



Solutions for e-mobility

ELECTRONICS AND SENSORS

Innovative components for
safe charging technology

- | Circuit board design
- | Thermal sensors
- | Cable manufacturing
- | High current plug connectors
- | LED displays and lighting



25 Years
since 1993

e-mobility.alacsystems.de

We support you as a
**SOLUTION PARTNER
AND INITIATOR**

Join us in the fast lane

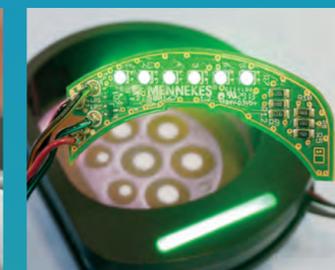
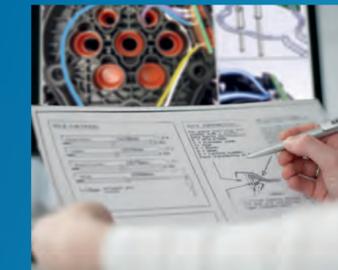
We have been a specialist in the field of electronic assemblies and tailor-made connection solutions for cars for over 25 years. From development and production to experience as a result of intensive and long-standing cooperation with tier1 and tier2 suppliers to the automotive industry, our comprehensive expertise makes us the ideal partner for your projects. These factors require a wide range of services: From consulting, analysis and development through to serial production and delivery:

- Product development
- Prototypes and prototype construction
- Manufacturing in accordance with IATF 16949
- Material checks (IMDS / RoHS / Conflict minerals)
- Process monitoring and control
- Quality monitoring and optimization
- Process and product optimization
- Logistics, warehousing and customs
- Processing complaints

The electrification of mobility continues to gain momentum, but topics such as battery technology and infrastructure are the main focus. At the same time, optimum connection technology plays a role that should not be underestimated – This is where ALAC is able to make a forward-looking contribution with innovative developments and products for infrastructure operators, charging stations, vehicle manufacturers and their suppliers.

Depending on requirements we supply the latest components or alternatively, we integrate them in complete systems.

- | Electronic components
- | Circuit board design
- | Thermal sensors
- | Cable manufacturing
- | High current plug connectors
- | LED displays and lighting



Applications in the field of electromobility

Together with our customer, we have successfully developed a solution for temperature detection in the loading inlet of the vehicle that exemplifies a large part of the value chain of our services. In addition, with our own connector development and production in the field of high current contacts (BIZON® press-fit contacts), we offer a key component designed for high currents.

The advantages of our solutions

- | Easy integration into the existing inlet
- | Extremely compact design
- | Flexible printed circuit board design allows for various variants
- | Robust system through the simplification of components, e.g. by eliminating soldering processes
- | High-precision temperature measurement supports fast-charging technology
- | Increased functionality of the charging inlet through the integration of features such as LED displays and lighting

Our services

- Design and layout of printed circuit boards
- Providing the printed circuit boards with thermal sensors
- Cable manufacturing and connection of the PCB
- Development and production of plastic housings
- Development and production of lighting scenarios
- Electrical insulation and shielding

“We deliver with the quality thinking of a supplier to the automobile industry.”

Dr. Alfons Naber | CEO, ALAC GmbH

“Do not spend any more time looking for the right product, but the right partner for development and production.”

Kay Naber
CEO, ALAC GmbH



Your innovative partner for

DEVELOPMENT AND MANUFACTURING

From concept to series production

- | Electronic Components
- | Interior Lighting Systems
- | Customized Connectors
- | Wire Harnesses
- | BIZON® - Press-Fit

Safe charging technology

INDUCTORS AND TRANSFORMERS

High power conversion

As with all applications that require extremely careful power control, choosing the right electromagnetic component is essential. Often, a very individual product is needed. A product that can be easily integrated into the project and that meets very high quality standards.

High currents also require high power components, especially with regard to rapid charging technology.

With our interdisciplinary expertise, we provide support at every stage of development, from the idea behind the concept and planning through to serial production.

- | Conversion of alternating current (AC) to direct current (DC)
- | Adjustment of direct current to the requirements of the battery
- | Galvanic isolation/decoupling
- | Power Factor Correction (PFC)

We are proud Member of:

acs | automotive center
SÜDWESTFALEN



qi WIRELESS POWER
CONSORTIUM

FED Fachverband für Design,
Leiterplatten- & Elektronikfertigung

We are certified:

ISO9001:2015
valid until 23.09.2022

AEO-DE AEOF 118110
valid from 10.07.2013



ALAC
systems

25 Years
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