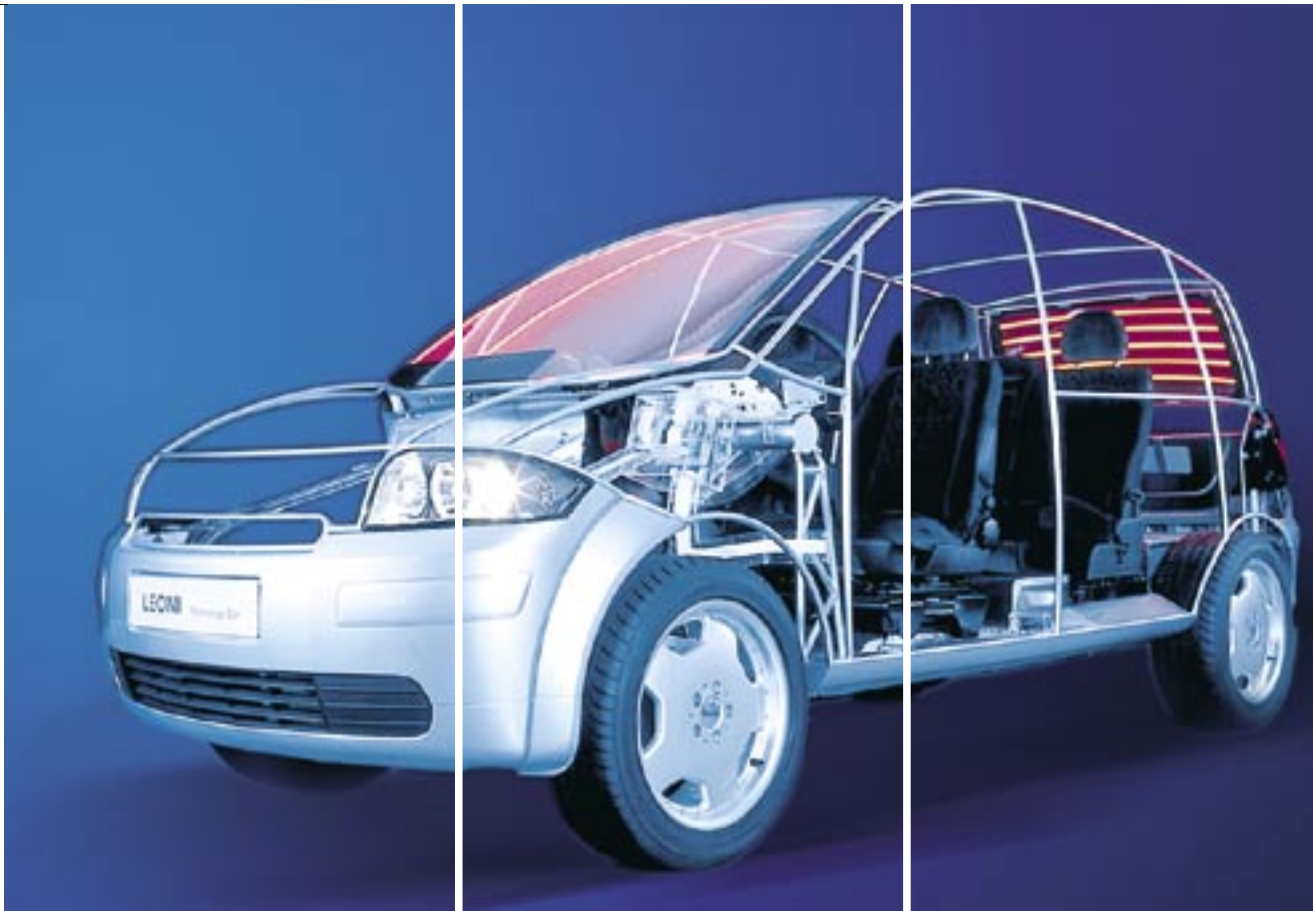


**Experiencing the future now...**



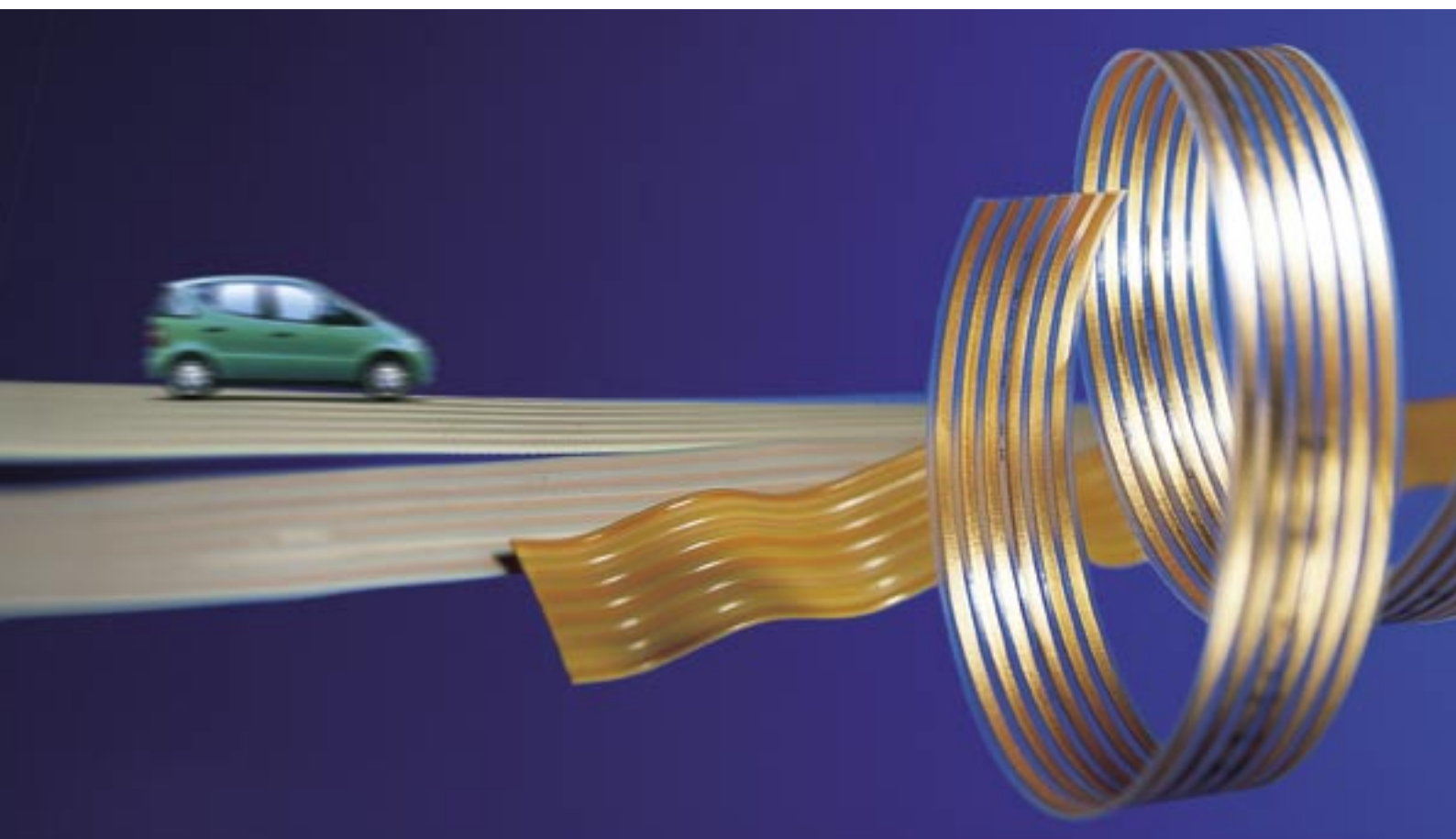
**LEONI Automotive Cables**

THE QUALITY CONNECTION

**LEONI**

Wire • Cable • Wiring Systems

# Wiring for the cars of tomorrow



The demands placed on our cars in terms of safety, comfort and economy are growing. In order to meet these expectations there is a continually increasing number of electric and electronic monitoring and control systems and a steadily growing number of features in areas such as engine management, chassis safety, reduction of emissions, navigation, air conditioning, audio/video as well as seat and mirror adjustment to ensure that driving is as pleasant an experience as possible for the driver. As a result, the amount of wiring that must be accommodated in the car is rising.

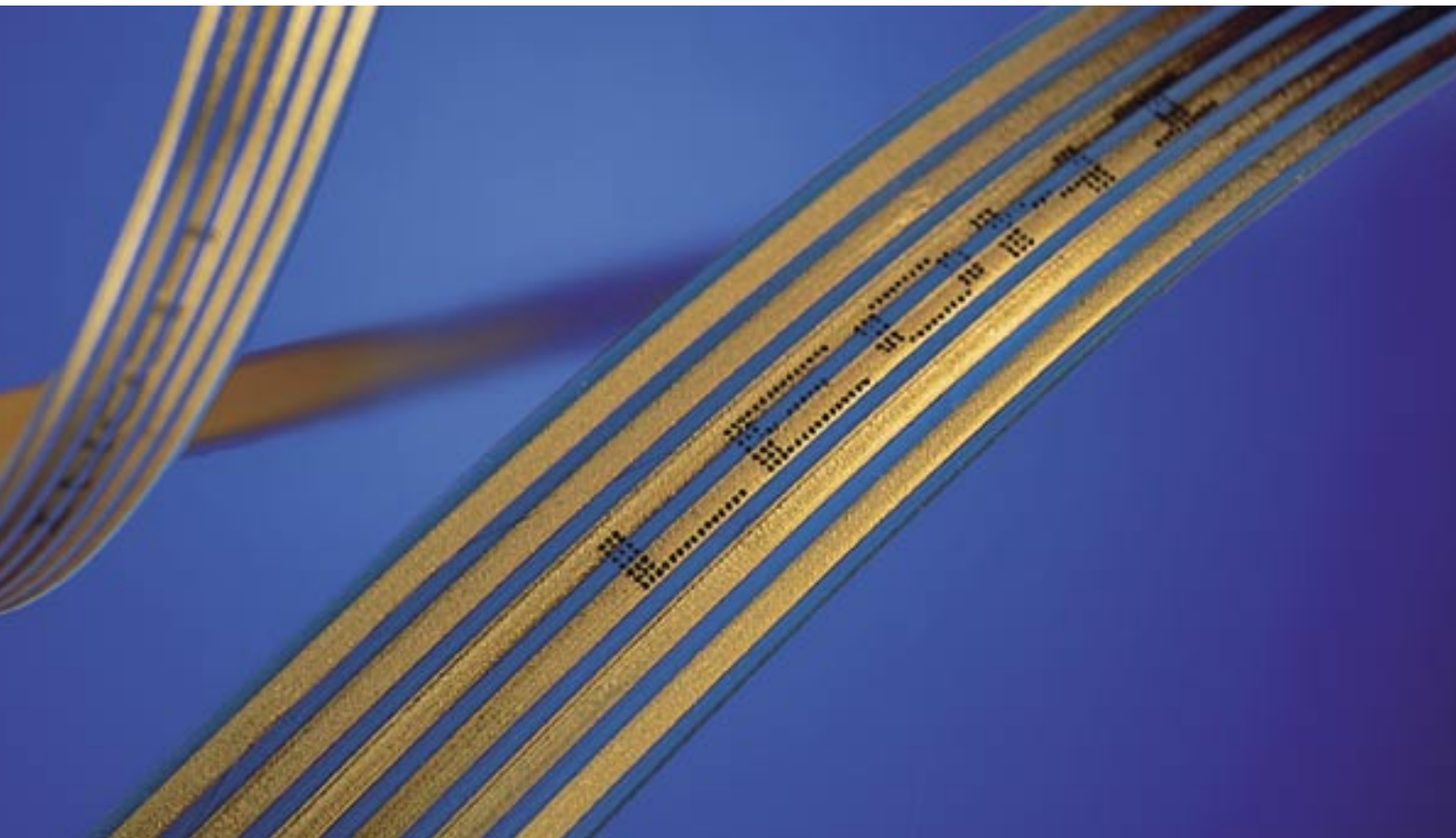
Wiring systems are becoming increasingly extensive and heavy – despite use of the latest electronics, computer-optimised fitting of wiring and carefully thought-out location of the numerous systems and components. A new generation of cables and wires that LEONI, as

one of world's leading manufacturers of automotive cables for wiring systems, has developed provides an approach from which to resolve this problem: Flat conductor cable with extruded insulation, battery cable with aluminium conductors and miniaturised data transmission cables.

Combining several functions, such as tyre pressure monitoring, brake wear alert displays and ABS sensors in one shared cable in an appropriate way also helps to save space.

Technology that was actually intended only for vehicles of tomorrow may already be scrutinised under hands-on conditions – namely on the LEONI Technology Car, a full-scale car model that is equipped with a wiring system optimised in this way.

# LEONI exFC®



## **The highest degrees of flexibility and performance while requiring minimal space.**

LEONI's extruded flat conductors are designed to be fitted in areas that provide little space for cable: in the roof, doors and cockpit.

LEONI exFC consists of flat-rolled copper conductors arranged in parallel. A special extrusion method allows a very wide range of insulation materials to be applied. The choice in the number and width of the individual wires is almost unrestricted.

## **The benefits of LEONI exFC at a glance:**

- saves space and weight
- secure connection as it is error-free
- hardly inflammable
- high heat resistance
- resistant to the media installed in cars (hydrolytic resistance)
- easy to print on and colour
- suited to direct bonding
- flexible fitting especially in tight spaces.

# LEONI Dacar<sup>®</sup>

# LEONI aluminium battery cable



## **The link for mobile communications.**

With LEONI Dacar we created a range of data transmission cables that are perfectly tailored for use in car manufacturing.

LEONI Dacar 031 is one of the highlights of this range. This cable represents a further development of conventional data wiring because it is an ideal combination of good electrical properties with the smallest possible gauge. Areas of application are GPS as well as navigation and antenna systems.

It goes without saying that LEONI Dacar also conforms to the requirements of the EU's end-of-life vehicle directive: the sheathing consists of lead-free PVC.



## **Low weight combined with high performance.**

Car manufacturers are increasingly relocating the battery to the rear of the vehicle to improve its handling and because of the confined space available in the engine compartment. The longer cabling for electricity supply that this requires entails, if copper is used, high weight that may be reduced by up to 40 % if aluminium conductors are used.

LEONI has therefore developed battery cable with aluminium conductors, optimised above all with respect to permanent and secure bonding. The product has already successfully passed its "initiation rites" in mass application.

Flat aluminium battery cabling is an entirely new LEONI product. The cable, developed for BMW, is fitted to the underbody of the car. A foil screen, meanwhile, serves as a sensor: The driver will receive an immediate error alert if the sheathing is damaged.

# Climb aboard



## **Business unit “Automotive and Standard Cables”.**

LEONI Kabel is regarded as one of world’s leading cable manufacturers, especially in the field of automotive cables. With manufacturing facilities in Germany, Hungary, Poland, Mexico and China, the “Automotive and Standard Cables” business unit assumes a position of prime significance. In addition to its global footprint, the unit commands more than fifty years of experience in manufacturing cable and wiring for vehicle production.

LEONI innovations, such as weight-optimised automotive cables – which was originally developed for a sports car maker – for example, have established new benchmarks and have long since become common industry standards. Our latest new products will in future prevail successfully in the market as well.

These days, LEONI’s customer base includes many well-known wiring systems manufacturers that likewise produce around the world as well as cable assemblers who maintain in-depth joint development work ventures with us, placing a high value on their “Quality Connection” to LEONI for a wide range of reasons:

- high product quality
- proximity to the customer
- perfect service
- a high degree of innovative power
- reliability

Contacting our “Automotive and Standard Cables” business unit will always be worth it – even if you are not directly involved in vehicle manufacture.

**LEONI Kabel  
GmbH & Co. KG**

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