

LEONI at a glance
**We supply
tomorrow's markets**



Automotive & Commercial Vehicles

Automotive & Commercial Vehicles

Industry & Healthcare

Conductors & Copper Solutions

Electrical Appliances

Communication & Infrastructure

The Quality Connection

LEONI

Find out more:
LEONI.com



A tradition of progress.



When it comes to cables, LEONI is unbeatable. Established more than 90 years ago, the company is today one of the Europe's leading providers of wires and wiring systems. About 56,000 employees throughout the world develop, manufacture and market mainly tailor-made products and solutions for industrial applications in the Automotive & Commercial Vehicles, Industry & Healthcare, Communication & Infrastructure, Electrical Appliances, and Conductors & Copper Solutions sectors.

The leading position that LEONI enjoys in many of its markets worldwide is the result of a consistent as well as successful product policy over many decades, which traditionally looks at future growth industries. It is based both on the expansion of LEONI's own resources and the acquisition of expertise and technology through the acquisition and integration of other companies.

LEONI now has a unique product, technology and service portfolio that covers almost every area of cable technology. For whatever the cable application in the various industries is needed, you can be sure that LEONI will have the right solution.

Tomorrow's markets: global trends.



New trends that significantly influence future social developments have a major impact on people's lives.

Mobility, population growth & demographic change, urbanisation, globalisation, environmental awareness & a shortage of resources, as well as industrialisation & automation, are set to play a very important role.

They also represent the basis for LEONI's future activities. These trends provide the inspiration for us to develop products and innovations, which we deploy in the interest of technological development and for the benefit of our customers.



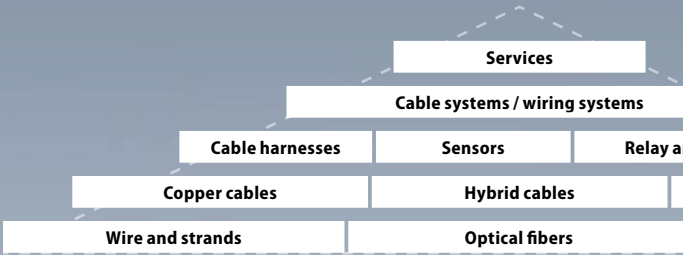
Thinking in *green* technologies.



The market for environmental technologies is developing into a key stimulus for growth throughout the world. LEONI is increasing its share of "green" products and solutions on a continuous basis. We already offer our customers a wide range of ecologically rational services:

- Use of **environmentally-compatible materials** in wire and cable production, e.g. LEONI Histral cadmium-free copper alloy or **halogen-free insulation materials**.
- Wires, cables and special cables for **environmentally-friendly technologies**.
- Supplying of cable harnesses with **lead-free cables** for the international automotive industry. Extremely lightweight wires and weight-optimized wiring systems are LEONI's contribution to **more environmentally-compatible individual mobility and reduced emissions**.
- As a system partner for car manufacturers with alternative drive technologies, our products range from **high-voltage cables and wiring system and battery cabling and charging cables** for electric vehicles to **high-voltage distributor boxes and pre-assembled cable solutions**.

Our range of services...

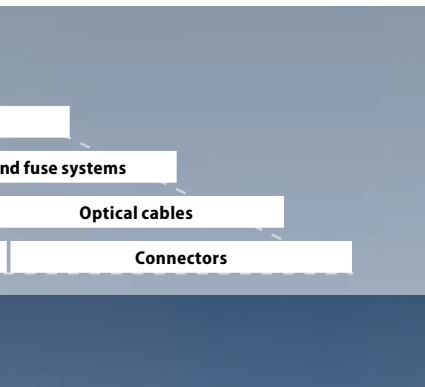


These days discerning customers demand tailor-made cable solutions and complete systems in which all components are perfectly coordinated – from the cable to the required connecting and mounting elements. In addition, more and more development and cable work is required from the cable manufacturer, so as to ensure the best possible functionality, quality and cost efficiency.

This not only demands special cable assembly expertise from the cable manufacturers, but also a comprehensive understanding of the conditions for use and technical context on the user side, so that the best possible product solutions are created. Decades of experience and intensive development work have provided LEONI with precisely this expertise.

In addition, the company has a value chain that is unique within the industry, ranging from single wires and optical fibers and cables to wiring systems and services that encompass valuable synergies.

... for your market



As diverse as the range of products and services, so varied are the markets and sectors that LEONI supplies.

We mainly serve the five markets of the future:

Automotive & Commercial Vehicles

starting on page 8



Industry & Healthcare

starting on page 10



Communication & Infrastructure

starting on page 12



Electrical Appliances

starting on page 14



Conductors & Copper Solutions

starting on page 16



Markets & Branches

Automotive & Commercial Vehicles



LEONI is a partner to the automotive, commercial vehicle and supplier industries, operating as a developer and system supplier for conventional wiring systems and cable harnesses for vehicles with alternative drive concepts. Our portfolio also encompasses the development and production of standard and special cables.

Wiring systems

LEONI is the market leader in Europe and one of the world's leading providers of wiring systems. As well as the development and production of cable harnesses, our range of services also includes the manufacture of our own components and specific connectors.

We are at our customer's side throughout the development process. From pre-development, serial development and prototyping to serial production and 100 percent reliable quality assurance, from cable design to complete system architecture.

LEONI has a wealth of innovative products and solutions at its disposal for the worldwide commercial vehicles market. We develop individual components and produce a broad portfolio, ranging from customer-specific cable harnesses to complete wiring systems solutions.



(1) High-voltage cable set

(2) Automotive cables

(3) Fuse box



Automotive cables

As one of the world's market leaders for single-core automotive cables, we can support you with an extensive product range with a host of different OEM and Tier1 releases and a global sales, development and production network.

Our specialists stay in close contact with automobile manufacturers, Tier1 suppliers and connector producers and also take an active role in specialist workgroups in international cable standards authorities. Internally developed and produced materials designed especially for the requirements of the automotive industry, as well as the latest production processes, round off our range of services.

An extract from our portfolio:

- Single-core/multi-core, shielded/unshielded cables
- Cables with alternative conductor materials instead of copper
- Data and coaxial cables

Markets & Branches

Industry & Healthcare



Our range of services in the industrial sector offers solutions for almost every branch of industry, such as automation and drives, mechanical and plant engineering, robotics and special vehicles. We have also successfully specialised in optical fiber technology.

Our products for industry span across the entire value chain of our company. With its comprehensive offering, LEONI provides the whole breadth of solutions for industrial applications; we look after our customers with everything from cables and cable assemblies to complex cables and through to subsystems and services as well as maintenance work. We are thus your partner, offering everything from a single source.

In the fast-growing healthcare segment we supply the world's leading manufacturers of medical devices and apparatus as well as patient monitoring systems. We offer interconnected products and services ranging from engineering to design and production of the cables, as well as for cable assembly.

- (1) Pre-assembled optical cable for medical technology
- (2) Hybrid cable with combined control, data and power wires
- (3) Cable system solution for measurement and control technology



As a design partner, we develop special cables, cable and sub systems for medical technology applications for our customers and support them with dedicated service from the development to the selection of suitable raw materials, components and processes through to mass production.

Constantly increasing rates of data on the internet are driving growth for computer centres. Protocols such as Ethernet and Infiniband are being developed for higher data rates. For manufacturers of active devices in the area of high-performance computing (HPC) as well as storage area networks (SAN), servers and the area of network switching we develop and produce high-speed data cables and complete cable systems with passive and active transmission elements. LEONI is showing new solution possibilities here.

Markets & Branches

Communication & Infrastructure



As a leading European cable manufacturer for communication and infrastructural projects, LEONI offers complete solutions that cater to all requirements in the following areas: communication networks, transport routes and building infrastructure, large-scale projects, energy generation and distribution, solar and wind technology, crosslinking, polymer modification and sterilisation.

In the area of data communication, our products range from structured cabling for offices and industrial complexes to data centre infrastructure. In the area of communication networks, LEONI offers its customers an integrated, future-proof range of products and services in the areas of mobile and fixed network phone technology and domestic wiring applications.

In the market for infrastructural applications we offer installation and safety cables with and without system integrity according to international standards for public buildings, structural and civil engineering and transport routes.

For the equipping of large-scale industrial projects (such as oil and gas refineries) our product portfolio includes a wide range of standardised and application-specific instrumentation cables. We also offer an equally high quality, extensive range of products

- (1) Building wiring
- (2) Airport supply cables
- (3) Railcar/jumper systems



for energy generation and distribution. When it comes to solar cables, we see ourselves as the world's leading provider of products that meet all international standards (TÜV and UL).

In the area of transport engineering, our innovative solutions for railway transport and naval and maritime engineering meet the highest standards. Our products are also key in airport infrastructure.

We are also among the leading providers in Europe in the areas of crosslinking and treatment with electron and gamma rays.

Our added value for your market ranges from the development and production of copper cables and optical fibers and data cables and connection components to the design and planning of complete systems and services.

Markets & Branches

Electrical Appliances



LEONI is one of the world's largest providers in the areas of the development, manufacture and sale of cables, power cords and installation-ready cable harnesses for the lighting industry, building wiring systems and electrical appliances of all kinds.

Benefit from the development expertise of our experienced product managers: as well as manufacturing products in line with the technical specifications provided by our customers, we can also draw up the right solution for your application together with you and advise you on questions of further processing and product optimisation.

This is also reflected in the composition of our product portfolio: as well as standardised products tested and approved according to national and international standards, customer-specific solutions also account for a major part of our product range.

The development of halogen-free cables demonstrates that LEONI has its finger on the pulse and anticipates future developments in the domestic appliance branch.

- (1) Halogen-free connector and socket
- (2) Multi-core cables according to UL/CSA
- (3) Cable harness for domestic appliances



Reliable service, compliance with all safety standards and high quality worldwide are all matters that we take for granted.

Our portfolio at a glance:

Assembly

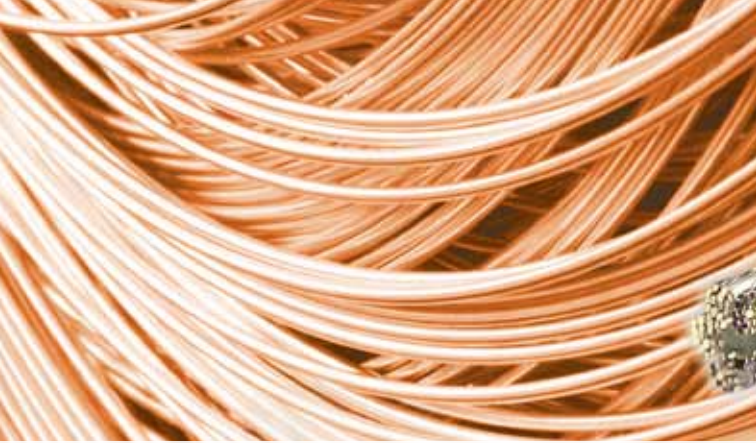
- Customer-specific assembly
- Pre-assembled wires
- Cable harnesses and internal wiring

Products sold in continuous lengths

- Single-core and multi-core cables according to VDE HAR, UL and CSA in both round and flat versions
- High-temperature cables for the lighting industry
- Rubber-insulated cables
- Halogen-free cables

Markets & Branches

Conductors & Copper Solutions



LEONI is the world's leading wire manufacturer for top quality conductors and strands, used in all areas of electrical engineering.

Areas of application

- Automotive Industry
- Electrical / Electronics Industry
- Telecommunications
- Solar Industry
- Energy Technology
- Computing
- Medical technology
- High-frequency technology
- Military technology
- Air and space travel

Our locations throughout the world provide us with an international production network in which to manufacture wires and strands from copper, galvanically plated copper and copper alloys.

Offering technical expertise, a high level of innovation and top-class personal advice, we develop special solutions that are specially tailored to the specific needs of our customers.

- (1) Flat ribbon wire – cell and string connectors for photovoltaic modules
- (2) Smooth bunch strand
- (3) Lyonese ware



Our specialisation in the area of electrical conductors gives rise to strands in both concentric and semi-concentric configurations in perfectly round designs, as well as miniaturisation through the use of high-strength alloys. This enables us to offer our customers in the cable sector major advantages through savings on insulation materials and weight.

We also produce highly flexible flat copper ribbons, woven sheaths, round ropes and braids. This product range is rounded off by our flat ribbon wire for the solar industry.

Despite all these modern, high-performance materials, we have not forgotten our origins. We still produce traditional "Lyonese ware", such as gold and silver-plated spun threads, bouillon and pearl wires for sumptuous embroidery and woven fabrics.

Success factor proximity to the customer

Proximity to the customer is particularly important to us in everything we do. From this aspect, LEONI has over the past decades grown with extraordinary success.

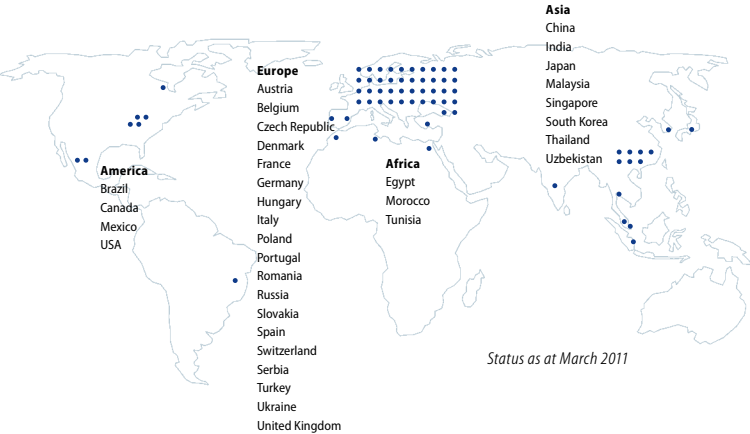
With our 85 subsidiaries and about 95 production plants, we are not only geographically close to the customer and therefore represented in all of the world's key industrial regions.

We also attach the highest importance to close partnership-like collaboration that, especially with our customised products, starts at a very early stage of development and thereby makes a crucial contribution to optimal product solutions.



LEONI

Your worldwide partner



LEONI is a global supplier of wires, optical fibers and cable systems, as well as associated services for the automotive sector and other industries. The Group achieves excellent results on the basis of effective strategy planning and offers quality of the highest technical standard in all areas.

We implement our "Quality Connection" motto by always developing the best quality solution for our customers and by seeking to provide the best possible service in every project we work on. We supply products and solutions to leading international industrial businesses and many leaders in the global markets.

LEONI is the world market leader for vehicle cables. Our wire products have given us a leading market role for the special cable and component industry. The particular strength of LEONI within the cable business lies in its ability to manufacture both standardised cables and customer-specific special cables and assembled systems. We offer superior technical expertise, product innovation and a global customer service network.

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