conveyors 5

Sorters 6

Autonomous mobile robot & automated guided vehicle 7

System installation & infrastructure 8

Conveyor technology in transition

The demands placed on modern conveyor systems are constantly increasing. Higher throughput, flexible layouts and shorter project durations characterise today's intralogistics. At the same time, economic pressure is growing: installation costs must be reduced, system availability increased and expansions implemented efficiently.

Choosing the right cabling architecture is a decisive factor for success. Whether centralised or decentralised, every solution must be modular, scalable and economical in the long term.

LAPP offers you a comprehensive portfolio of connectivity solutions for conveyor technology. From traditional centralised concepts to modern decentralised architectures, we offer tailor-made solutions for different plant structures.

Plug. Play. Convey.

Conveyor systems consist of a large number of spatially distributed modules, drives and sensors. In traditional, centralised concepts, modules are often supplied from the control cabinet or directly at the conveyor belt.

This often leads to:

- long cable runs
- high installation costs
- limited flexibility for subsequent adjustments

With increasing modularisation, such structures are reaching their limits. New layouts, extensions or conversions often require extensive intervention in the existing cabling.

The architecture of energy and data distribution thus becomes a decisive lever for efficiency.

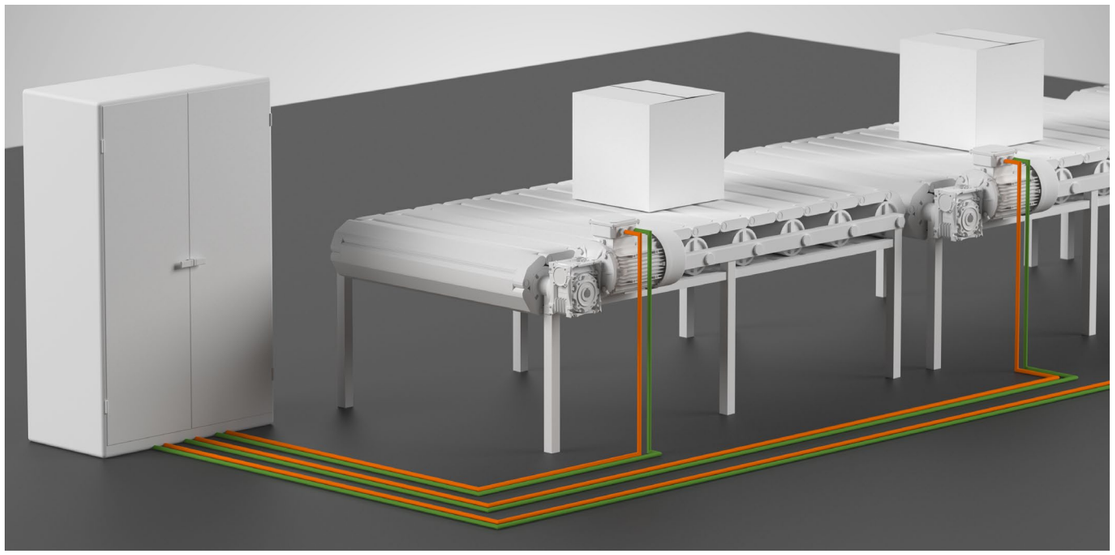
LAPP: Your partner for the future of intralogistics

Rely on LAPP's expertise to optimise your intralogistics processes and prepare them for the future. Our connectivity solutions and our expertise in connection technology make us your reliable partner in an increasingly digitalised and automated world. With LAPP at your side, you can concentrate on your core competencies while we ensure that your logistics are always one step ahead.

Decentralised cabling in conveyor technology – the smart solution?

Read our article now: How decentralised solutions make your systems more efficient and flexible – and discover practical tips from expert Pavla Borovianova. Contact us for your ideal solution!

Central cabling



In central cabling concepts, controllers, frequency converters and power distribution are mainly located in the control cabinet or directly on the conveyor belt. From there, motors, sensors and actuators are supplied.

Challenges

- Long cable runs, resulting in many metres of cable to motors and sensors
- High installation costs

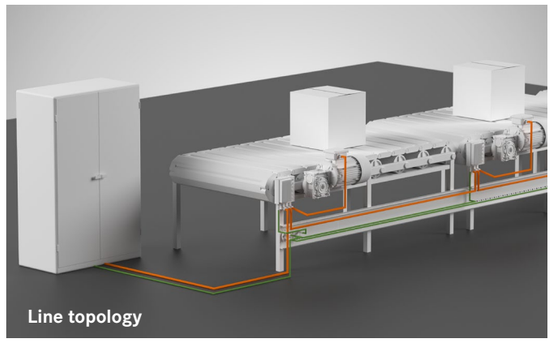
Advantages

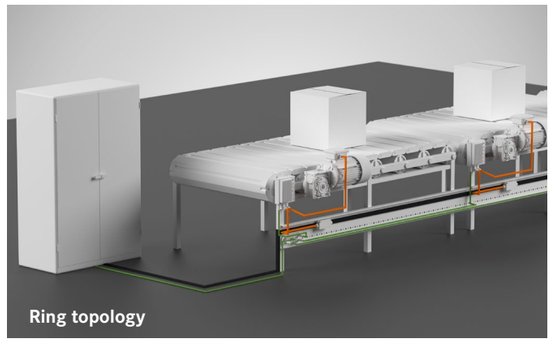
- Clear structure
- Proven architecture in many machine concepts

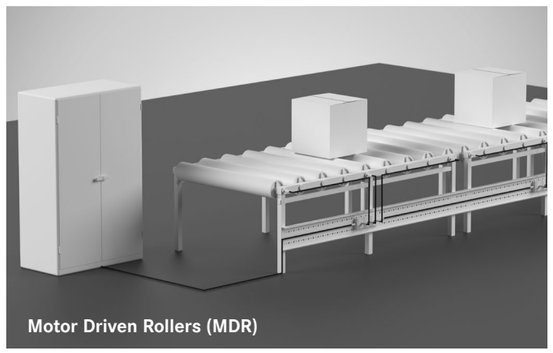
LAPP offers a portfolio of connectivity solutions with reliable performance – even over long distances.

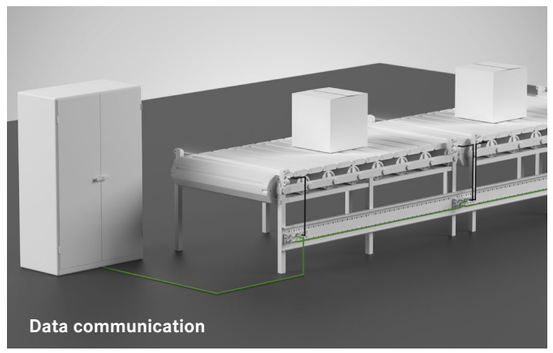
Power and control cables	Data communication systems	Data communication systems for Ethernet technology	Industrial connectors
ÖLFLEX® CLASSIC 100	UNITRONIC® FD / CY	ETHERLINE® Cat.5e FD	EPIC® ULTRA H-B
ÖLFLEX® CLASSIC 110	UNITRONIC® FD P plus A	ETHERLINE® Cat.5e EC FD	EPIC® H-A
ÖLFLEX® CLASSIC 110 BK	UNITRONIC® FD CP plus A	ETHERLINE® Cat.5e H FLEX	EPIC® H-Q TG
ÖLFLEX® CLASSIC 115 CY	UNITRONIC® FD CP (TP) plus A	ETHERLINE® PN Flex Cat.5	EPIC® SIGNAL M23 D6 TWIST
ÖLFLEX® 191 / CY	UNITRONIC® BUS PB M12	ETHERLINE® PN Cat.5 FD	EPIC® POWER LS1
ÖLFLEX® CLASSIC 100 H	UNITRONIC® BUS CAN M12	ETHERLINE® FESTOON PN Cat.5e	EPIC® SIGNAL M23
ÖLFLEX® CLASSIC 110 H	UNITRONIC® SENSOR M8-M12	ETHERLINE® PN FLEX Cat.5 Patchcords	EPIC® DATA RJ45
ÖLFLEX® CLASSIC 130 H	UNITRONIC® SENSOR M12 Power	ETHERLINE® Cat.6a FLEX	EPIC® DATA M12X
ÖLFLEX® CLASSIC 135 CH		ETHERLINE® Cat.6 FD	EPIC® DATA M12D
ÖLFLEX® SERVO 719 CY		ETHERLINE® Cat.6a FLEX Patchcords	EPIC® POWER M12L
ÖLFLEX® SERVO FD 796 CP / 798 CP / 7FTC		ETHERLINE® Cat.6 FD Patchcords	
ÖLFLEX® SERVO 728 CY		ETHERLINE® Cabinet Cat.6a Patchcords	
		ETHERLINE® LAN Cat.6a Patchcords	
Cable glands	**Cable protection and guiding systems**	**Marking systems**	
SKINTOP® ST-M	SILVYN® RILL PA 6	FLEXIMARK® Component & cable marking	
SKINTOP® MS-M	SILVYN® BRAID	FLEXIMARK® Safety signs	
SKINTOP® MULTI		FLEXIMARK® Printer & software	

Decentralised cabling









In decentralised architectures, power distribution, drive technology and communication are integrated directly along the conveyor line. Components such as frequency converters or I/O modules are located close to the process.

This structure is ideal for modular conveyor systems with spatially distributed axes.

Advantages

- Significantly reduced cable lengths
- Faster installation thanks to plug & play
- High flexibility for expansions
- Improved EMC due to short motor cables

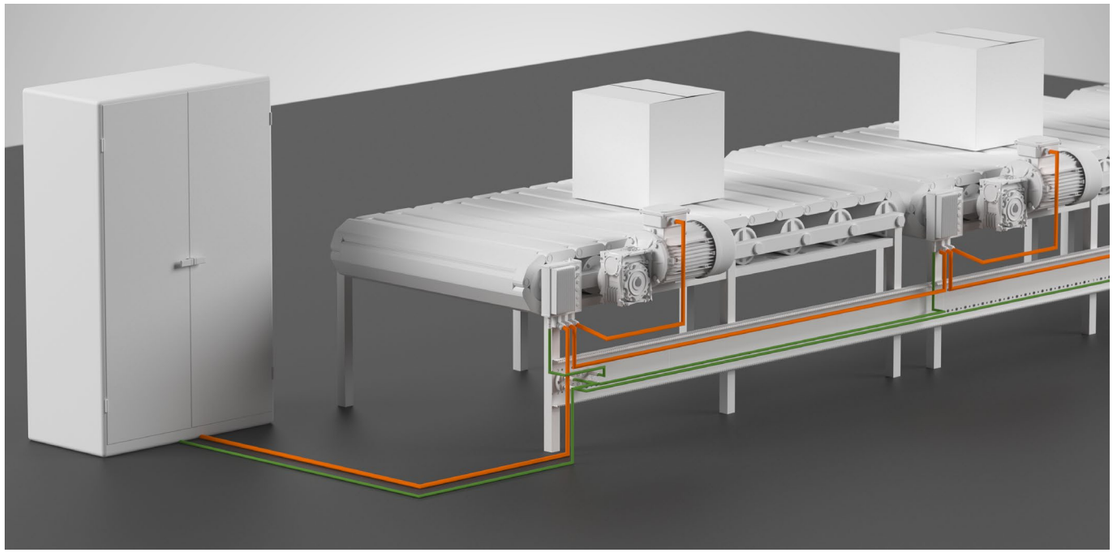
Decentralised cabling creates the basis for scalable conveyor technology.

Efficient cabling along the line

Stable and flexible cabling is the basis of every conveyor system. Whether ring or line topology or MDR and data communication – the right structure reduces installation costs and facilitates subsequent expansions.

LAPP offers comprehensive solutions for all cabling in centralised and decentralised concepts – pre-assembled, robust and internationally applicable.

Line topology



Line topology follows a clear principle: modules are connected in series – without a continuous main line. Each unit is directly connected to the next, forming a linear structure along the conveyor line.

This concept is particularly suitable for highly modular conveyor systems in which individual zones operate independently and can be quickly added or replaced as needed.

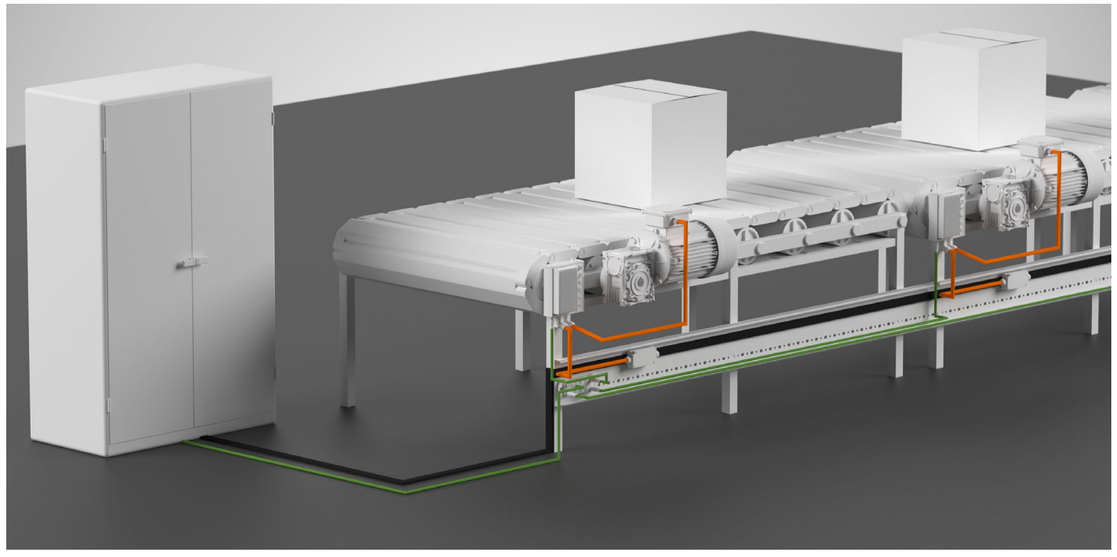
In contrast to other systems, here the wiring is done from module to module. Power and communication are carried from unit to unit. This reduces installation costs and creates a clearly structured line architecture.

Advantages

- High modularity
- Reduced installation effort
- Fast scaling
- Clear zone structure

Power and control cables	Data communication systems	Data communication systems for Ethernet technology	Connectors
ÖLFLEX® CLASSIC 100	UNITRONIC® FD / CY	ETHERLINE® Cat.5e FD	EPIC® ULTRA H-B
ÖLFLEX® CLASSIC 110	UNITRONIC® FD P plus A	ETHERLINE® Cat.5e EC FD	EPIC® H-A
ÖLFLEX® CLASSIC 110 BK	UNITRONIC® FD CP plus A	ETHERLINE® Cat.5e H FLEX	EPIC® H-Q TS housing
ÖLFLEX® CLASSIC 115 CY	UNITRONIC® FD CP (TP) plus A	ETHERLINE® PN Flex Cat.5	EPIC® H-Q 8 inserts
ÖLFLEX® 191 / CY	UNITRONIC® BUS PB M12	ETHERLINE® PN Cat.5 FD	EPIC® POWER LS1
ÖLFLEX® CLASSIC 100 H	UNITRONIC® BUS CAN M12	ETHERLINE® FESTOON PN Cat.5e	EPIC® SIGNAL M23
ÖLFLEX® CLASSIC 110 H	UNITRONIC® SENSOR M8-M12	ETHERLINE® PN FLEX Cat.5 Patchcords	EPIC® DATA RJ45
ÖLFLEX® CLASSIC 130 H	UNITRONIC® SENSOR M12 Power	ETHERLINE® Cat.6a FLEX	EPIC® DATA M12X
ÖLFLEX® CLASSIC 135 CH	Distribution box M12 variable connection	ETHERLINE® Cat.6 FD	EPIC® DATA M12D
ÖLFLEX® SERVO 719 CY		ETHERLINE® Cat.6a FLEX Patchcords	EPIC® POWER M12L
ÖLFLEX® SERVO FD 796 CP / 798 CP / 7FTC		ETHERLINE® Cat.6 FD Patchcords	
		ETHERLINE® Cabinet Cat.6a Patchcords	
		ETHERLINE® LAN Cat.6a Patchcords	
		ETHERLINE® ACCESS U IP67	
		ETHERLINE® ACCESS PN08M12	
Cable glands	**Cable protection and guiding systems**	**Marking systems**	
SKINTOP® ST-M	SILVYN® RILL PA 6	FLEXIMARK® Component & cable marking	
SKINTOP® MS-M	SILVYN® BRAID	FLEXIMARK® Safety signs	
SKINTOP® MULTI		FLEXIMARK® Printer & software	

Ring topology



The ring topology enables structured and efficient distribution of power and signals along the conveyor line. It reduces installation effort and create clear transfer points between modules.

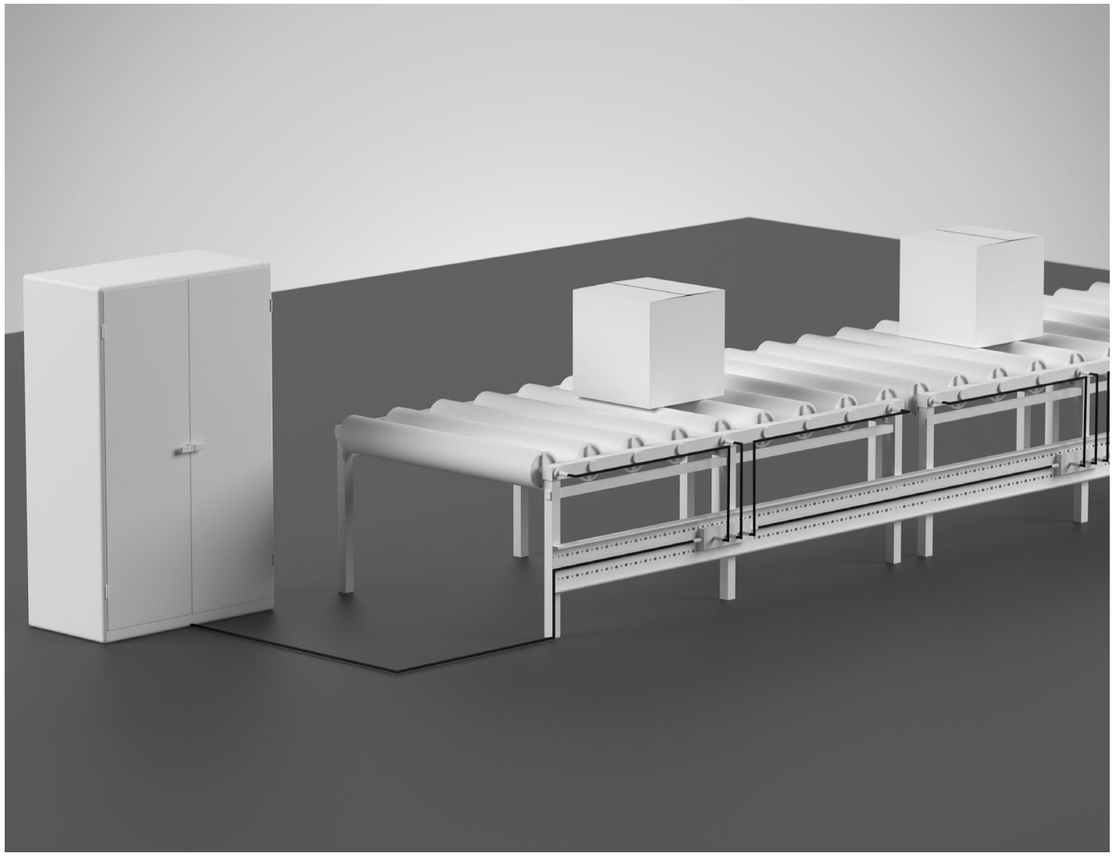
In decentralised architectures, they play a central role in connecting main lines and individual drives or sensors.

Advantages

- Reduced cabling effort
- Clear module structure
- Easy maintenance and replaceability

Power and control cables	Data communication systems	Data communication systems for Ethernet technology	Connectors
ÖLFLEX® CLASSIC 100	UNITRONIC® FD / CY	ETHERLINE® Cat.5e FD	EPIC® ULTRA H-B
ÖLFLEX® CLASSIC 110	UNITRONIC® FD P plus A	ETHERLINE® Cat.5e EC FD	EPIC® H-A
ÖLFLEX® CLASSIC 110 BK	UNITRONIC® FD CP plus A	ETHERLINE® Cat.5e H FLEX	EPIC® H-Q
ÖLFLEX® CLASSIC 115 CY	UNITRONIC® FD CP (TP) plus A	ETHERLINE® PN Flex Cat.5	EPIC® POWER LS1
ÖLFLEX® 191 / CY	UNITRONIC® BUS PB M12	ETHERLINE® PN Cat.5 FD	EPIC® SIGNAL M23
ÖLFLEX® CLASSIC 100 H	UNITRONIC® BUS CAN M12	ETHERLINE® FESTOON PN Cat.5e	EPIC® DATA RJ45
ÖLFLEX® CLASSIC 110 H	UNITRONIC® SENSOR M8-M12	ETHERLINE® PN FLEX Cat.5 Patchcords	EPIC® DATA M12X
ÖLFLEX® CLASSIC 130 H	UNITRONIC® SENSOR M12 Power	ETHERLINE® Cat.6a FLEX	EPIC® DATA M12D
ÖLFLEX® CLASSIC 135 CH	Distribution box M12 variable connection	ETHERLINE® Cat.6 FD	EPIC® POWER M12L
ÖLFLEX® SERVO 719 CY		ETHERLINE® Cat.6a FLEX Patchcords	
ÖLFLEX® SERVO FD 796 CP / 798 CP / 7FTC		ETHERLINE® Cat.6 FD Patchcords	
		ETHERLINE® Cabinet Cat.6a Patchcords	
		ETHERLINE® LAN Cat.6a Patchcords	
		ETHERLINE® ACCESS U IP67	
Cable glands	**Cable protection and guiding systems**	**Marking systems**	
SKINTOP® ST-M	SILVYN® RILL PA 6	FLEXIMARK® Component & cable marking	
SKINTOP® MS-M	SILVYN® BRAID	FLEXIMARK® Safety signs	
SKINTOP® MULTI		FLEXIMARK® Printer & software	

Motor Driven Rollers (MDR)



MDRs play a central role in the conveyor transport of goods and parcels for light to medium loads. The drive is integrated directly into the drive motor roller – for space-saving, efficient solutions.

The right cabling is crucial for reliability and performance.

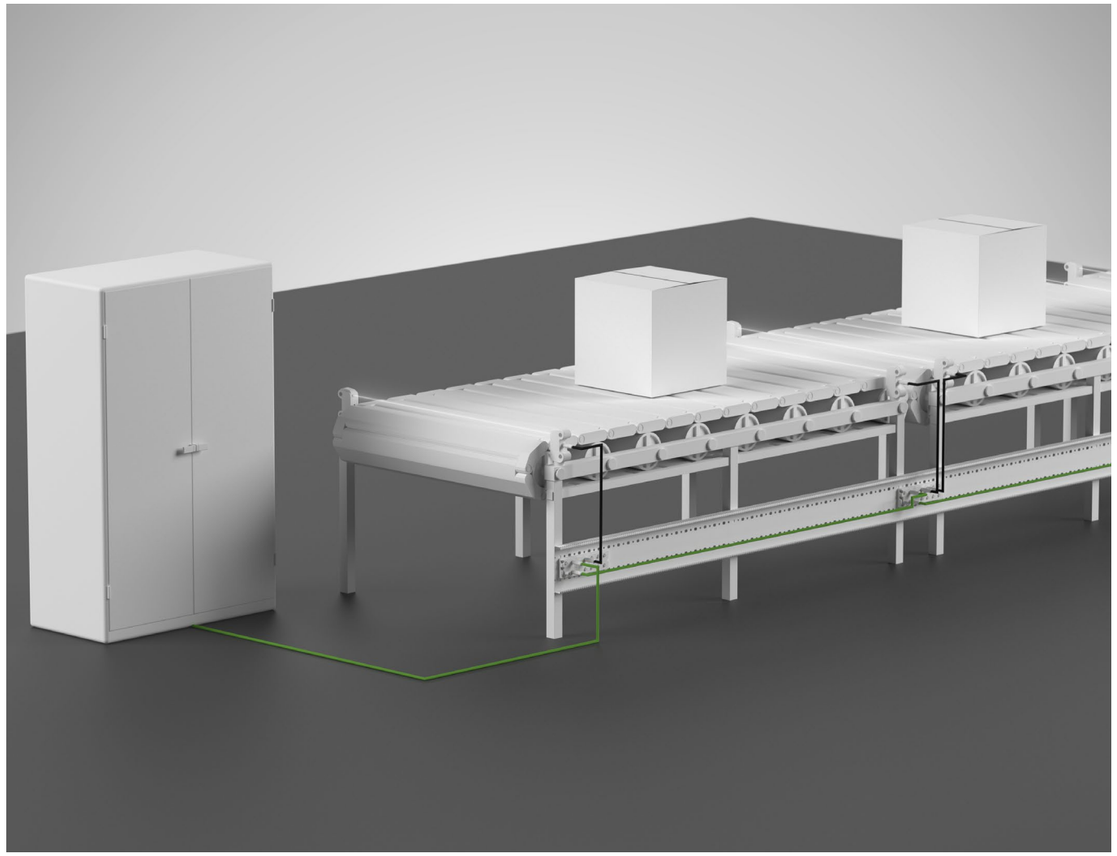
LAPP offers coordinated connection solutions for MDR systems – robust, compact and designed for modular conveyor structures.

Advantages

- Compact integration
- Energy-efficient drive technology
- Ideal for modular conveyor modules

Power and control cables	Data communication systems	Data communication systems for Ethernet technology	Connectors
ÖLFLEX® CLASSIC 130 H	UNITRONIC® Fieldbus / Data cables	ETHERLINE® CAT.5 / CAT.6 / CAT.7	EPIC® POWER M12L
ÖLFLEX® CLASSIC 135 CH	UNITRONIC® BUS ASI	ETHERLINE® PN (A/B/C)	EPIC® DATA M12D
ÖLFLEX® SERVO 719 CY	UNITRONIC® SENSOR M8-M12	ETHERLINE® ACCESS	EPIC® DATA RJ45
ÖLFLEX® SERVO FD 796 CP / 798 CP / 7FTC		ETHERLINE® ACCESS PN08M12	
ÖLFLEX® DC 100		ETHERLINE® PN FLEX Cat.5 Patchcords	
		ETHERLINE® Cat.6a FLEX Patchcords	
Cable glands	**Marking systems**		
SKINTOP® ST-M	FLEXIMARK® Component & cable marking		
SKINTOP® MS-M			
SKINTOP® MULTI			

Data communication



Modern conveyor systems are data-driven. Sensors, drives and controllers must communicate reliably with each other.

LAPP offers industrial data cables and suitable connectors for common protocol standards such as PROFINET, as well as other Industrial Ethernet and fieldbus standards. Robust designs and high EMC resistance ensure stable communication – even in dynamic intralogistics environments.

Advantages

- Secure Data communication
- High interference immunity
- Compatibility with common protocol standards

Data communication systems	Data communication systems for Ethernet technology	Connectors	Marking systems
UNITRONIC® BUS ASI	ETHERLINE® CAT.5 / CAT.6 / CAT.7	EPIC® DATA RJ45	FLEXIMARK® Component & cable marking
UNITRONIC® BUS PB M12	ETHERLINE® PN (A/B/C)	EPIC® DATA M12X	
UNITRONIC® BUS CAN M12	ETHERLINE® ACCESS	EPIC® DATA M12D	
UNITRONIC® SENSOR M8-M12	ETHERLINE® ACCESS PN08M12		
UNITRONIC® SENSOR M12 Power	ETHERLINE® PN FLEX Cat.5 Patchcords		
Distribution box M12 variable connection	ETHERLINE® Cat.6a FLEX Patchcords		
	ETHERLINE® Cat.6 FD Patchcords		
	ETHERLINE® LAN Cat.6a Patchcords		

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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