

Your customized  
**cabling solutions**



**LAPP MULLER**



## **LAPP GROUP in the world**

Lapp group is one of the foremost suppliers of cables and accessories worldwide. In 1957, Oscar Lapp, founder of the company, developed ÖLFLEX®, the first industrially manufactured control cable in the world.

Today, some **2600 employees** in 50 companies around the world contribute their dedication, knowledge and ideas to the Lapp Group daily.

Lapp group has about **20 production sites** worldwide in America, Europe and Asia.



## **LAPP MULLER**

Founded in 1939 by Mr Jean MULLER, the Muller et Landais company used to make electric cables for the construction industry.

In 2003, Muller became LAPP MULLER SAS when it became part of Lapp Group.

The firm is Lapp Group's point of reference for cables integrating technology; LAPP MULLER is your partner for all of customized cable systems and short lengths integrating electrical, pneumatic, optical, hydraulic or support functions.....





## FLEXIBILITY - REACTIVITY



LAPP MULLER's size allows us to provide top service by offering :

- tailor made design of your cable or your system
- production runs for short lengths from 100m to semi-industrial production
- a very short lead time, between 3 and 6 weeks

## INNOVATIONS - DEVELOPMENT

LAPP MULLER's team of engineers is highly competent in its mastery of raw materials and manufacturing processes, with 25 years experience in several fields of activity and is the ideal partner for the development of your projects.

Our test centre is perfectly suited to your requirements.



## QUALITY

Since 1996, the accreditation and the renewal of our ISO 9001 certification and other approvals show our will to constantly improve and innovate.

As well as the quality of our products, LAPP MULLER wants to preserve the environment.







## MAN-MADE MACHINES

LAPP MULLER is the partner of manufacturers of robots, gantries and machine tools for which it designs and supplies power lines, power/control, servomotors and safety control systems.



**Bending**  
**Bending/Torsion combined**  
**Oils**  
**Paint, Solvents**

### **ROBOCABLES® F3**

Miniaturized cable for drag chain

### **ROBOCABLES® F1X**

Miniaturized cable for very long and high speed drag chain

### **ROBOCABLES® F1**

Cables for robots using bending and torsion combined up to  $\pm 360^\circ/\text{m}$

### **ROBOCABLES® F1 GOLD**

Cables for robots using bending and torsion combined up to  $\pm 720^\circ/\text{m}$

### **ROBOCABLES® UL**

All full range of ROBOCABLES® with UL approval

### **ROBOCABLES® BUS**

Cables suitable to all existing bus protocols

### **ROBOCABLES® CLEAN ROOM**

Complete range of ROBOCABLES® for use in Clean Rooms, with DIN ISO 14644-1 certificate

### **HYBRID UMBILICALS**

Composite robotic cable interface with electric, hydraulic, pneumatic and optic functions

### **PRE-EQUIPPED CORDS AND CABLES**

### **TECHNICAL ASSISTANCE**

For electrification and application cables

These companies trust us :

STAUBLI, COMAU, KUKA, ABB, PEUGEOT CITROEN, NELSON, SAMSUNG, FIAT, DURR, MICHELIN, ROBOTEC,







## **NUCLEAR INDUSTRY**

Present for more than 30 years in the nuclear field, and particularly in non-destructive control engineering and handling of irradiated fuel and waste, LAPP MULLER meets the requirements of national installers, mechanics and electricians, design offices, service providers and engineers, by offering power, control and signal cables.



**Radiation Resistance**  
**Fire retardant**  
**Halogen free**  
**Decontaminated sheath (PMUC)**  
**Flexion**

### **FR CABLES** fire retardant.

Power cables (type 1 ), Control and Command Cables (CNB 500, CNB 1000, CB 500, CB 1000), multipairs (CPB 500 ).

### **FR ZH CABLES** fire retardant, halogen free.

Power cables (type 1 ZH), Control and Command Cables (CNB 500 ZH, CNB 1000 ZH, CB 500 ZH, CB 1000 ZH), multipairs (CPB 500 ZH )

### **FR ZH ROBOCABLES®** fire retardant, halogen free.

Cables for moving applications, drag chains, robots, gantries, drum reeling systems, and other mobile systems

### **HIGH LEVEL RADIATION RESISTANT CABLES**

Type 10, radiation resistant to 200 Mrads  
 MULRAD® 2, radiation resistant to 500Mrads.

### **FR AND FR ZH DATA CABLES** fire retardant, halogen free.

Coaxials for video, Cables for Bus systems and data processing links.

### **FR ZH FLAT CABLES** fire retardant, halogen free.

Cables for moving bridge festoons or special moving machines.

### **CABLES WHICH CAN BE DECONTAMINATED**

Cables for inspection robots in nuclear tanks, nuclear pools and in coolant channels...

TEC, AREVA, CEA, CERN, INTERCONTROLE, CYBERIA, FRAMATOME, CEGELEC, DCN, IFREMER, THALES UNDERWATER SYS







## **MARINE & UNDERWATER**

LAPP MULLER works with marine and underwater building repair companies (welding, cutting, etc...), oceanographic research centres and offshore institutes, manufacturers of underwater acoustic instruments and engineering companies, etc... for the design and manufacture of composite electrical or optical cables.



### **Extended Immersion Sever Mechanical Constraints Watertightness Buoyancy**

#### **DIVING UMBILICALS**

(power, signal, video, air supply )

Diving bells, divers surface demand umbilicals

#### **UNDERWATER UMBILICALS**

(electrical, optical, hydraulic and mechanical functions )

Underwater operations, offshore work and research

#### **FLOATING CABLES**

ROV Tethers, sonar cables

#### **ARMoured CABLES**

ROV Main Lift Cables, Tow Cables, VLF buoy cables with keel

#### **INSTRUMENTATION CABLES**

Seismic and oceanographic

#### **SHIP CABLES – Surface vessels and Submarines**

Power and signal cables for naval defence and maritime industries

#### **HIGH TENACITY FIBER CABLES**

Rigging cables, mooring lines, buoy moorings

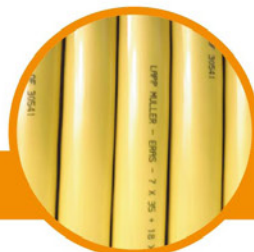
#### **TERMINATIONS**

Design, Manufacturing and Mounting stainless steel, titanium or other special alloy terminations

#### **CONNECTORS MOUNTING**

Supply and Mounting underwater connectors

SYSTEMS, ECA, COMEX, SINGLE BUOY MOORINGS, DELACHAUX, CAVOTECH, MARSEILLE SEAPORT, SOLLAC, PARIS AIRPORT







## MISCELLANEOUS

### HANDLING

For applications with high mechanical constraints, LAPP MULLER offers a large range of strong cables with high resistance to severe climatic and chemical environments for manufacturers of drum reels and gantry cranes, for steel metallurgy, harbours and airports.

#### **MULARFLEX®**

Complete range of reeling cables (with optical fibers, bus conductors...) which resist very high mechanical constraints as traction, weight, compression

#### **CABLES 400 HZ**

Multipurpose, very flexible cables, with a high resistance to abrasion, to skydrol, to kerosene and to other products used in airport traffic areas

#### **FLAT CABLES**

Control and power cables for gantry cranes in hostile environments

### MOUNTAINEERING

Safety cables for cableways, ski-lifts and cable-cars in ski resorts, consisting of a steel support and a communication cable to provide links between the arrival and departure points (phone, video supervision)

### ANTI-ESCAPE

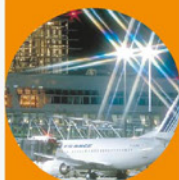
Aramid fiber cables used in prison protection systems against helicopter escapes.

### INSPECTION

Push and Pull cables for the inspection and repair of sewage systems.

### MEDICAL

Umbilicals for scans or other medical devices.



AIRPORT , DOPPEL MAYER, PRISON OF CLERVAUX, BRANDENBURGER GmbH....



**LAPP MULLER**





**LAPP MULLER**

A Lapp Group Company

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