

E-Mobility made by Bals



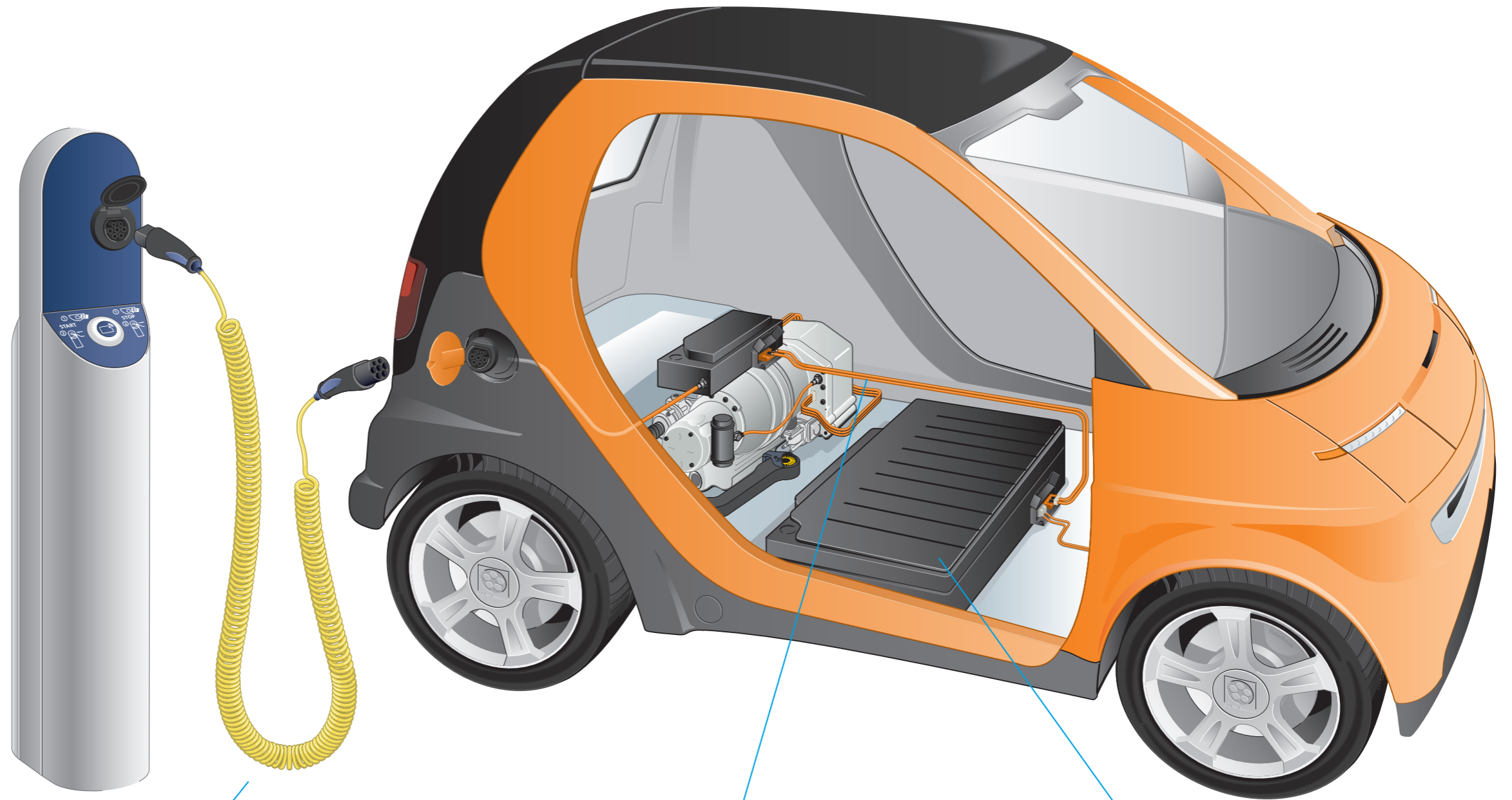
E-Mobility

Charging system, internal connection cables and high-voltage connections

Bals Elektrotechnik has been working on its charging systems for electric vehicles since as long ago as 1996. Initially, these were based on a standard 230-volt earthed socket with an auxiliary contact switch, but today the company offers a dedicated solution that is fully compliant with the new VDE standard. This next-generation charging system was developed in cooperation with the Stuttgart-based Lapp Group.

Bals is a family-owned business that has been producing electrical connectors for over 50 years and marketing them globally. The company pioneered the use of screwless technology in CEE connectors. The quality and technical sophistication of its products is attested to by certifications from independent testing labs in Germany and around the world, and by the large number of patents that the company holds.

As well as the charging system itself, Bals's cooperation partner the Lapp Group also offers patented high-voltage cabling for use in vehicles' electric motors. In addition, leading automotive manufacturers and component suppliers are already using Lapp wiring and plug-in connectors inside their lithium-ion batteries.



Charging system – developed jointly by Lapp Group and Bals Elektrotechnik

- Complies with VDE standard for connectors used in the charging of electric vehicles
- Cable is flame retardant as per IEC 60332.1-2
- Oil-resistant
- Operating temperature range -40 to +90°C

Patented high-voltage connections

- Max. voltage/current 800V/400A
- Max. operating temperature 180°C
- IP69K enclosure rating
- Resistant to vibration, mechanical wear and chemical damage

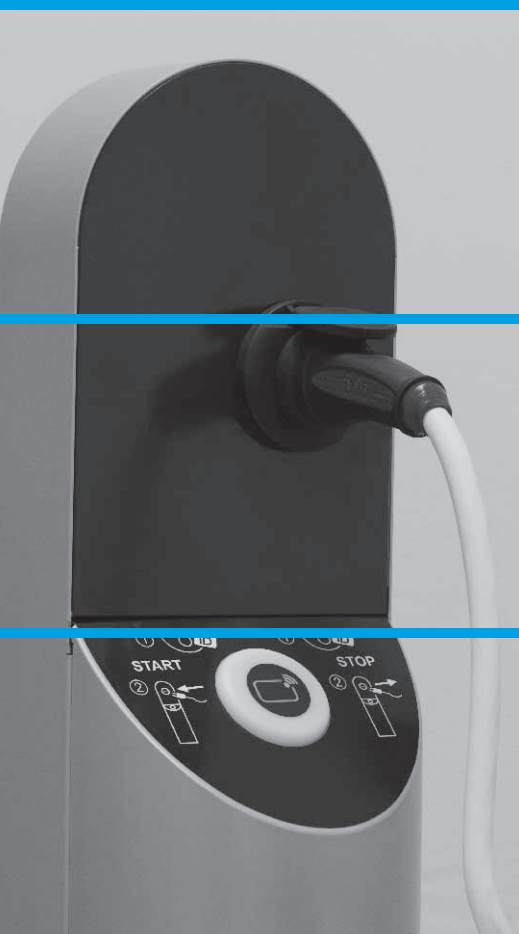
Internal connecting cables for lithium-ion battery

- Cable harness for energy storage
- Cable harnesses for current sensors, HV connectors, CSE connectors, DC/DC connectors and on-board electrical systems
- Overmoulded with silicone
- Heat-resistant ETFE wiring

Multi  Grip VON BALS

 **MODBOX**[®]
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QUICK  **CONNECT**[®]
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 **Bals**
ELEKTROTECHNIK

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