

MICAScomponents

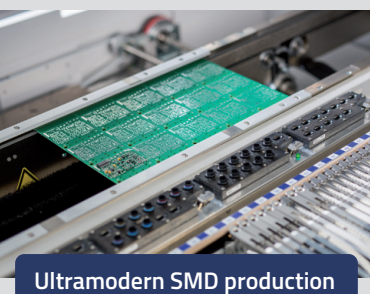
SMD / THT assembly | component assembly | cable production | full service

Customized SMD / THT assembly in a state-of-the-art manufacturing environment

With the MICAScomponents business unit, we not only offer classic EMS services such as assembly and mounting, but also support our customers as a competent partner throughout the entire development and production process of their PCB orders. All **"Made in Germany"**.

Our services at a glance:

- SMD assembly
- THT assembly
- Component assembly
- Development and project planning
- Material management
- Cable production



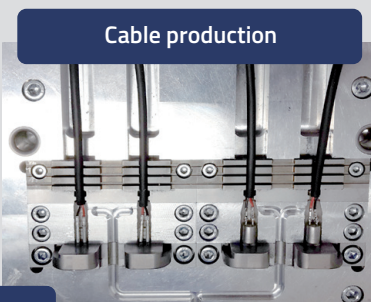
Ultramodern SMD production



State-of-the-art production facilities



In-house component assembly



Cable production

Total reliability throughout the entire manufacturing process

High quality, speed, precision - these are key elements of our state-of-the-art production facilities and our processes. That is proven both by our certification according to **ISO 9001:2015** and a look at our statistics:

0.01 % rejection rate

in 2020 for in-house manufactured PCBs



SMD assembly

Highest flexibility in size and quantity

With our highly modern production lines, we have the possibility to assemble boards with **type 0201**, **BGA** and **µBGA**. Our high-performance machinery is not only designed for the production of large series, but also allows **low-volume high-mix** production. Thanks to fast machine changeover, we can also produce moderate quantities cost-efficiently.

In addition to standard PCB production, we offer:

State-of-the-art inspection methods for one hundred percent inspection coverage

- 3D AOI (Automatic Optical Inspection)
- SPI (Solder Paste Inspection, fully automatic)
- Electrical testing according to defined test plans
- High-voltage testing

High-end manufacturing processes, such as:

- Reflow ovens with 5 temperature zones
(for material-conserving fixation, soldering in N₂ atmosphere)

Traceability

- Barcode-controlled processes
- Incoming goods scanner
- Documented goods leaving inspection



THT assembly

For **through-hole-assembly (THT)** we rely on mechanized soldering processes such as:

- Selective soldering
- Wave soldering



Component assembly

For **manual assembly of components**, we rely on the skills of our experienced production team. With the latest processes such as **clear casting**, we provide the perfect finish to the precise manual work.

Cable production

for applications in the sanitary and water sector

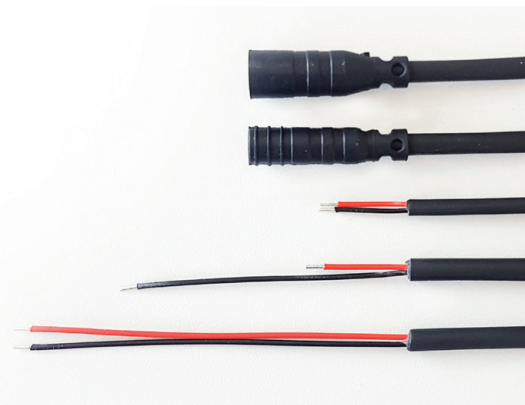
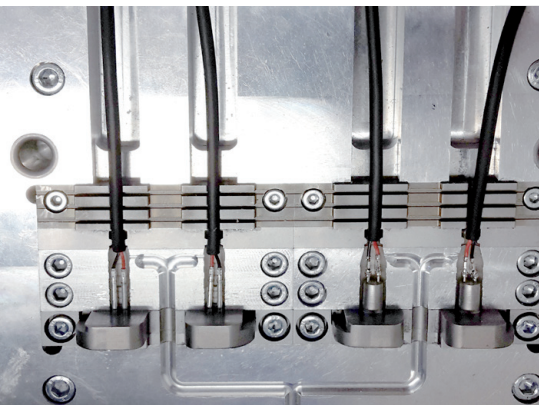
Halogen-free cables according to IP68

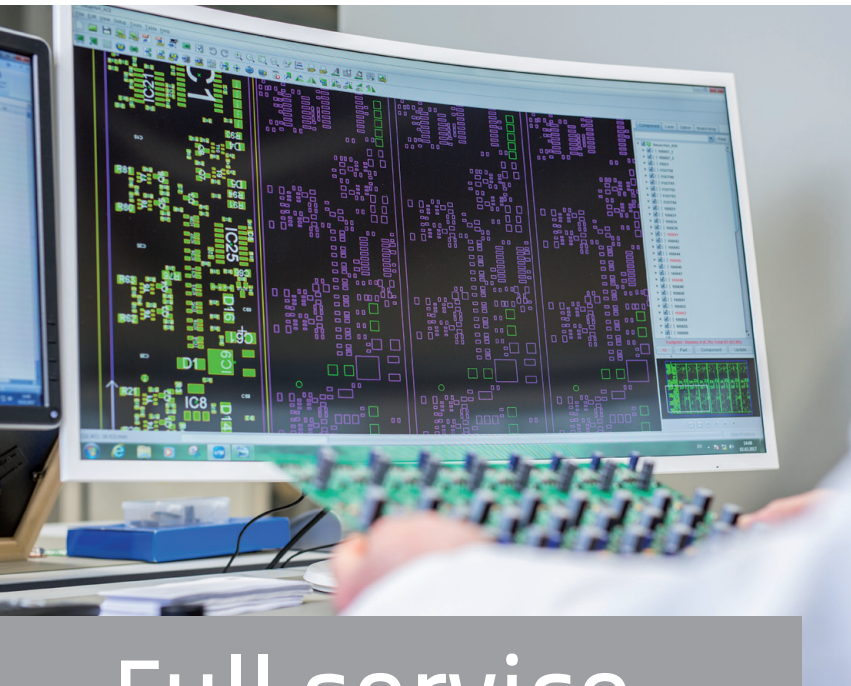
In accordance with customer requirements, we manufacture waterproof cables and connectors for electronic applications in the **sanitary, heating and kitchen** sectors.

The special feature is the use of halogen-free materials. Therefore, the cables are also suitable for installations with high fire protection requirements. With regard to cable length, cable ends, stripping and labelling, we comply with the customer's specifications.

Features:

- 2-pole, male or female connector
- Flattened connectors to protect against polarity reversal and twisting
- Waterproof (according to IP68)
- Halogen-free material
- Customized cable marking possible
- Customized lengths and stripping possible
- Additional certifications on request





Full service

Individual and transparent calculation

All project plans are individually calculated after precise knowledge of the customer's wishes and broken down in a transparent cost overview.

From the layout to the assembled board

As a full-service provider, we accompany our customers **from the product idea to series production**. This involves providing the technical infrastructure, our manufacturing expertise and the know-how of our employees.

Based on many years of experience in the development and production of electronic components, we offer support in the following areas:

- Material sourcing
- Layout generation or utility optimization for a production-ready PCB design
- Production optimization in terms of cost and resource efficiency
- Component testing and quality control
- OEM-compliant packaging

We either supervise the **entire development process or take on individual tasks**, such as:

- IC programming service (Reel to Reel, Tube to Reel)
- Taping and reeling



Active in the sensor business
for over

20 years

More than

90

employees

In-house

childcare

center

Contact

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Certified according to ISO 9001:2015