YOUR MOST COMPLETE AND RELIABLE RESOURCE

FACTORY FLOOR APPLICATIONS WE SERVE

- Mechanical, Machinery
- Control Panel
- Power Control & Data
- Tray
- Robotic Cell

We provide reliable products for various processes in the automation industry – ranging from wire & cable, industrial connectors and strain relief cable glands – our substantial industry knowledge and expertise enables us to help you develop custom-tailored systems and solutions.

JJ-Lapp Cable offers a versatile and wide range of products for virtually any industrial applications. Our products have been designed to deliver results where reliability and durability are key.
THE LAPP GROUP -
THE SYSTEM SUPPLIER

Our brands are adjusted exactly to your workflow.
We have got the appropriate product for every application.

1. Circular connectors
2. Cable marking systems
3. Highly flexible servo cables
4. Industrial connectors
5. Cable systems and cable harnessing
6. Power chain systems
7. Highly flexible control cables
8. Woven cables
9. Robot cables
10. Polyamide cable glands
11. Industrial conduits
12. Spiral cables
13. Fieldbus System
14. PROFIBUS cables
15. Optical fibre cables
16. SERVO harnessings for drives
17. Stainless steel cable marking systems
AUTOMATION & NETWORK AT A GLANCE

UNITRONIC® BUS

UNITRONIC® BUS PB – PROFIBUS

UNITRONIC® BUS PB FD P FC – PROFIBUS high flexible

UNITRONIC® BUS FF

UNITRONIC® BUS PA

UNITRONIC® BUS CAN – CAN and CANopen

UNITRONIC® DeviceNet THICK

UNITRONIC® DeviceNet THIN

UNITRONIC® BUS ASI – AS-Interface

HITRONIC® Fibre Optic Cables

HITRONIC® POF DUPLEX PE

HITRONIC® HDH Mini Breakout

HITRONIC® POF DUPLEX PE-PUR

HITRONIC® HDM Reel

GOF DUPLEX Patchcord

HITRONIC® HQN Outdoor

HITRONIC® HRM-FD (Flexible)

HITRONIC® HQW Armoured Outdoor

HITRONIC® HRH Breakout

HITRONIC® POF SIMPLEX FD PE-PUR

HITRONIC® HUN Universal

HITRONIC® PCF DUPLEX FD
Photographs are not to scale and do not represent detailed images of the respective products.

**EPIC® Data PROFIBUS Connectors**

- EPIC® Data PROFIBUS Connectors 90° Screw Terminals
- EPIC® Data PROFIBUS Connectors 90° M12
- EPIC® Data PROFIBUS Connectors 90° Fast Connect
- EPIC® Rectangular & Circular Connectors
- EPIC® Data optical link module

**SKINTOP® Cable Glands**
Low Temperature Resistance and Halogen Free Cable Glands
FACTORY AUTOMATION

Lapp Group cables are used in multiple applications across the manufacturing sector from the electronic to automotive industry. Our customers include ASM, Makino and Kulicke & Soffa. From control to data cables, high flexibility or high temperature application, the reliability of our products ensures an efficient facility.

**ÖLFLEX® CLASSIC 110, 115CY**
Numbered-coded, VDE-registered oil-resistant PVC control cable
For fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load.

**ÖLFLEX® 150, 150CY WITH H05VV5-F AND UL APPROVAL**
Screened PVC control cable with small outer diameter
Apply to measurement and control technology, office machines and systems for data processing.

**ÖLFLEX® CLASSIC 810, 810CY**
Screened, PVC-insulated, numbered, PVC inner and outer sheath
Core line for ordinary duty in power chain applications.

**ÖLFLEX® FD 855P, 855CP**
Screened, TPE-insulated, numbered, TPE inner sheath, PUR outer sheath
In power chains or moving machine parts. Particularly in wet areas of machine tools and transfer lines. Harsh conditions for mechanical engineering, construction machinery, assembly and production lines.
PROCESS AUTOMATION

From pharmaceutical production to chemical processing, our cables help customers control operations and run reliable process controls. Our high quality, control cables form the basis of sophisticated systems that require speed and dependability.

**ÖLFLEX® CLASSIC 130H, 135CH**
Screened halogen-free and oil-resistant multi-standard cable
Improved fire characteristics, for use within public buildings and industrial plants.

**ÖLFLEX® CLASSIC 100, 100CY**
Colour-coded, VDE-registered oil-resistant PVC power cable
For uses in plant engineering, industrial machinery, heating and air-conditioning systems, power stations, conveyor and transport systems.

**ÖLFLEX® TRAY II**
UL Tray cable exposed run
Wide application range due to multiple approvals, suitable for open wiring, torsion resistant for drip loops.

**ÖLFLEX® SERVO 2YSLCY-JB, 2YSLCYK-JB**
EMC-optimised motor cable, low-capacitance, double screened
Connecting cable between frequency converter and motor used in paper industry, chemical industry, heavy industry.

**PRODUCT CHARACTERISTICS**
- Good chemical resistance
- Oil-resistant
- Power chain
- Torsion-resistant
- Interference signals
- Flame-retardant

- Halogen-free
- Waterproof
- Cold-resistant
- Mechanical resistance
- UV-resistant

**ÖLFLEX® CLASSIC 130H**
Screened halogen-free and oil-resistant multi-standard cable
Improved fire characteristics, for use within public buildings and industrial plants.

**ÖLFLEX® CLASSIC 135CH**
Screened halogen-free and oil-resistant multi-standard cable
Improved fire characteristics, for use within public buildings and industrial plants.

**ÖLFLEX® CLASSIC 100**
Colour-coded, VDE-registered oil-resistant PVC power cable
For uses in plant engineering, industrial machinery, heating and air-conditioning systems, power stations, conveyor and transport systems.

**ÖLFLEX® CLASSIC 100CY**
Colour-coded, VDE-registered oil-resistant PVC power cable
For uses in plant engineering, industrial machinery, heating and air-conditioning systems, power stations, conveyor and transport systems.

**ÖLFLEX® TRAY II**
UL Tray cable exposed run
Wide application range due to multiple approvals, suitable for open wiring, torsion resistant for drip loops.

**ÖLFLEX® SERVO 2YSLCY-JB**
EMC-optimised motor cable, low-capacitance, double screened
Connecting cable between frequency converter and motor used in paper industry, chemical industry, heavy industry.

**ÖLFLEX® SERVO 2YSLCYK-JB**
EMC-optimised motor cable, low-capacitance, double screened
Connecting cable between frequency converter and motor used in paper industry, chemical industry, heavy industry.
FOOD & BEVERAGE

We collaborate with many different partners throughout the food and beverage industry, Lapp Group is familiar with specific requirements of the industry to provide a comprehensive range of standard and specialised products which are proven and tested that contain a solution for almost any application.

H05RN-F, H07RN-F
Oil-resistant rubber cable for handheld and power supply devices
For heavy standard construction or permanent use outdoors with conventional mechanical stress.

ÖLFLEX® SERVO
2YSLCY-JB, 2YSLCYK-JB
EMC-optimised motor cable, low-capacitance, double screened
Connecting cable between frequency converter and motor used in paper industry, chemical industry, heavy industry.

ÖLFLEX® ROBUST FD,
H05V-K, H07V-K
European <HAR> cable type certification
In power chains or moving machine parts, flame retardant, under harsh conditions, HAR and CE approval.

ÖLFLEX® ROBUST 200, 210 & 215C
Proven all-weather control cables - screened and resistant to a wide range of chemical media
Used in machine tool building, medical technology, laundries, car washing equipment, chemical industry, composting plants, sewage works. Food and beverage industry, especially for production and processing equipment of milk and meat products.
SWITCH BOARD AND CONTROL PANEL

Lapp cables are designed to provide the optimum in performance, the products’ transmission, physical and mechanical characteristics are committed to the highest standards of product quality. Include cables with the ability to run both analog and digital services from switchboard cable to control panel, all of these cables provide enhanced crosstalk and attenuation performance.

PRODUCT CHARACTERISTICS
- Oil-resistant
- Halogen-free
- Temperature-resistant
- CE
- ÖLFLEX® HEAT 125SC GL (GERMANISCHER LLOYD) APPROVAL

MULTI STANDARD SC 1, SC 2.1, SC 2.2
UL-recognised (AWM) + CSA AWM I A/B + ÖLFLEX® HEAT 125SC. USA: UL-listed (MTW), Canada: CSA (TEW), Europe: ÖLFLEX® HEAT 125SC. For use in the most important global markets. Suitable for factory wiring, internal wiring of devices and control cabinet wiring.

ÖLFLEX® HEAT 125SC
GL (GERMANISCHER LLOYD) APPROVAL
VDE tested single cores according to EN 50525-3-41 (H05Z-K & H07Z-K) For safety in areas with high density of people. Reduction of flame propagation, density and toxicity of smoke gases in event of fire. Minimize damage to buildings and equipment caused by the formation of toxic acid fumes in fire. Certified for maritime applications.

V-90HT SC, FLEXI H SC, H07Z-K 90°C
High temperature PVC insulated cables, flexible halogen-free
Suitable for assembling cable harnesses and wiring in the switch cabinet installation where high temperature occur.

JJ-LAPP CABLE
Industrial Ethernet (IE) refers to the use of standard Ethernet protocols with rugged connectors and extended temperature switches in an industrial environment, for automation or process control. Components used in plant process areas must be designed to work in harsh environments of temperature extremes, humidity, and vibration that exceed the ranges for information technology equipment intended for installation in controlled environments.

**PRODUCT CHARACTERISTICS**
- Waterproof
- Oil-resistant
- Interference signals
- Flame-retardant
- Halogen-free
- Mechanical resistance
- Power chain
- Robust
- Mechanical and plant engineering
- UV-resistant
- Suitable for outdoor use
- Interference signals

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**UNITRONIC® LAN INDOOR & OUTDOOR**
LAN cables for indoor/outdoor use
Cat.5e, Cat.6, Cat.6A
Data cable for primary, secondary and tertiary cabling with PE outer sheath for outdoor applications.

**UNITRONIC® LAN 1000 S/FTP CAT.7, LAN 1500 S/FTP CAT.7A**
LAN cables for structured building cabling according to EN 50173 and ISO/IEC 11801
Mainly used where the terminal density is very high, e.g. for wiring office, administration and development buildings in the tertiary area (floor wiring).

**ETHERLINE® PN FLEX**
LAN cables for Industrial Ethernet such as PROFINET
Good flexibility - easy installation with tight space requirements: LAN connections, control cabinet wiring.

**ETHERLINE® TORSION CAT.5, CAT.6A, CAT.5e FLEX, CAT.6A FLEX**
Industrial Ethernet cables for high flexible use, Halogen Free or PUR (AWM-approval) outer sheath material Suitable for EtherCAT and EtherNet/IP, PROFINET applications type A and power chain applications.
Commonly used in automobiles, as well as industrial machinery. Cable harnesses provide several advantages over loose wires and cables. Lapp Group wires and cables can be better secured against the adverse effects of vibrations, abrasions, and moisture. By constricting the wires into a non-flexing bundle, usage of space is optimized.

**PRODUCT CHARACTERISTICS**
- Good chemical resistance
- Oil-resistant
- Power chain
- Torsion-resistant
- Interference signals
- Halogen-free
- Cold-resistant
- Mechanical resistance
- Wind Energy

**UNITRONIC® LiVCY, LiYY**
Screened data transmission cable with colour code according to DIN 47100
Screened control and signal cables with small dimensions are suitable for use in computer systems, instrumentation technology and electronic control equipment.

**UNITRONIC® FD, FD CY**
Screened highly flexible data transmission cable with PVC outer sheath for power chain use
Automated production processes require data transmission cables that offer high flexibility and durability. Suitable for use in measuring, control and regulating circuits. Assembly lines, production lines, in all kinds of machines.

**UNITRONIC® FD P PLUS, FD CP PLUS, FD CP(TP) PLUS**
Screened highly flexible data transmission cable with PUR outer sheath and twisted pairs - UL/CSA-listed
Wide temperature range for applications in harsh climatic environments. Ideal for export-oriented machinery and equipment manufacturers. Optimized cable construction for power chain use.
Lapp has substantial expertise at its disposal, as well as more than 25 years’ experience in working with customers to develop and bring to fruition solutions in the field of robot applications. Lapp Group cables therefore develops robotic cables and system solutions in close cooperation with the customer, always taking into account details such as cross section, movement and environment in preparing the design. The customer can therefore be confident that the solution is the right one and the danger of costly downtimes of production equipment are reduced to a minimum.

**ÖLFLEX® SERVO FD 796CP**
High-end servo cable, screened
In power chains or moving machine parts. For use in assembling & pick and place machinery.

**ÖLFLEX® ROBOT 900P, ROBOT 900DP, ROBOT F1, ROBOT F1 (C)**
Screened TPE-PUR robot cable for flexing, bending and torsion loads
High tech robot cable, Multi-axis articulated robots. Used in automated handling equipment, power chains or moving machine parts. Protection against water and dirt. With mechanical resistance, oil-resistant, power chain, torsion-resistant and UV-resistant approval.

**HITRONIC® TORSION**
Fiber optic cable - Torsion
Fiber optic cable designed to withstand high torsion in the windmill drip loop. Suitable for industrial environments: indoor and outdoor.
HIGHLY FLEXIBLE CHAIN CABLES

A range of highly flexible chain cables for constant moving applications. Lapp Cable offers an extensive range of cables suitable to high flexing repeat motion in both single motion axis movement and robot chains suitable to twisting and torsion.

PRODUCT CHARACTERISTICS

- Good chemical resistance
- Oil-resistant
- Power chain
- Torsion-resistant
- Interference signals
- Cold-resistant
- Mechanical resistance
- Wind Energy
- UV-resistant
- Optimum strain relief
- Halogen-free
- Flame-retardant
- Mechanical and Plant Engineering
- Automation
- Low weight

ÖLFLEX® PETRO FD 865CP

Screened, TPE-insulated, numbered, TPE inner and special polymer outer sheath

Flexing cables with DNV approval for power chain in onshore and offshore applications.

ÖLFLEX® FD 855P, 855CP

Screened, TPE-insulated, numbered, TPE inner sheath, PUR outer sheath

The materials used are halogen-free and consequently environment-friendly. The cables can be used without restriction in the most modern automated manufacturing systems, inside and outside, and meet the highest service life requirements.

HITRONIC® POF FD PE-PUR, PCF DUPLEX FD, HRM-FD

Fiber Optic Cable for Cable Chains

Fiber Optic Cables designed for use in power chains, highly flexible application. Flame-retardant and halogen-free.
MATERIAL HANDLING

Every link in the process chain must operate reliably as the weakest link determines the reliability of the whole system. Lapp offers a comprehensive range of cables for lifting and handling equipment designed to be used as hawsers, reel cables or as towing cables on lifting gear and transport, conveyor systems. We also supply lift, elevator cables for different installation lengths and flat cables, including for cable trailer systems.

ÖLFLEX® CRANE 2S
VDE-registered oil-resistant, flexible at cold temperatures PVC cables with external steel supporting elements
Non-continuously recurring movement without tensile load.

ÖLFLEX® CRANE NSHTOU & CRANE VS (N)SHTOU
Reelable cables for low and high mechanical stress
Can be used as hawser, drum and towing cable as well as for energy supply chains. For use in hoists, transport and conveyor systems. Reeling and un-reeling during operation without fixing.

ÖLFLEX® CRANE F & LIFT F
Weather-resistant flat rubber cables. Flexible at cold temperatures, PVC flat cables
Systems or for flexible use in cable trolley systems. Sewage treatment plants, steelworks and high rack facilities.

SKINTOP® ST-M & STR-M
Metric plastic cable glands
Used in areas where cables and wires need to be safely inserted into housings. Machine and equipment manufacturing. Photovoltaic.

PRODUCT CHARACTERISTICS
- Good chemical resistance
- Oil-resistant
- Optimum strain relief
- Assembly time
- Suitable for outdoor use
- Maximum vibration protection
- Cold-resistant
- Wide clamping range
- Variety of approval certifications

OLFLEX® CRANE 2S
ÖLFLEX® CRANE NSHTOU
ÖLFLEX® CRANE VS (N)SHTOU
ÖLFLEX® CRANE F
LIFT F
SKINTOP® ST-M
STR-M
MECHANICAL AND PLANT ENGINEERING

Cable solutions for mechanical and plant engineering have formed the cornerstone of our company since the very beginning. Lapp offers a wide range of cables that are specifically designed and rated for tray applications and offer unrivaled reliability, flexibility and durability. Due to their extreme flexibility and easier routing, Lapp tray cables are ideal for new plant development and expansions.

PRODUCT CHARACTERISTICS

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<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tr>
<td>Good chemical resistance</td>
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ÖLFLEX® CLASSIC 100, 100CY

Colour-coded, VDE-registered oil-resistant PVC power cable
For uses in plant engineering, industrial machinery, heating and air-conditioning systems, power stations, conveyor and transport systems.

ÖLFLEX® CLASSIC 110, 110CY, 115CY

Numbered-coded, VDE-registered oil-resistant PVC control cable
For fixed installation as well as occasional flexing at free, non continuously recurring movement without tensile load.

ÖLFLEX® CLASSIC 130H, 135CH

Screened halogen-free and oil-resistant multi-standard cable
Improved fire characteristics, for use within public buildings and industrial plants.

H07RN-F

Oil-resistant rubber cable for handheld and power supply devices
For heavy standard construction or permanent use outdoors with conventional mechanical stress.
Today, Lapp cables have earned the stamp of approval from a variety of international accreditation bodies, as seen by the various certifications and trademark approvals they carry. This is a statement of quality and an assurance of performance that we promise to deliver to you.
As one of the world’s leading provider of cables and cable accessories, Lapp Group’s family of cable brands has earned itself a sterling reputation for quality, precision and reliability. Through JJ-Lapp Cable, these premier cable solutions are now available and tailored to the specific needs of the ASEAN market.