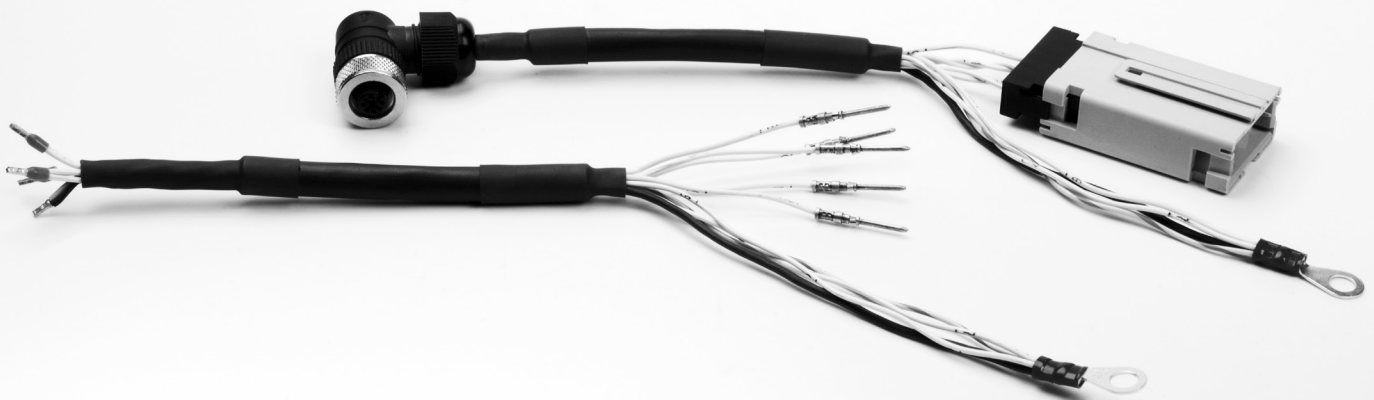


# ÖLFLEX<sup>®</sup> CONNECT CABLES

Cable Systems made by Lapp

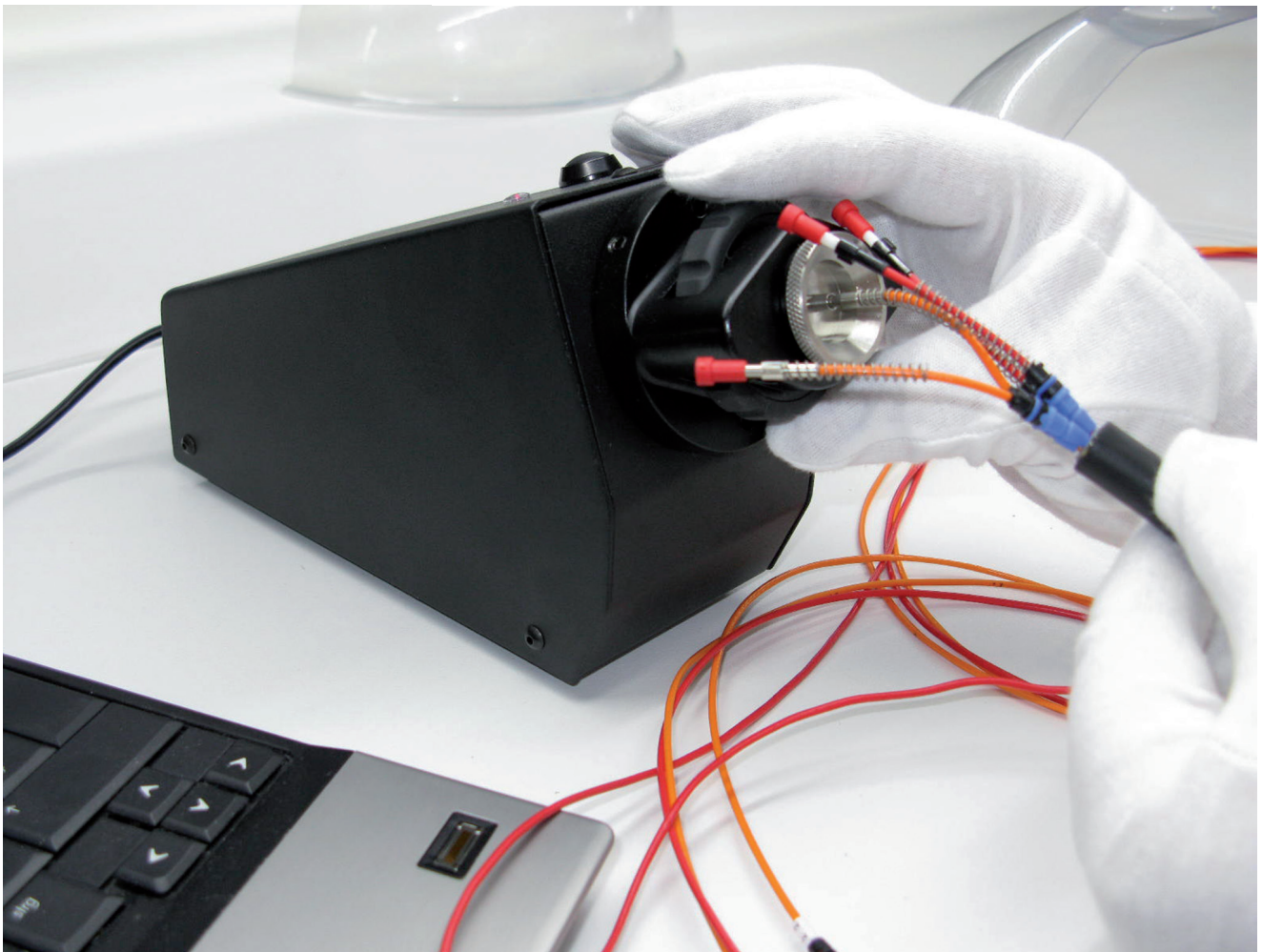
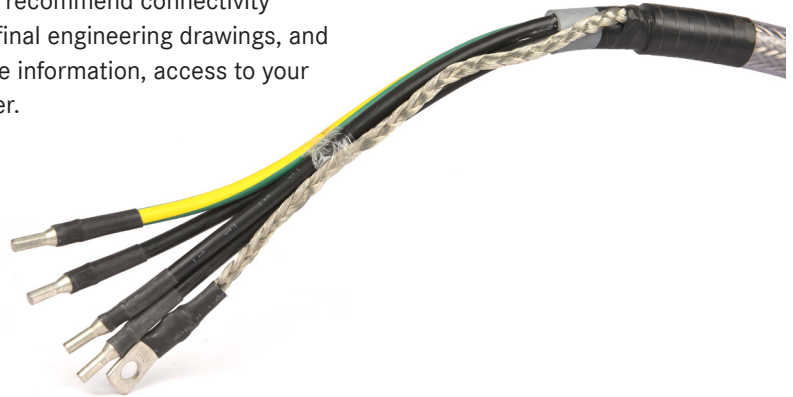


**LAPP GROUP**

# CABLE SOLUTIONS FROM A TO Z

Lapp produces different cables for CNC machinery, switch boxes, control cabinets, and electrical assemblies. Our product range encompasses single- and multi-conductor cables and EMC-shielded cables, all of which can be fitted with a wide selection of crimp contacts, connectors, and housings for your specific application.

The team at Lapp is committed to provide the entire solution for you, our customers. Developing a concept, application engineering, and executing in production can be a very complex task for your team. Our engineering expertise and assembly processes will enable you to apply your resources for other needs. The Lapp team will review interconnection needs, recommend connectivity solutions, provide concept drawings, quotations, final engineering drawings, and quality finished products. You only need to provide information, access to your knowledgeable project team, and a purchase order.



# ÖLFLEX® CONNECT CABLES

For over 30 years, Lapp's dedicated and highly qualified team of engineers, technicians, sales, and service personnel have been developing customized cable assembly solutions – from the design phase to prototyping to production and quality control.

Our comprehensive inventory of cables, connectors, and accessories enables us to respond quickly and flexibly to your requirements, and we will source additional components as required to meet your specifications. As a member of the UL Client Test Data Program, Lapp is able to address your project quickly, efficiently, and handle projects from the small and simple to the large and complex.

## Market focus

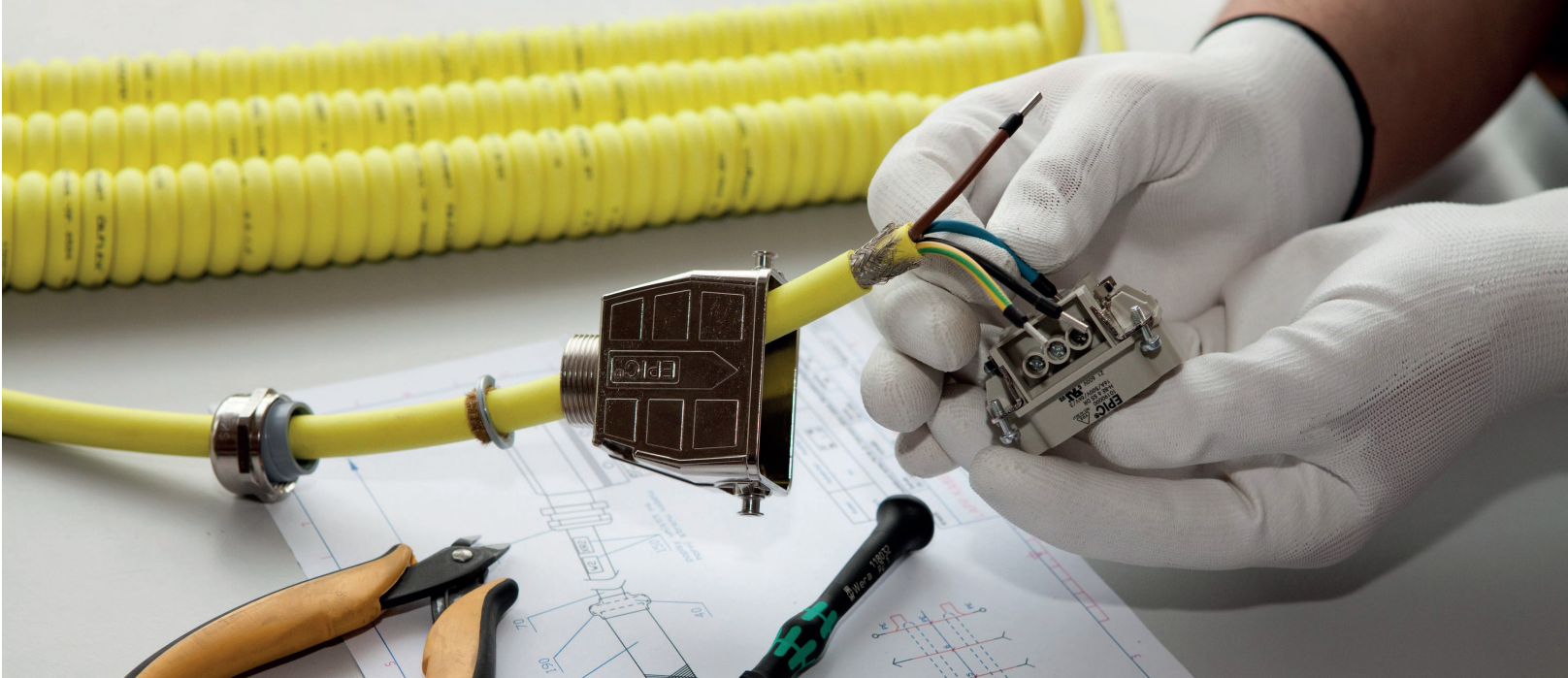
- OEMs
- Industrial equipment
- Metal industry
- Automotive and suppliers
- Machine tools
- Textile industry
- Renewable energy
- and many more

## PROJECT MANAGEMENT APPROACH

Set your expectations high and rely on cable assembly solutions made by Lapp.

- Technical evaluation
- Connectivity solution proposal
- Conceptual design and prototyping
- Bill of Material sign off
- Assembly of system solution
- Final testing





## CLEAR BENEFITS

### No capital expenditure

You will not need to invest in your own production facilities. Instead, leverage Lapp's equipment and tools

### Less operating expenditure

Benefit from a simplified supplier base. Lapp supplies you with everything related to cable assemblies from a single source

### Reduced Inventory

No stocks of connectors, cables, conduits, and hoses. No component scrap or cutting waste

### Highest scalability

With Lapp's extensive inventory you're poised to respond to increases in demand

### Technical expertise

Make use of Lapp's expert technicians and their extensive knowledge of cabling technology

### Uncompromising brand quality

High quality products for maximum reliability and safety

## OUR RANGE OF SERVICES

- Cable cut to specifications
- Stripping
- Crimping
- Heat shrinking
- Markings (labels, sleeves, marking rings, packing, stainless steel marking)
- Overmolding
- Cable printing
- Crimp force monitoring
- Push-pull test
- Resistance test

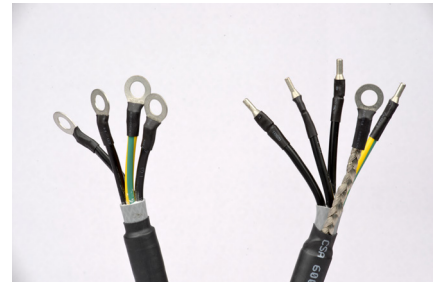
# OUR PRODUCT PORTFOLIO



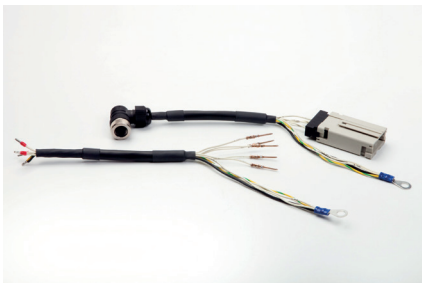
Cable with gland, connectors, and end sleeve



Continuous flex data cable with connectors for power chain



Cable with ring terminals



Crimped with heat shrink tube on cable with circular connector



Cable with circular connector and earth cable with heat shrink tube

## PREMIUM QUALITY SPIRAL CABLES

When producing spiral cables, Lapp has a wealth of expertise at our disposal. Flexibility and durability are key factors for applications requiring long term high performance. It is also crucial to have the appropriate insulation and the right conductor material. With Lapp, your spiral cables are definitely in safe hands.

### Features of the spiral cables:

- PUR or rubber outer sheath to withstand high mechanical stress
- Extension lengths of up to 3.5x the unextended spiral length
- High restoring force
- Various cable cross sections from 18 to 24 AWG
- Unextended lengths greater than 6 ft. are customizable



# ÖLFLEX® CONNECT SERVO

Servo Systems made by Lapp

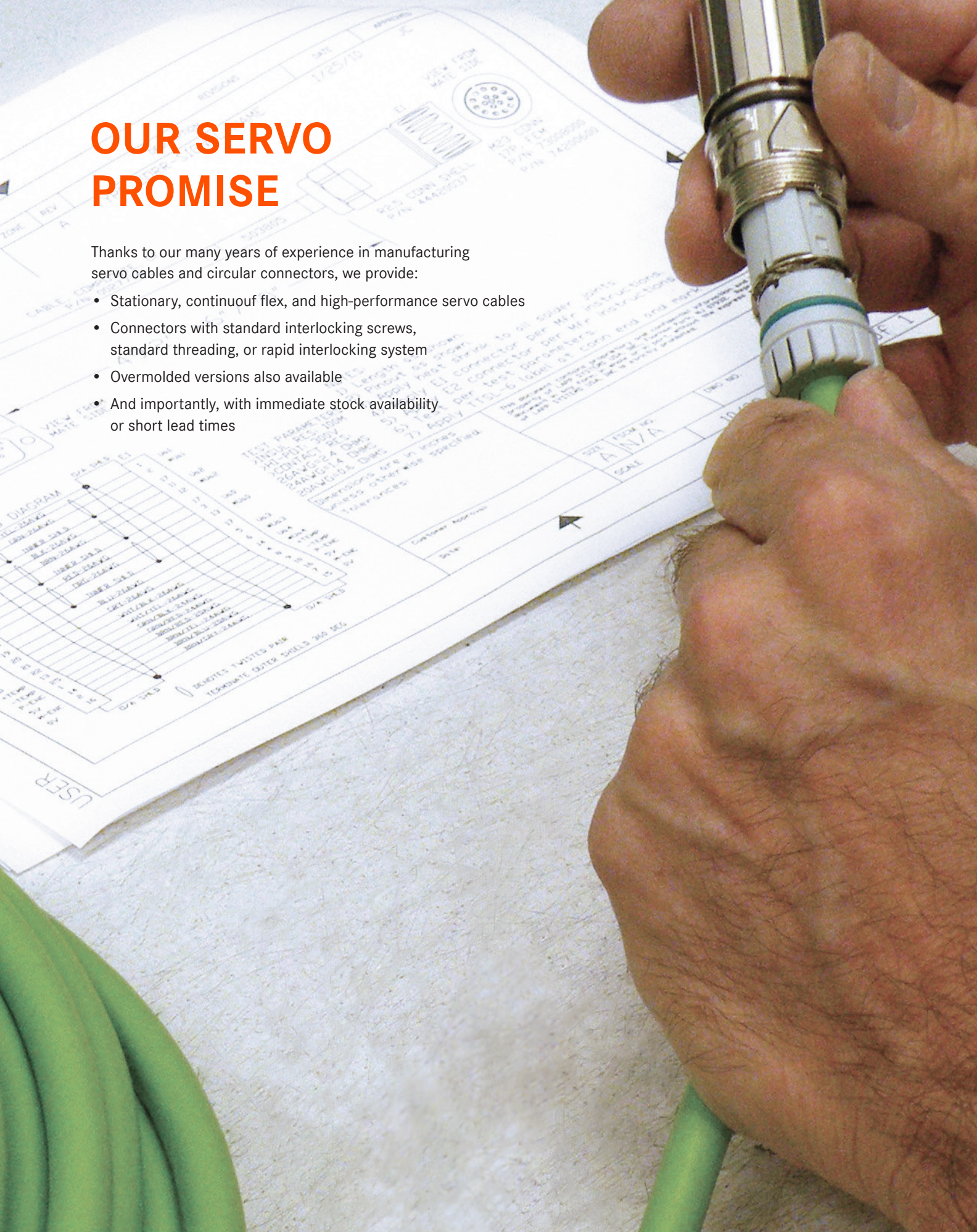


**LAPP GROUP**

# OUR SERVO PROMISE

Thanks to our many years of experience in manufacturing servo cables and circular connectors, we provide:

- Stationary, continuous flex, and high-performance servo cables
- Connectors with standard interlocking screws, standard threading, or rapid interlocking system
- Overmolded versions also available
- And importantly, with immediate stock availability or short lead times



# ÖLFLEX® CONNECT SERVO

As a leading manufacturer of assembled servo cable systems, Lapp offers all of the major industry standards for use in a variety of areas in industrial machinery and drive systems. With international manufacturing excellence, we produce the assemblies in our own facilities across the world.

Whether your application requires a cost-effective servo solution for basic applications, something specially designed for flexing applications, or a servo solution designed for highly dynamic operation, Lapp offers the right solution for every requirement. All of our servo cables are put through their paces at our UL Client Test Data Center with the application site in mind, ensuring maximum quality, reliability, and operational safety.

## Market focus

- **Machine tool**
- **Packaging machines**
- **Wood processing equipment**
- **Industrial machinery**
- **Material handling**
- **...and much more**

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SIEMENS® is a registered trademark of SIEMENS AG.

INDRAMAT® is a registered trademark of Bosch Rexroth, Inc.

LENZE® is a registered trademark of Lenze AG.

SEW® is a registered trademark of SEW Eurodrive GmbH & Co.





# CLEAR ADVANTAGES

## Uncompromising quality

Tested to all standard approval tests and to additional tests in our laboratory

## Consistent product quality

Globally standardized and automated production process

## Cutting-edge technology

Our servo cables are designed with an innovative shielded connection to the connector.

## Strong design heritage

More than 50 years of technology leadership in cables and connectors

## Multi-brand availability

One-stop shop for all major servo brands

## Availability at short notice

For components and servo cables of all performance classes

## Fastest response

Thanks to our deep expertise in connectivity technology, we can develop customized solutions quickly

## Maximum flexibility

High volume customized special products for project business

## Global footprint

Sales, technical support and production

## Convenient ordering

Via a phone call, online or through one of our sales representatives

## Our newly designed servo cables:

- Global quality standard due to automated production process
- 360° screen contact for optimum screening

- All necessary approvals:

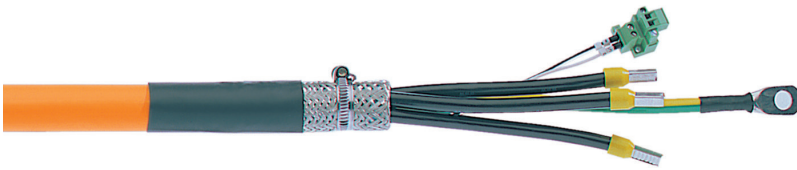


# INDUSTRY STANDARDS

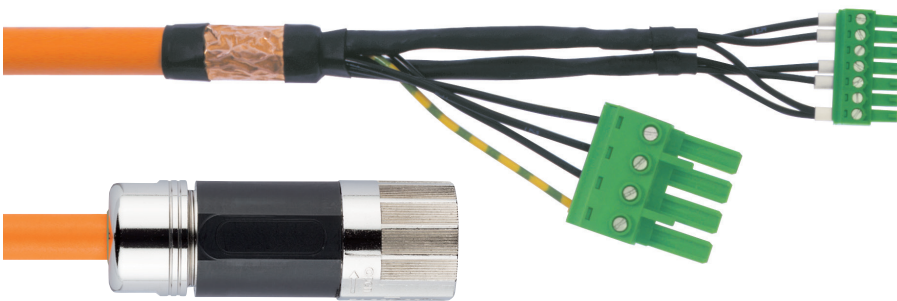
As a leading provider of assembled servo cable systems, Lapp provides all major industry standards for drive systems and industrial machinery.



**ÖLFLEX® CONNECT SERVO**  
for Rockwell Automation® motors



**ÖLFLEX® CONNECT SERVO**  
according to SIEMENS® standards



**ÖLFLEX® CONNECT SERVO**  
according to INDRAMAT® standards



**ÖLFLEX® CONNECT SERVO**  
according to LENZE® & SEW® standards

# ÖLFLEX® CONNECT CHAIN

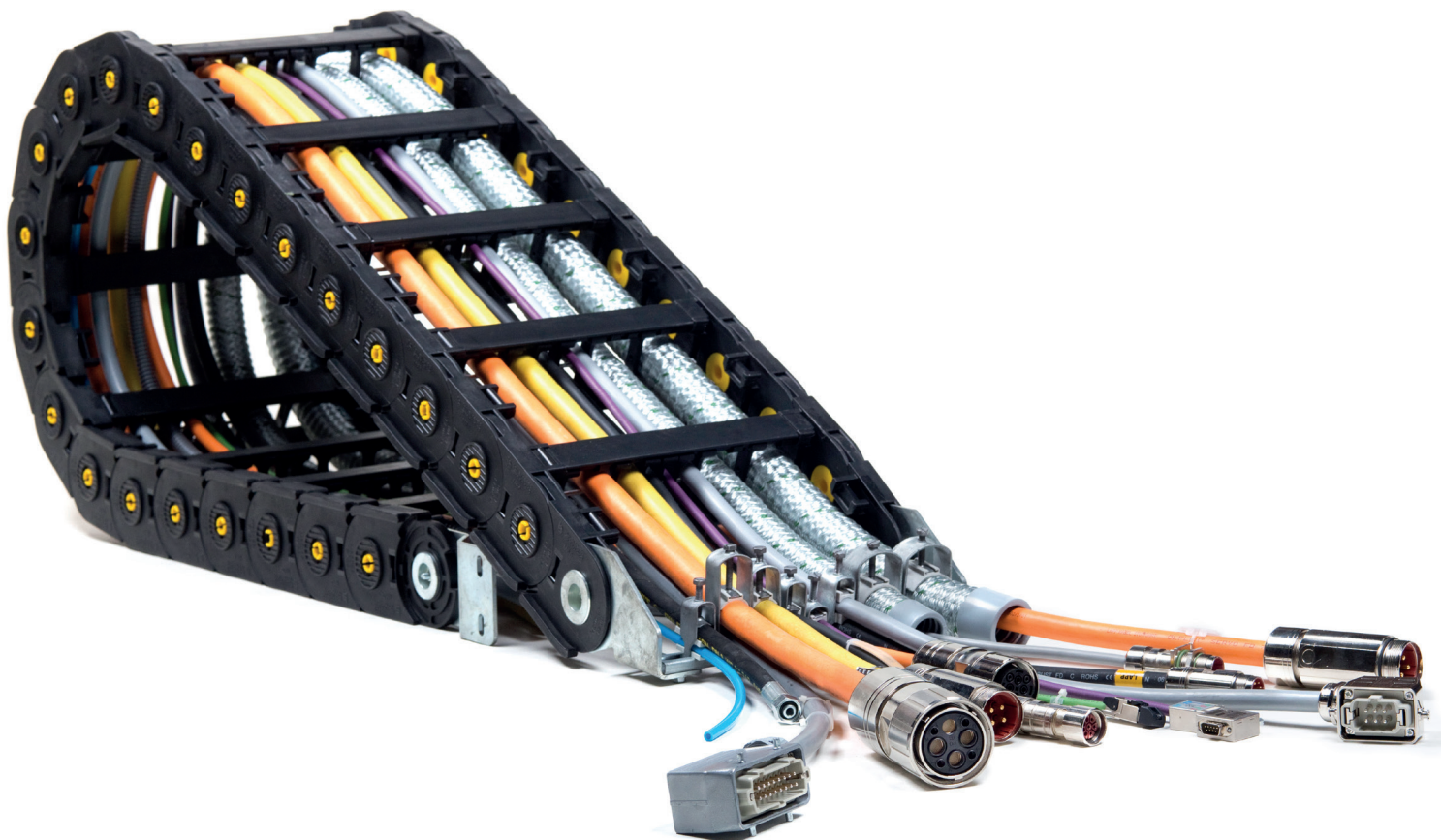
Chain Systems made by Lapp



# YOUR PARTNER FOR DRAG CHAIN EXPERTISE

Built upon our deep expertise in cable technology we have the capabilities to specify the right chain for the protection of the cable within your application – from light duty nylon chain to steel or a combination of nylon and steel:

- **Global company presence**
- **Specialist advice**
- **Engineering services**
- **Delivery ranging from individual pieces to whole series**



# ÖLFLEX® CONNECT CHAIN

When it comes to assembled cable chains, you can benefit from Lapp's know-how and many years of experience. Our specialists assure that everything runs perfectly for your application. Put your trust in reliable and highly efficient power chain solutions from a single supplier.

## We accompany you on the path to the perfect solution

- 1 Technical evaluation
- 2 Initial CAD design of the drag chain system (including cable layout)
- 3 Project management
- 4 Completion of chain system design
- 5 Installation service

## What can be included in a system chain package

- Cable chains in nylon or steel design according to your application requirements
- Highly flexible power, control, signal, and data network cables including accessories (cable lugs, connectors, etc.)
- Protective cable conduit with conduit glands
- Hydraulic hoses with fittings
- Pneumatic hoses
- Towing arms or other functional units
- CAD drawing of your chain including cable layout (optimal placement and separation of all energy lines in a chain)
- Testing including comprehensive test report
- Individual installation instructions



# CLEAR ADVANTAGES

## Reliable cutting-edge technology

Lapp prides itself on high-quality components, maximum functionality and long service life

## Guaranteed brand quality

Our systems are tested extensively and delivered with a comprehensive system guarantee

## Competent system supplier

Components, chain, and assembly are all provided from one source, streamlining the ordering process

## Increased efficiency

Fewer suppliers means a more streamlined purchasing, quality and warehousing process

## Less effort

You reduce administrative work and overhead

## Cost savings

Less inventory carrying costs of multiple components, cutting scrap costs and production inventory

## Closer to you

With multiple manufacturing sites in Europe, Asia and the Americas we can support you anywhere, globally

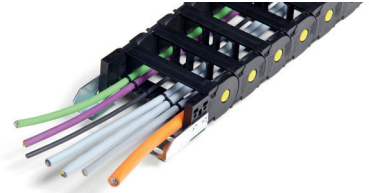


# OUR PRODUCT LINES

Three system packages – the choice is yours:

## basic chain

- Cable chains made of nylon or steel with highly flexible cables, cable protection conduits, hydraulic hoses, or pneumatic hoses **with no termination** such as connectors or fittings



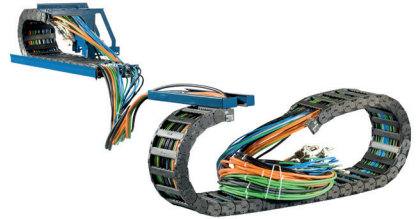
## core chain

- Cable chains made of nylon or steel with highly flexible cables, cable protection conduits, hydraulic hoses, or pneumatic hoses **including termination** (connectors, fittings)
- Complete power chain unit with system guarantee



## extended chain

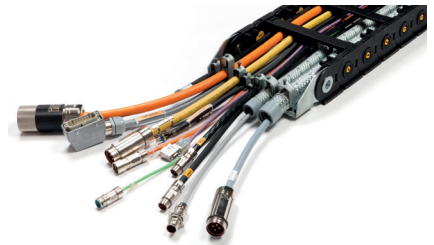
- Cable chains made of nylon or steel with highly flexible cables, cable protection conduits, hydraulic hoses, or pneumatic hoses **including termination** (connectors, fittings) **and functional units** such as towing arms or supporting structures



## Possible cable chain types

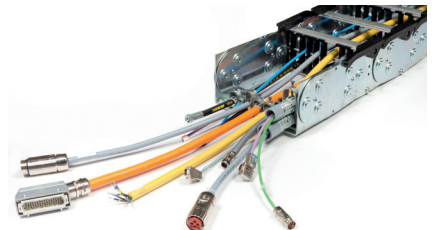
### Nylon power chains

- Cable chains made from NYLON (polyamide PA 6) for self-supporting or sliding applications or applications with circular movement
- For use in standard applications in most environment
- Open or fully closed design available



### Steel power chains

- Cable chains made of steel (galvanized steel or stainless steel) for standard self-supporting, sliding applications or applications with circular movement
- Ideal for environment where nylon cannot last (e. g. extremely low or high temperatures, hot chips, etc.)
- Open or fully closed design available



### Combined power chains

- Cable chains made of combined materials (e. g. nylon sidebands with aluminium frames or aluminium covers, etc.) for extraordinary requirements
- Combination of nylon, aluminum, or steel parts helps to withstand critical environment and to increase chain lifetime while maintaining optimal cost
- Open or fully closed design available



ÖLFLEX®

UNITRONIC®

ETHERLINE®

HITRONIC®

EPIC®

SKINTOP®

SILVYN®

FLEXIMARK®



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Our general conditions of sale  
can be downloaded from our website:  
[www.lappgroup.com/terms](http://www.lappgroup.com/terms)



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