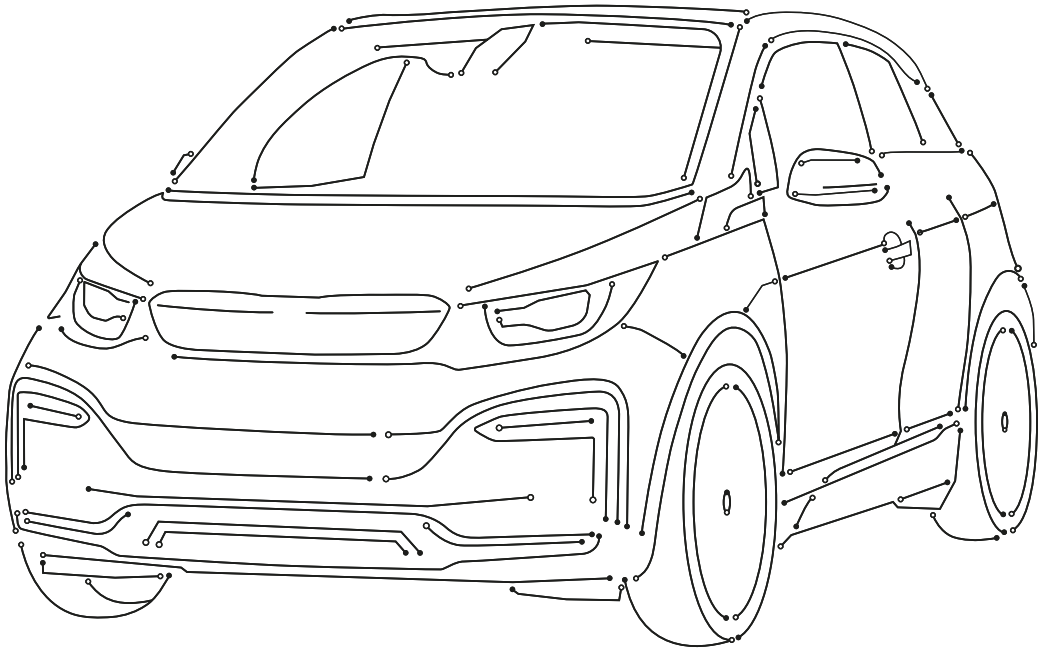
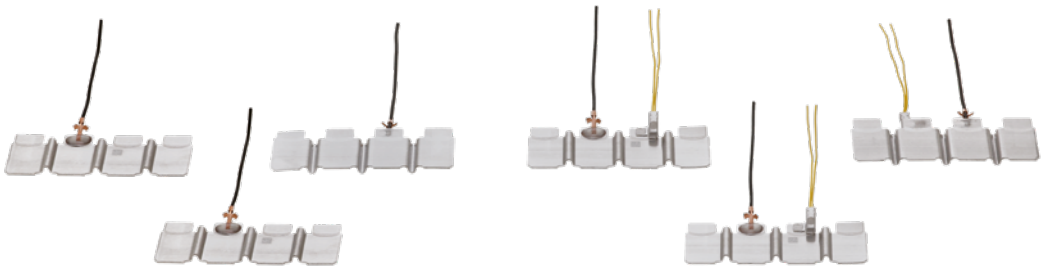
Driving the future

Elring – Das Original
Spare parts for BMW i3 and Voltabox





Das Original

ElringKlinger has been carrying out research in the field of alternative drive technologies for around 20 years. Research and development of battery technology in particular is also being stepped up at the Dettingen/Erms, Neuffen and Thale sites.

ElringKlinger AG therefore has the requisite development and production expertise in the field of batteries to provide sophisticated systems and components that are suitable for series production. All of this from a “full service supplier”. From development to prototype construction, testing to series production and from individual components to complete battery systems.

All necessary testing and validation devices are united under a single roof in our development centres for electromobility. ElringKlinger tests and validates battery systems, modules, cells as well as components across an area of 2,000 m². Our range of expertise here includes mechanical tests as well as electrical and electrochemical tests. We also have test capabilities for validating all relevant tests standards here, which enables us to provide our customers with top quality.

This expertise is now also being put into practice in the ElringKlinger Aftermarket. Selected spare parts are available for e-mobility under the brand “Elring – Das Original”. A cell contact system for the BMW i3 as well as two Voltabox cell connectors and more are available in the new range. Elring is a strong partner for you for the trained workshop of tomorrow.

S-Box line

The S-Box line connects the Safety Box of the battery bank to the modules.

S-Box line
004.471

Cell contact system

- For lithium-ion batteries
- Various configuration levels = specific modification possible
- Direct attachment to the cell cluster possible
- Required voltage and temperature sensors already included
- User can integrate monitoring electronics (CSC) themselves
- Use in hybrid as well as in purely electric vehicles

Cell contact systems for lithium-ion batteries from ElringKlinger, which are available in various configuration levels, are precisely coordinated to the relevant customer's specifications and can be placed and welded directly on the cell cluster. They consist of a plastic carrier frame that holds the cell connectors and ensures they can be installed in all tolerances.

The required voltage and temperature sensors are already included and the user can integrate the monitoring electronics (CSC) themselves. Approved or newly developed automotive plug systems are used at the interfaces (plug & play).

Cell contact systems from ElringKlinger are suitable both for use in hybrid as well as in purely electric vehicles.

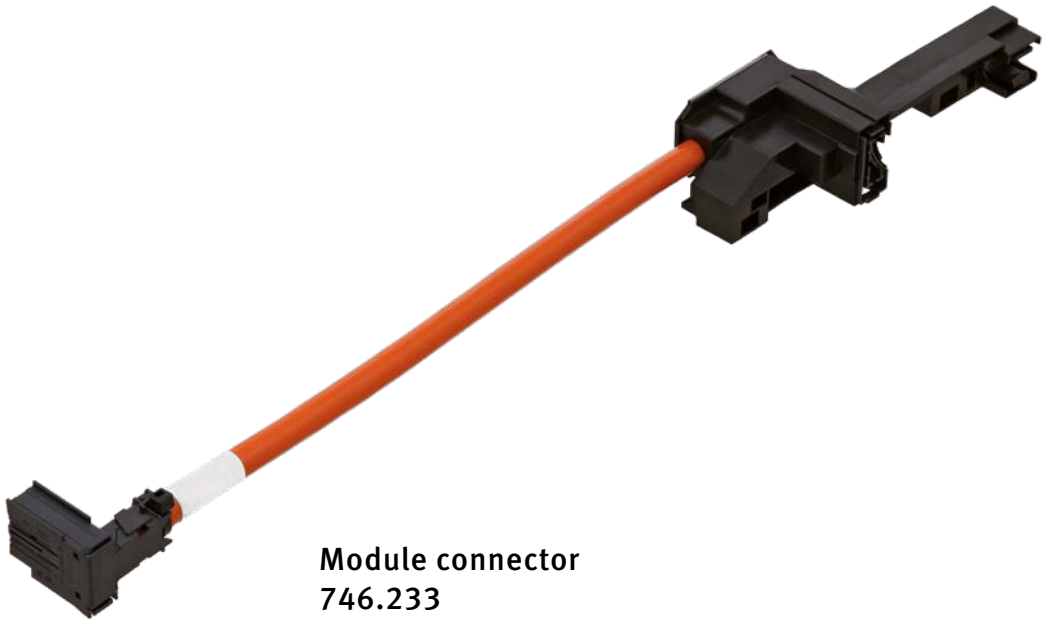
Cell contact system
419.710

Module connector

- Interface between the individual modules as well as the cell contact systems
- Can be integrated directly into the cell contact system
- Plug-in or screw solutions are possible

Module connectors are required as interfaces between the individual modules and the cell contact systems in order to set up an energy storage system. The modules are connected both with one another as well as with the vehicle's power electronics. Module connectors from ElringKlinger can optionally be integrated directly into the cell contact system. Plug-in or screw solutions or combinations of these are possible.

Approved contact systems or suitable innovations (which can be implemented together with partners if required) can be used.



Module connector
746.233

Battery cover

Battery cover
746.221

The battery cover of the cell contact system is intended to provide protection after welding and maintain the air and creepage distance.

Cell connector for Voltabox

- Flexible and thin
- Large cross section
- Weight-optimised
- Outstanding thermal and physical durability
- Enables a higher cell service life

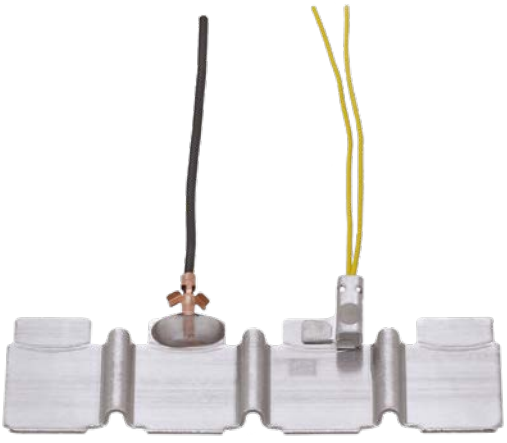
Cell connectors are responsible for the current feed between the individual cells of a module. On the one hand, they have to be as flexible and thin as possible in order to compensate tolerances between the cells; on the other hand, very high currents are to be transferred, meaning a large cross section is required. The specific, weight-optimised connection solutions from ElringKlinger offer both.

Temperature fluctuations between the cells are also compensated optimally thanks to the outstanding thermal and physical durability. This compensation of forces results in a higher cell service life.

Cell connector
582.481

Cell connector
582.501

Cell connector
582.491



Cell connector
582.511

Expand your knowledge!

We provide comprehensive training courses on the topic of e-mobility and technology in electric and hybrid vehicles. Expand your knowledge and make yourself ready for the future. Our technical trainers will show you how electric vehicles work and what you have to take into account.

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Your Elring certificate awaits!

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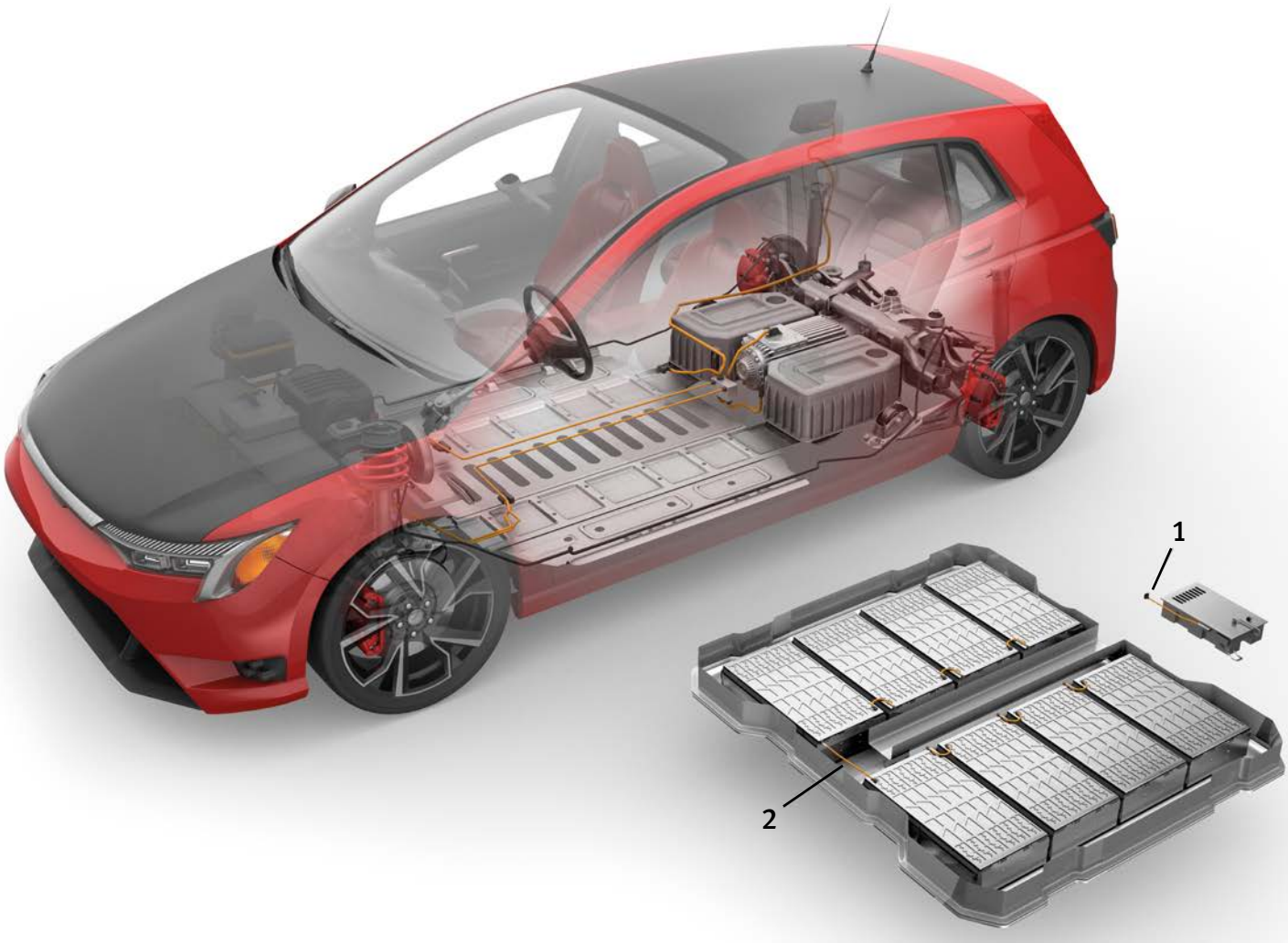
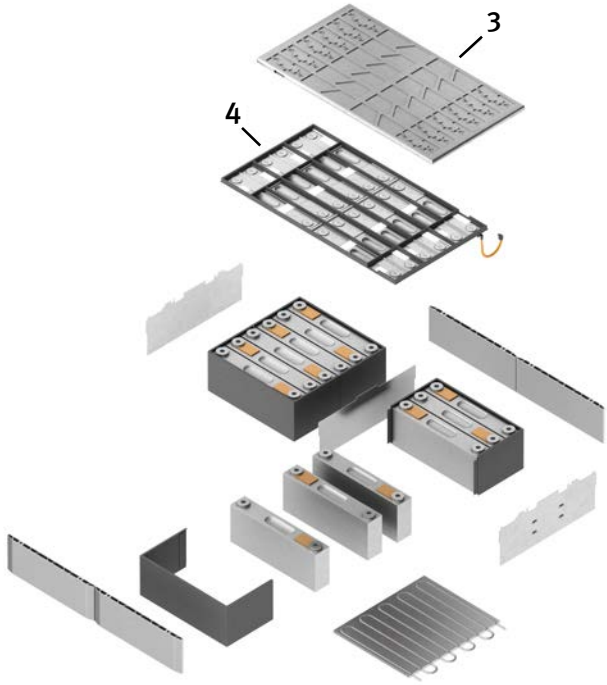
Where can you find Elring spare parts?



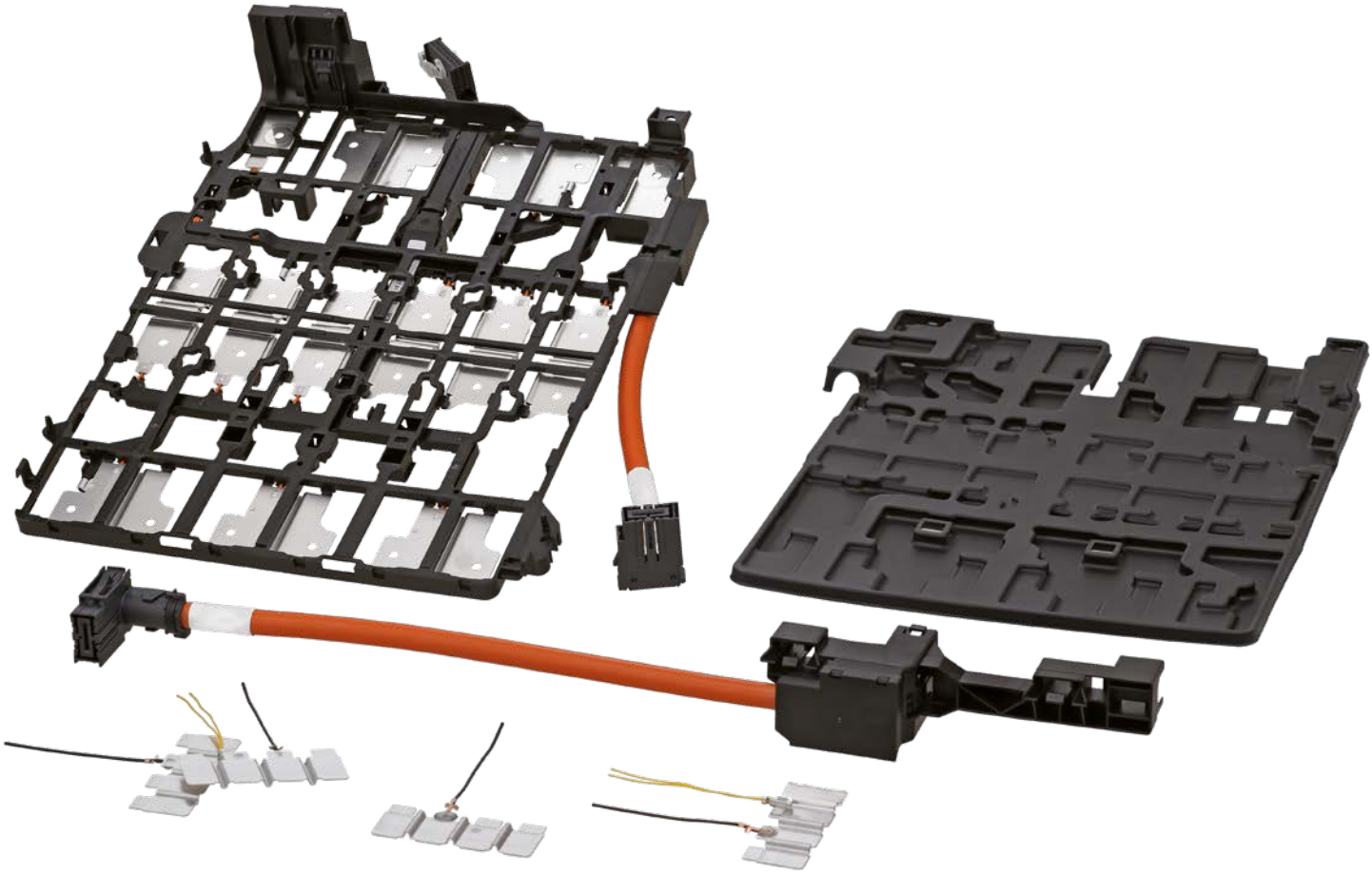


Das Original

1	004.471
2	746.233

Das Original

3	746.221
4	419.710



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