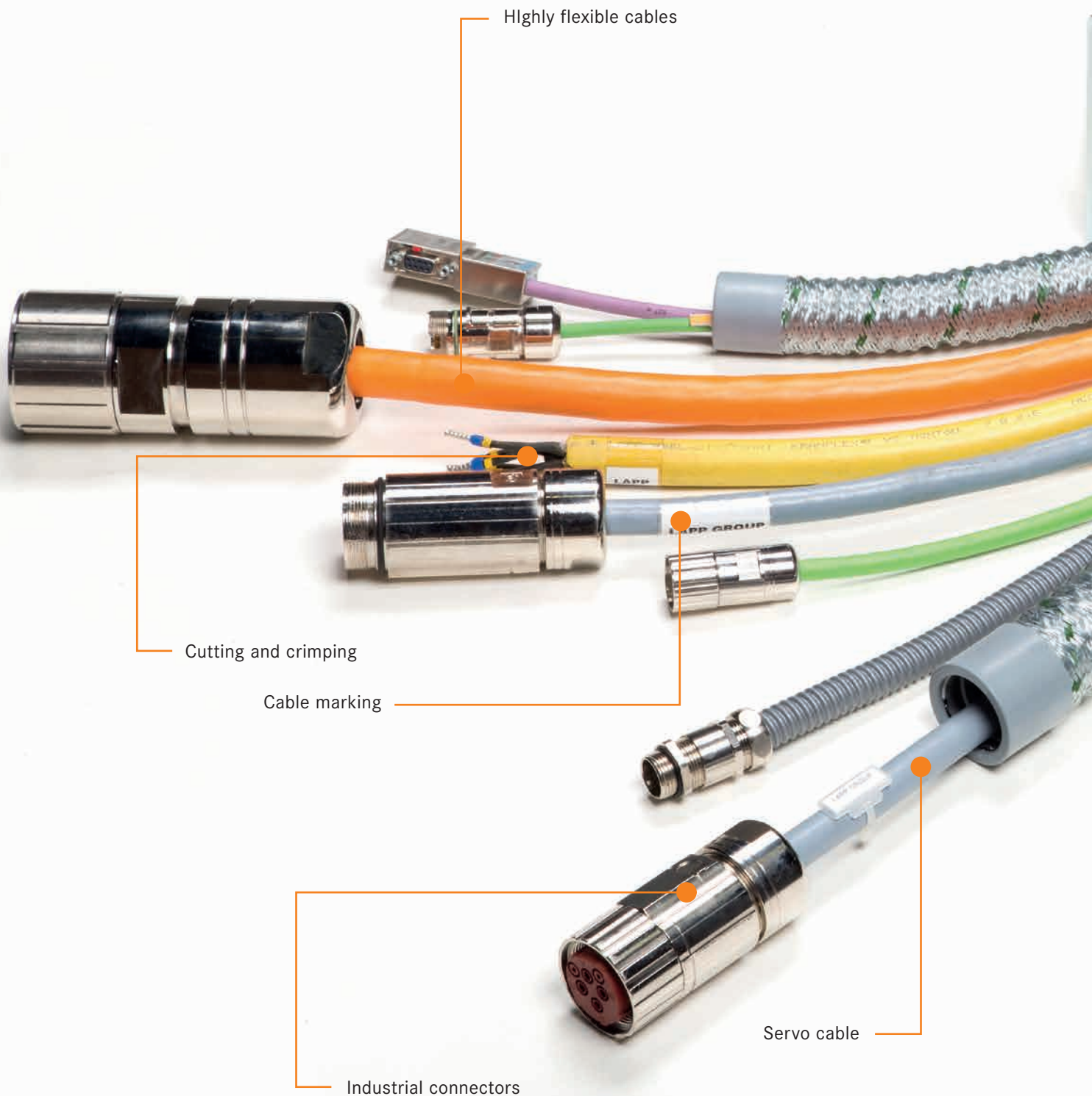


ÖLFLEX® CONNECT

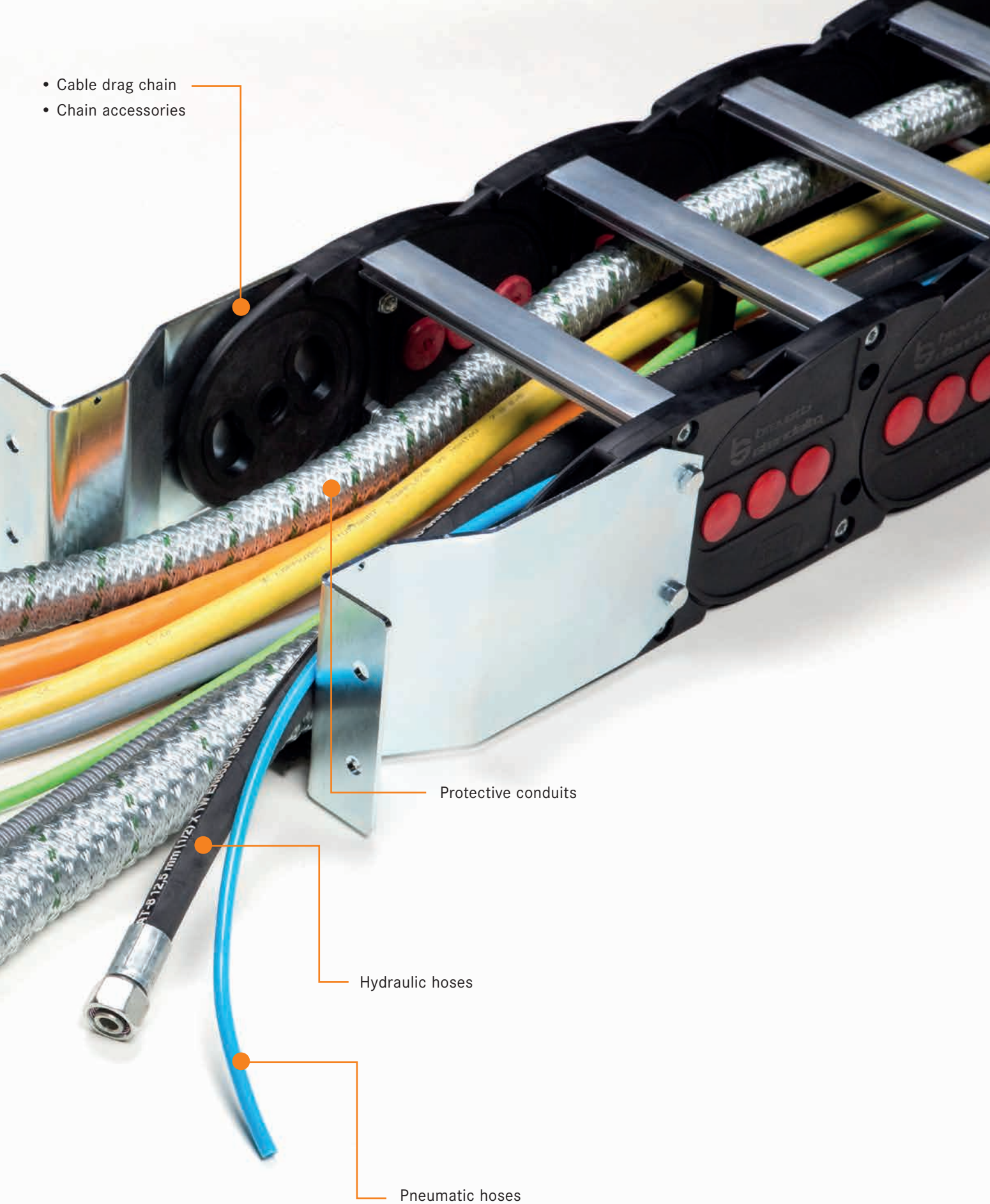
Systems Solutions made by Lapp

ÖLFLEX® CONNECT

Whether you need an assembled cable with a lug or ferrule, servo cable assemblies for moving applications or a populated drag chain, the Lapp Group has the ideal solution for your requirements. **Systems Solutions made by Lapp.**



- Cable drag chain
- Chain accessories



Protective conduits

Hydraulic hoses

Pneumatic hoses

ÖLFLEX®

UNITRONIC®

ETHERLINE®

HITRONIC®

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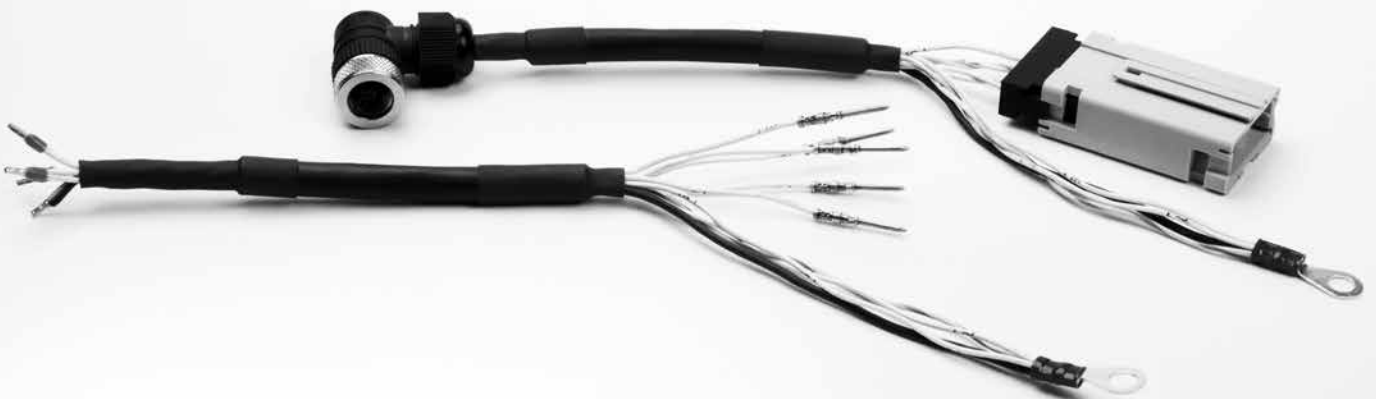
LAPP GROUP

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ÖLFLEX® CONNECT CABLES

Cable Systems made by Lapp



ÖLFLEX® CONNECT CABLES

For over 30 years, our dedicated and highly qualified team of engineers, technicians, sales and service personnel have been coming up with customised assembled cable solution – from the design phase to the creation of the prototype, right through to production and quality control.

Our comprehensive inventory of cables, connectors and accessories that we have developed, enables us to respond quickly and flexibly to your requirements – from ad-hoc to large-scale projects. We have state-of-the-art system solutions assembly sites around the world.

Cable solutions from A to Z

We produce different cables for CNC machinery, switch boxes, control cabinets and electrical assemblies. Our product range stretches from single core and multi-core cables through to EMC-shielded cables, all of which can be fitted with a wide selection of crimp contacts, connectors and housings

Our focus markets

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

PROJECT MANAGEMENT APPROACH

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

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

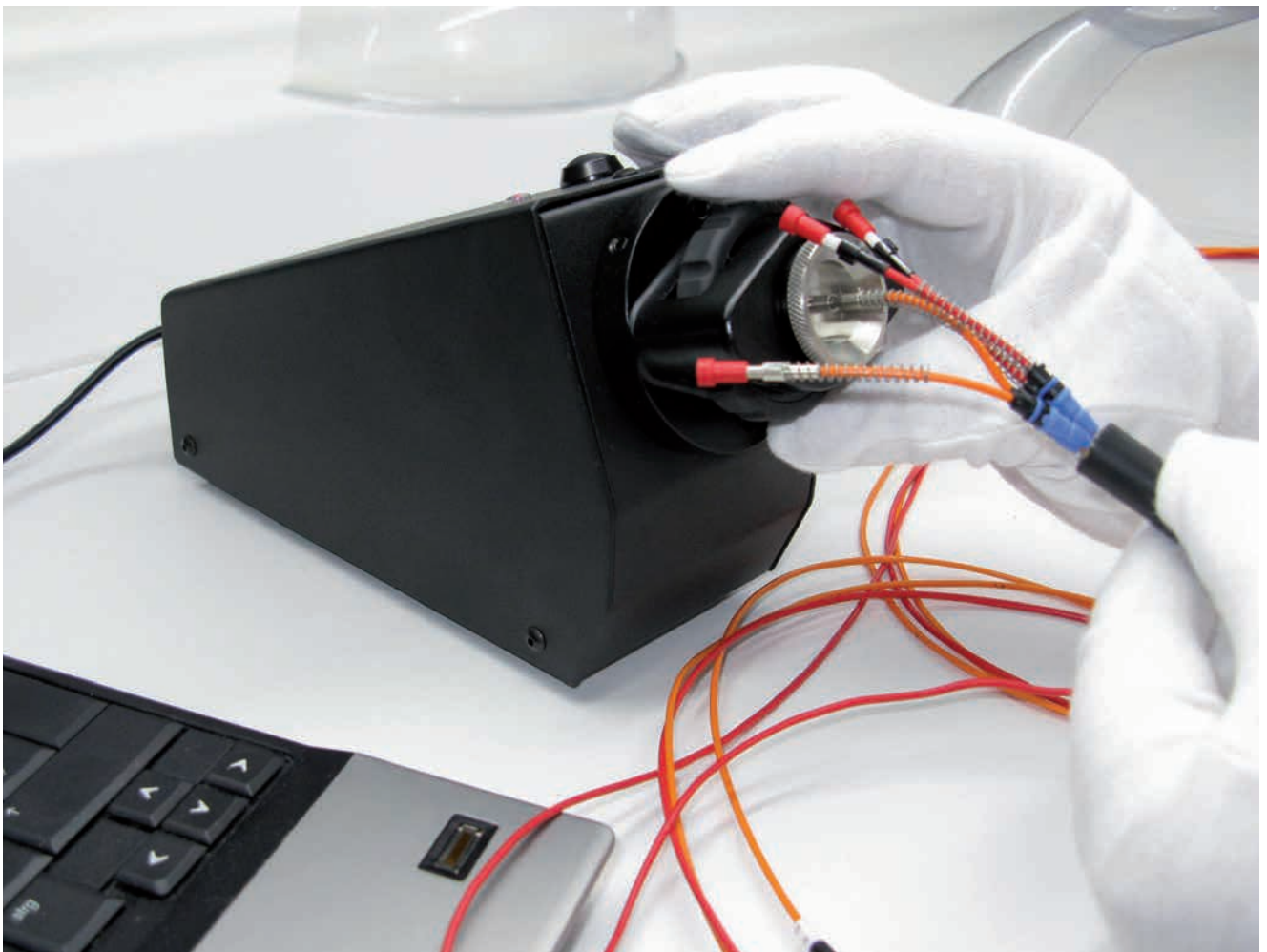


GLASS FIBRE ASSEMBLY

We are the expert system partner for sophisticated glass fibre connection technology. We have glass fibre cable harnesses in a range of standard lengths available in stock and can manufacture, test and deliver special lengths very quickly. With our range of glass fibre cables and connectors you can put together your own individual assembly according to your exact needs and requirements.

- Carefully selected components
- Continuous production and quality monitoring
- Higher connection quality increases the reliability of your application
- All glass fibre assemblies are fully tested

Our service is predominantly used by customers for whom the acquisition of an assembly tool is not worthwhile or who do not have the required expertise. In short, with the Lapp Group as your expert partner, you are free to focus on what you do best – your core business.





CLEAR BENEFITS

No capital expenditure

You will not need to invest in your own production facilities, and you can leverage our state-of-the-art equipment and tools.

Less operating expenditure

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

Reduced Inventory

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

Highest scalability

With Lapp you can immediately respond to increases in demand

Technical expertise

Make use of our experts' extensive cabling technology knowledge

Uncompromising brand quality

High quality products for maximum reliability and safety

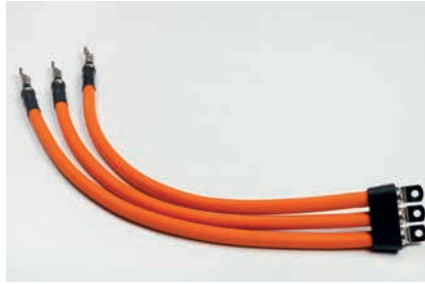
OUR RANGE OF SERVICES

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

OUR PRODUCT PORTFOLIO



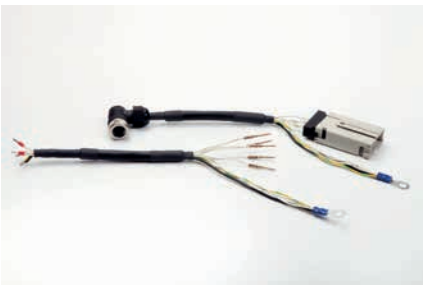
Cable harness with different connectors and end sleeves



Extruded e-mobility cabling



Cable with ring eyelets



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, we have 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 – 0.7 to 2.5 mm²
- Unextended lengths of > 2.0 m are customisable



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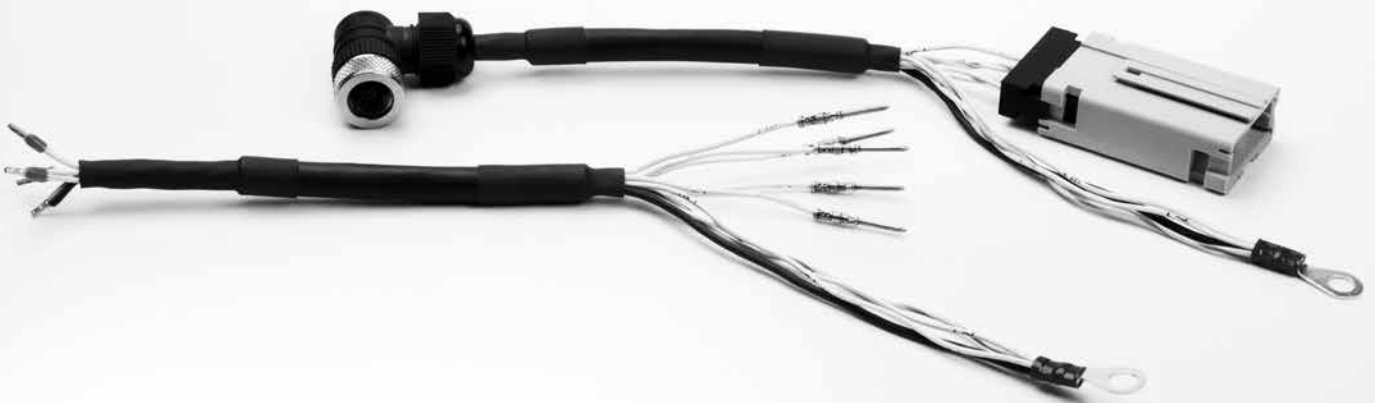
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ÖLFLEX® CONNECT SERVO

Servo Systems made by Lapp



ÖLFLEX® CONNECT SERVO

As a leading manufacturer of assembled servo cable systems, we offer all of the most popular servo standards for use in varied areas in industrial machinery and drive systems. With international manufacturing excellence, we produce the assemblies in our own facilities across the world.

Our tight knit global network of servo assembly facilities ensures high availability of stocks and a consistent quality.

Three performance classes – the choice is yours

basic line

core line

extended line

From the cost-effective **basic line** servo solution for applications free of aggressive environmental influences, to the **core line** that is specially designed for dynamic applications, right up to our highly dynamic **extended line** – the Lapp Group offers the right solution for every requirement. All of our servo cables are put through their paces at our company owned laboratory with the application site in mind – for maximum quality, reliability and safety.

Our focus markets:

- Machine tool
- Packaging machines
- Wood processing equipment
- Industrial machinery
- Material handling



OUR SERVO PROMISE

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

- Servo cables in three performance classes available
- Connectors with standard interlocking screws or rapid interlocking system
- Overmoulded versions also available
- Connectors available with RFID chips
- And importantly, with immediate stock availability



CLEAR ADVANTAGES

Uncompromising quality

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

Consistent product quality

Thanks to globally standardised and automated production

Cutting-edge technology

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

Highly competent designing

More than 50 years of technology leadership in cables and connectors

Multi brand availability

One stop shop for all major servo brands plus 8 strong Lapp 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 customised solutions quickly

Maximum flexibility

High volume, customised special products, project business – Lapp is always the right partner

Global footprint

Sales, technical support and production

Local contact persons

Local site support with specialists all around the world

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
- All necessary approvals
- 360 degree screen contact for optimum screening
- RFID option available



INDUSTRY STANDARDS

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

These include:



Discover further products in our online catalogue

ÖLFLEX® CONNECT SERVO
according to SIEMENS® standard



ÖLFLEX® CONNECT SERVO
according to INDRAMAT® standard



ÖLFLEX® CONNECT SERVO
according to LENZE®, SEW® standard



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ÖLFLEX® CONNECT CHAIN

Chain Systems made by Lapp



ÖLFLEX® CONNECT CHAIN

When it comes to assembled drag chains, you can benefit from our extensive know-how and many years of experience. Our system engineers know our components right down to the smallest detail, but also have an in-depth understanding of your application.

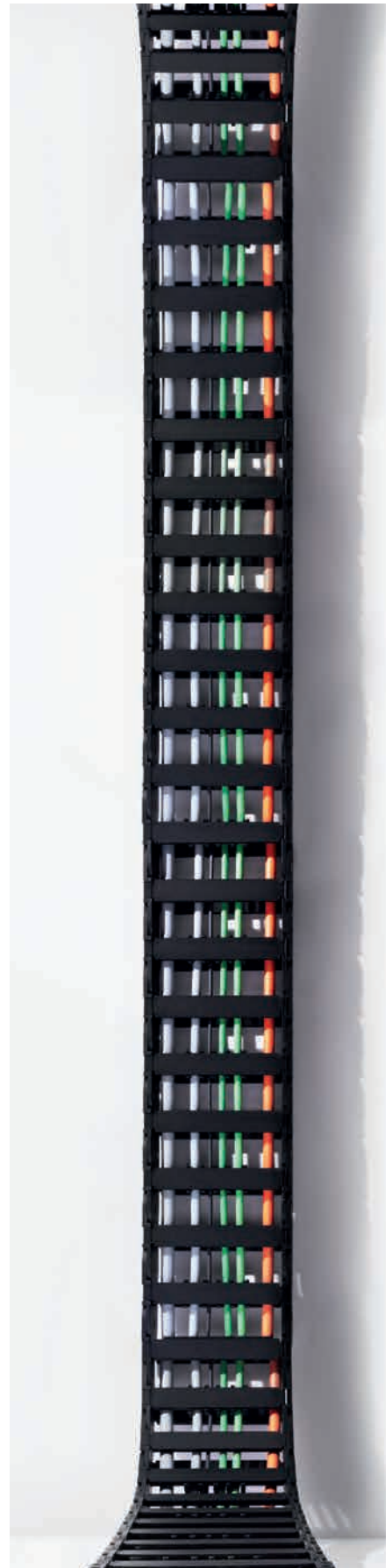
There is space in even the smallest chain – and our specialists have an exact knowledge of all product specifications and make sure that everything runs perfectly for your application. Put your trust in innovative, reliable and highly efficient power chain solutions from a single supplier.

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

What can be included in a system chain package

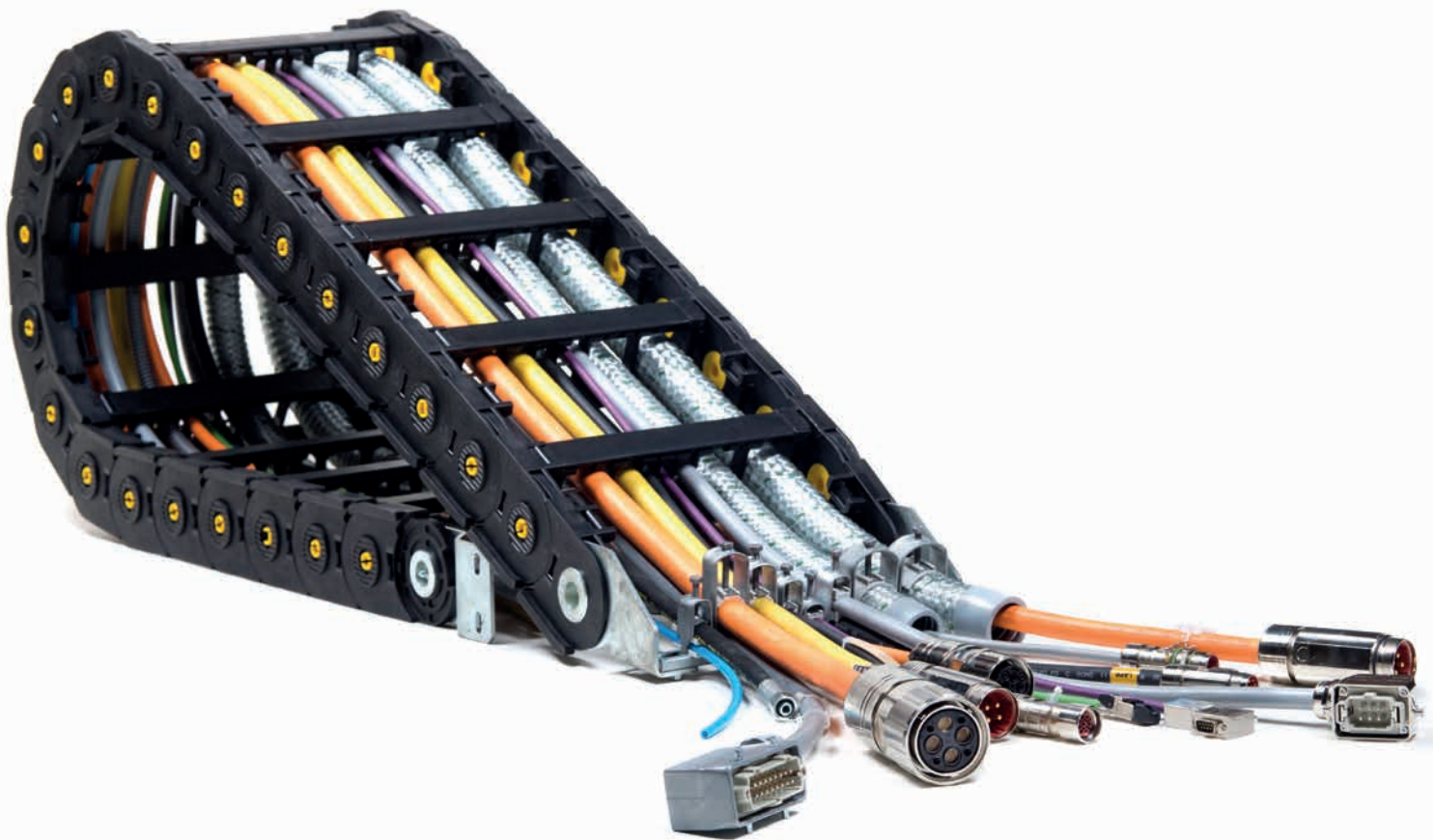
- Cable drag chains in nylon or steel design in accordance to application requirements
- Highly flexible power, control, signal and data network cables including accessories (cable lugs, connectors, etc.)
- Protective cable conduits with conduit glands
- Hydraulic hoses with fittings
- Pneumatic hoses
- 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



YOUR PARTNER FOR DRAG CHAIN EXPERTISE

Built upon our deep expertise in cable technology we have the capabilities to specify the right drag 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



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

With Lapp, you receive everything from one source

Increased efficiency

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

Less effort

You reduce administrative work and overheads

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

basic chain

- Drag 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

- Drag 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

- Drag 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 drag chain types

Nylon power chains

- Drag 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

- Drag chains made of steel (galvanised 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

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



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