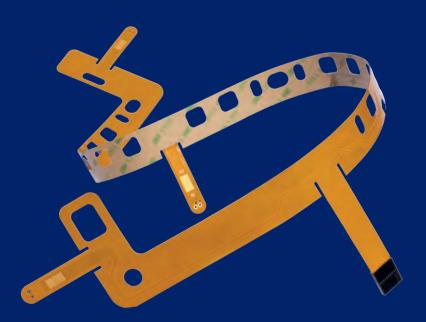


Cisel srl, a Leader Company in design and production of rigid and flex PCB with innovative technology, high quality standards & Made in Italy

automotive



HIGH TECHNOLOGY PRINTED CIRCUIT PRODUCTION





THE MOBILITY IS CHANGING

From the first combustion engines, developed at the end of 1800s, we are today into hybrid engines, with the target to be very soon fully electric.

Starting from 2035 carmakers will no longer be able to sell combustion engine cars.

Consequences is, the demand for battery packs is constantly growing and Cisel is already supporting this epochal change.

The request from the market is to have FLEX PCB as big as possible to connect the Bus bar for the interconnections of the battery pack. These products have also the function to check and monitor the temperature, so the SMD components have to be assembled on the FLEX: NTC in particular, but also Fuses, Connectors and Metallic Welding Tabs.

Welding tabs can also be obtained directly from the tracks of PCB. But the real challenge is to produce FLEX PCB whose length exceeds two meters and which has to be assembled with SMD components.

Cisel invested in custom made production machines and SMD assembly lines to make this possible.

At CISEL we also offer cover coating on components with specific resin, Adhesive Tapes, Thermal pads and Stiffeners.



Antennas AM-FM-DAB-Wifi-Thelephony, produced in PI-Pen, soldered with components and coaxial cable, protected in accordance to IP65 by molding with hot melt or UV resin



FLEX PCB n°1 layer: accessible on both side Bus bar connections

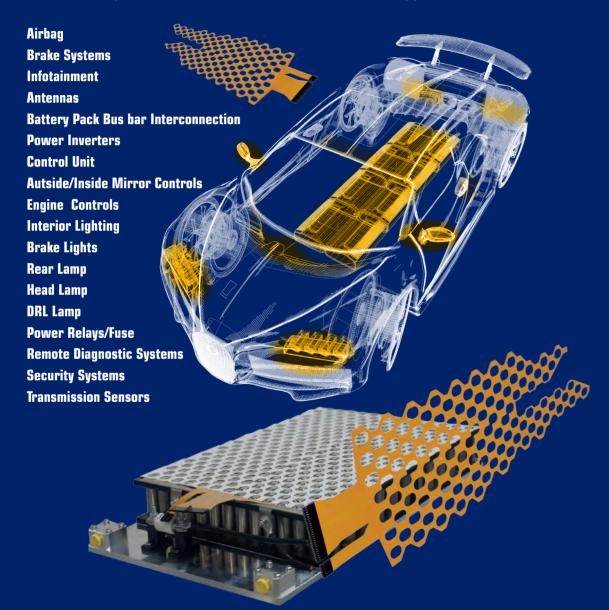


Single Sided FLEX PCB copper accessible for both side, soldered with special connectors flex to wire for battery pack interconnection

Automotive Printed Circuit Board Applications

Printed circuit boards are used in many ways in the automotive industry and have changed the way that people drive.

Examples of Automotive Printed Circuit Board Applications



automotive



In addition to the existing products, Cisel has developed a wide range of highly complex pcbs, customized according to the Customer needs, using the most advanced materials and production technologies, and where necessary, creating customized machinery for the production in order to achieve the high technological and quality standards required, all made in Italy.



Starflex PCB 2 Layers for E-Bike



IMS Single Sided PCB for High power dissipation PCB for inverter



ALU FLEX PCB with SMD components for Rear Lamp

HIGH TECHNOLOGY PRINTED CIRCUIT PRODUCTION





Cisel, an Italian company, leader in the design and production of quality and high-tech pcb.

Established in 1976, during the years, the company has developed a wide range of skills and know-how.

Thanks to its great experience gained in these years, Cisel is able to produce any type of printed circuits: single and double-sided with plated through holes - multilayer - aluminum (or metal core) - flex - star flex.

Cisel can supply PCBs with assembled components in SMD and THT technology.

Our products are widely used in many sectors, such as Automotive, Lighting, Industrial, Medical, Banking and Appliance.

Cisel installed the first production line for flexible PCB in 1984.

With six reel to reel production lines, Cisel is the European Leader manufacturer in this technology.

Over the last 30 years, the demand of the Flex PCB technology increased a lot. Sectors such as Automotive, Medical, Industrial & Lighting, have introduced these products more and more and Cisel is proud to have been pioneer and an integral part of this growth. Today Cisel is able to offer the most advanced technology and is the ideal partner for all those customers that want to win the challenge in global markets through quality, competitiveness and innovation.



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