

eMobile
Charging cables
fixed installation





Over half a century competence and experience

Bals is a quality brand for innovation, reliability and service worldwide. For more than 65 years we have been producing connectors for the world market, and we are known for the highest quality "Made in Germany".

In our plants a team of highly qualified and motivated colleagues is manufacturing in an uncompromised quality approach multiple

thousand state-of-the-art devices per day. With an extraordinary high production depth we are covering the areas of product design and development, contact manufacturing, tooling, injection moulding, assembly and quality control. From the first idea to the final product, all this takes place in-house, to ensure constant supply chain and limiting the carbon footprint.



Three modern factories one consistent quality standard

From the beginning the headquarters of our company is located in Kirchhundem-Albaum (North-Rhine-Westphalia). Product development, marketing and sales, as well as administration are located here. In addition, plug and socket systems and special products are manufactured in the Kirchhundem-Albaum factory. The factory in Freiwalde (Brandenburg), has state-of-the-art production facilities for fully-automatic manufacturing of unique CEE plugs and connectors as well as a highly-effective logistics centre. Bals is active since decades in the manufacturing of components for the electric vehicle charging infrastructure. From 2021 in a dedicated new factory in Kirchhundem-Würdinghausen.



Future solutions for global markets

The proximity and partnership with our customers has guided our products in over 80 countries around the world. We are active participants of standardisation procedure on international and national area and commit with input into the legislation works of compliance topics on multiple stakeholder levels. We remain at the pulse of time, and challenge future topic well in advance, to ensure product compliance not only to today's requirements, but also future standards.



Customer proximity: You can rely on us

Always close to the customers. For us, this is no empty phrase but reality. Flexibility, customer orientation and the ability to quickly respond to short-term requirements are a matter of course for us. For this reason, integrated production - from the product idea and design to tool making and production to the shipment of the products - is optimised for short processing paths and the fastest response times.



People make the difference

Over 300 employees, who are dedicated and tightly connected to the company, have only one goal: to satisfy you, our customers, one hundred percent. This applies to the highest of quality stan-

dards that we apply to our product and also for made-to-measure service and personal contact from person to person.



Our responsibility to the highest quality

Quality does not permit any compromise. Besides having an ISO-9001-certified production process in all factories, we are implementing additional IATF based quality process beyond. Full automated and controlled assembly lines, electrical and mechanical quality control or extended process documentation are only few of them. The products are undergoing additional market driven evaluations in our in-house test laboratory which is under the positive assessment of VDE and ASEFA. We remain proactive on customer needs and validation requests.



Our responsibility to the environment

We know and love our region. Maintaining and protecting this unique landscape for future generations is important to us. Production that saves as many resources as possible, the highest environmental standards and continual enhancement of our ecological efficiency at all levels are a matter of course for us. Every individual employee at Bals is aware of this responsibility to people and nature.



Our responsibility to people and the region

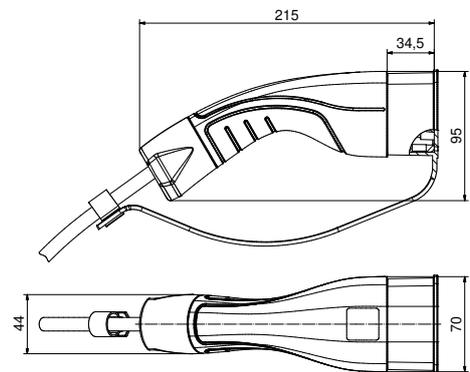
As a family-owned company, we are well aware of our special responsibility. We keep jobs safe, encourage the development of every individual and are loyal to our sites which we care for and permanently develop in the long term. Thinking about the future is also important to us: For this reason, we create qualified training positions in a wide variety of professional areas each year. We support numerous local meetings and events and employ an above average number of people with handicaps.

Charging mode 3 - type 2, One piece housing, cable type: flat



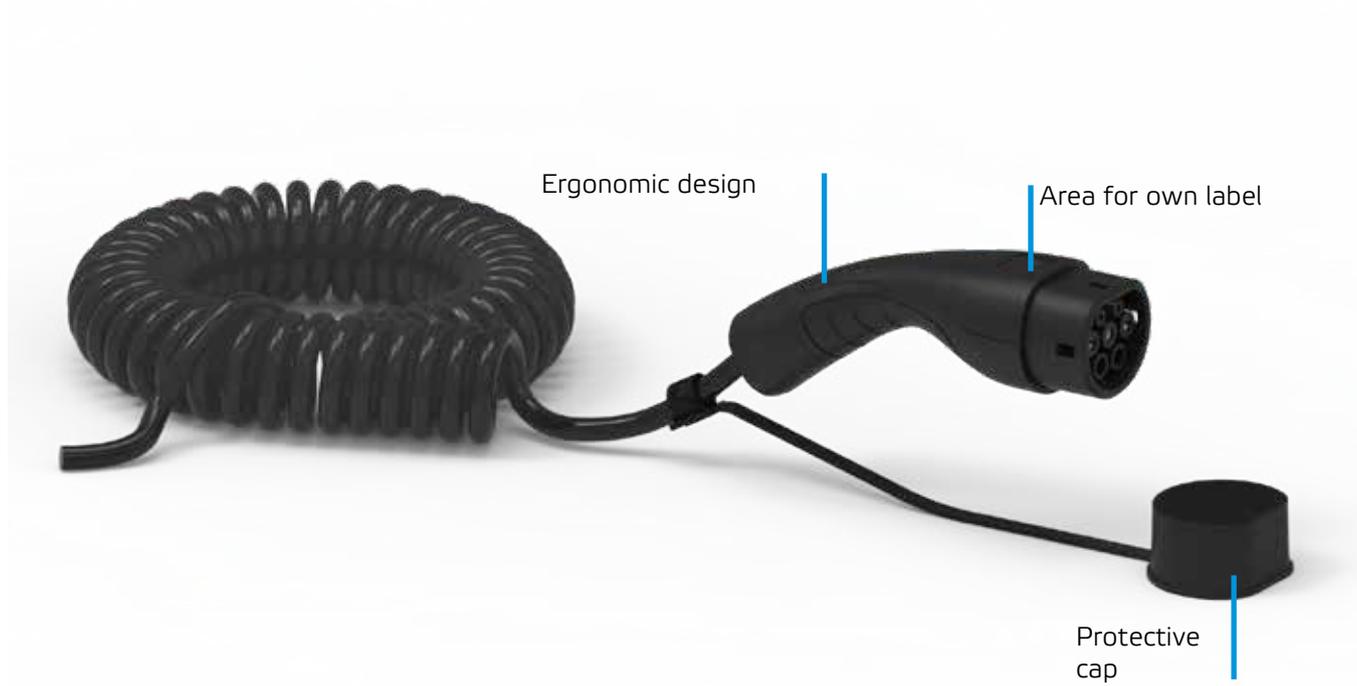
- Vehicle side (EV): type 2 charging connector
- Infrastructure side (EVCS): cut off clean
- Protection degree IP54 / IPx9
- Silver-plated contacts

Colour of connector: black



Charging capacity	Cable length	Phase	Resistance	Cable variant	Part No.
up to 20A - up to 3,7kW	5m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-3291-050B
up to 20A - up to 3,7kW	8m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-3291-080B
up to 32A - up to 7,4kW	5m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-3301-050B
up to 32A - up to 7,4kW	8m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-3301-080B
up to 20A - up to 11kW	5m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-3311-050B
up to 20A - up to 11kW	8m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-3311-080B
up to 32A - up to 22kW	5m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-3321-050B
up to 32A - up to 22kW	8m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-3321-080B

Charging mode 3 - type 2, One piece housing, cable type: coiled

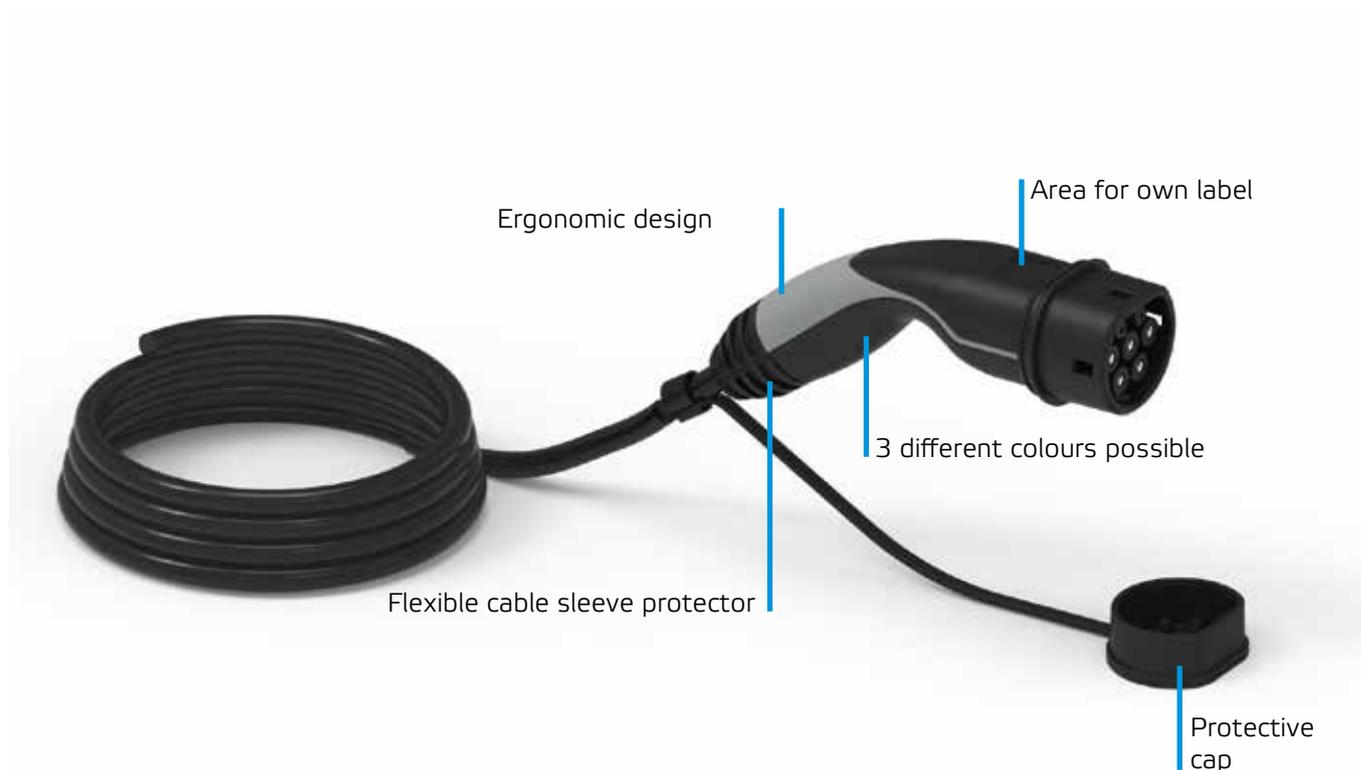


- Vehicle side (EV): type 2 charging connector
- Infrastructure side (EVCS): cut off clean
- Protection degree IP54 / IPx9
- Silver-plated contacts

Colour of connector: black

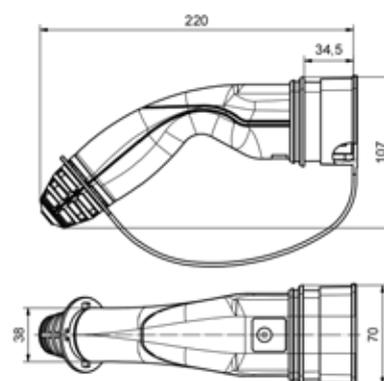
Charging capacity	Working length	Phase	Resistance	Cable variant	Part No.
up to 20A - up to 3,7kW	4m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-3291-G040B
up to 20A - up to 3,7kW	5m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-3291-G050B
up to 20A - up to 3,7kW	6m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-3291-G060B
up to 32A - up to 7,4kW	4m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-3301-G040B
up to 32A - up to 7,4kW	5m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-3301-G050B
up to 32A - up to 7,4kW	6m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-3301-G060B
up to 20A - up to 11kW	4m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-3311-G040B
up to 20A - up to 11kW	5m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-3311-G050B
up to 20A - up to 11kW	6m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-3311-G060B
up to 32A - up to 22kW	4m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-3321-G040B
up to 32A - up to 22kW	5m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-3321-G050B
up to 32A - up to 22kW	6m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-3321-G060B

Charging mode 3 - type 2, 3 shell system, cable type: flat



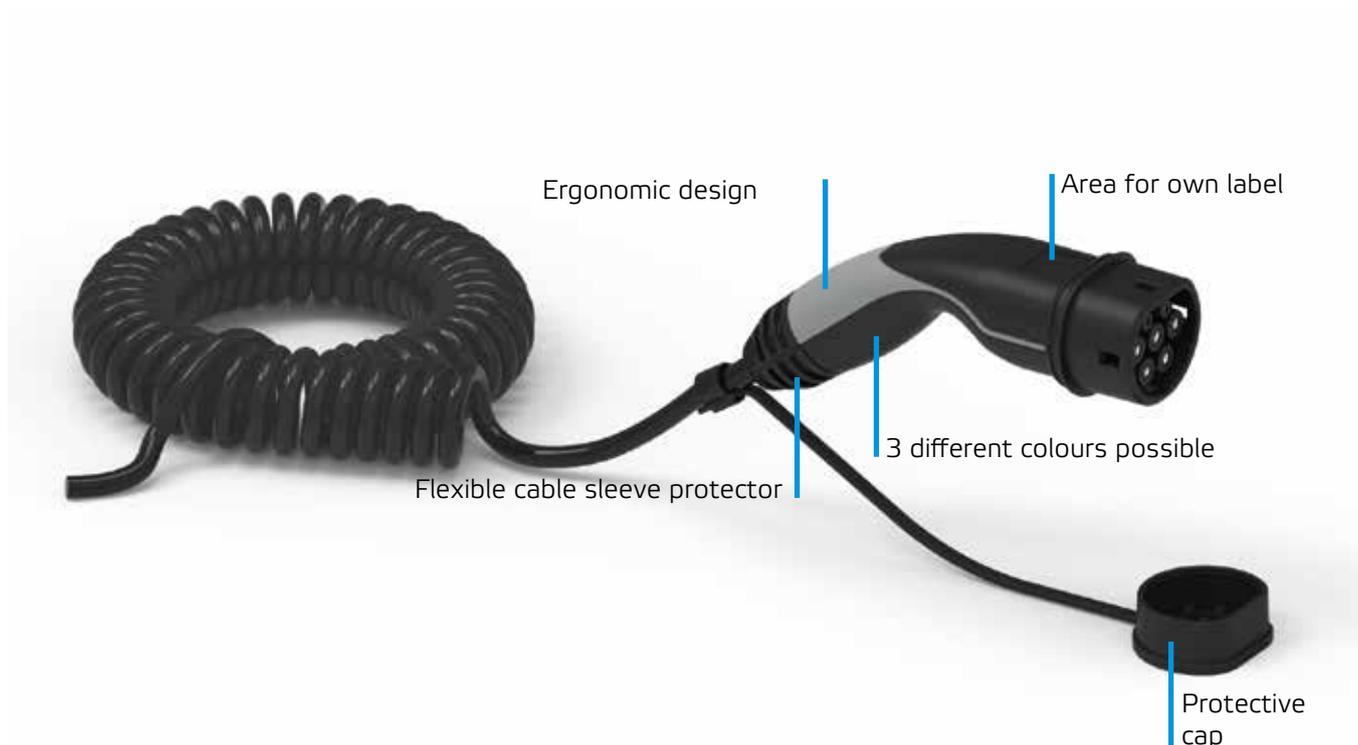
- Vehicle side (EV): type 2 charging connector
- Infrastructure side (EVCS): cut off clean
- Silver-plated contacts

Colour of connector: black - grey - black



Charging capacity	Cable length	Phase	Resistance	Cable variant	Part No.
up to 20A - up to 3,7kW	5m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-329151-050B
up to 20A - up to 3,7kW	8m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-329151-080B
up to 32A - up to 7,4kW	5m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-330151-050B
up to 32A - up to 7,4kW	8m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-330151-080B
up to 20A - up to 11kW	5m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-331151-050B
up to 20A - up to 11kW	8m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-331151-080B
up to 32A - up to 22kW	5m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-332151-050B
up to 32A - up to 22kW	8m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-332151-080B

Charging mode 3 - type 2, 3 shell system, cable type: coiled

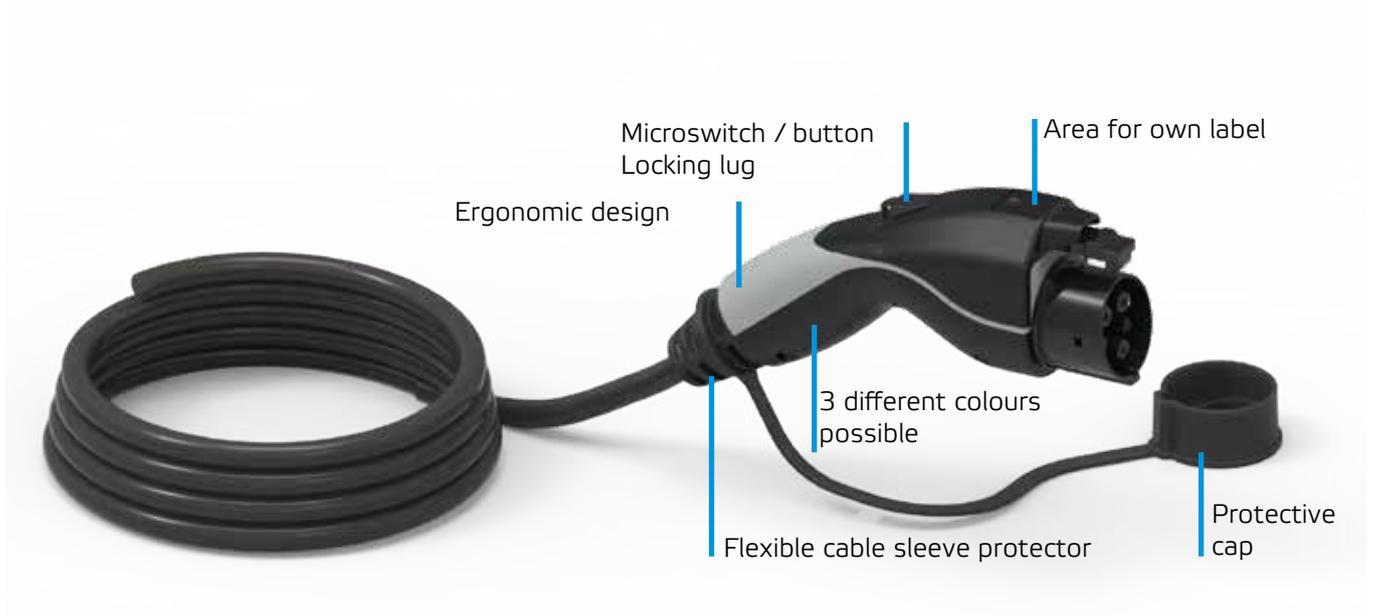


- Vehicle side (EV): type 2 charging connector
- Infrastructure side (EVCS): cut off clean
- Silver-plated contacts

Colour of connector: black - grey - black

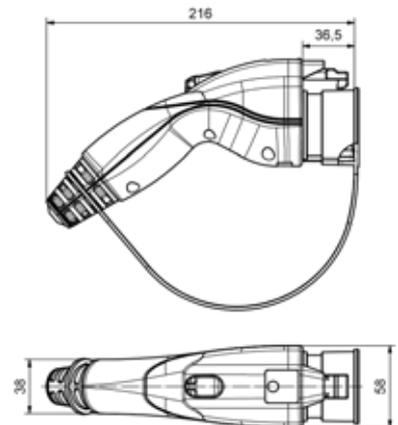
Charging capacity	Working length	Phase	Resistance	Cable variant	Part No.
up to 20A - up to 3,7kW	4m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-329151-G040B
up to 20A - up to 3,7kW	5m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-329151-G050B
up to 20A - up to 3,7kW	6m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-329151-G060B
up to 32A - up to 7,4kW	4m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-330151-G040B
up to 32A - up to 7,4kW	5m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-330151-G050B
up to 32A - up to 7,4kW	6m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-330151-G060B
up to 20A - up to 11kW	4m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-331151-G040B
up to 20A - up to 11kW	5m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-331151-G050B
up to 20A - up to 11kW	6m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-331151-G060B
up to 32A - up to 22kW	4m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-332151-G040B
up to 32A - up to 22kW	5m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-332151-G050B
up to 32A - up to 22kW	6m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-332151-G060B

Charging mode 3 - type 1, 3 shell system, cable type: flat



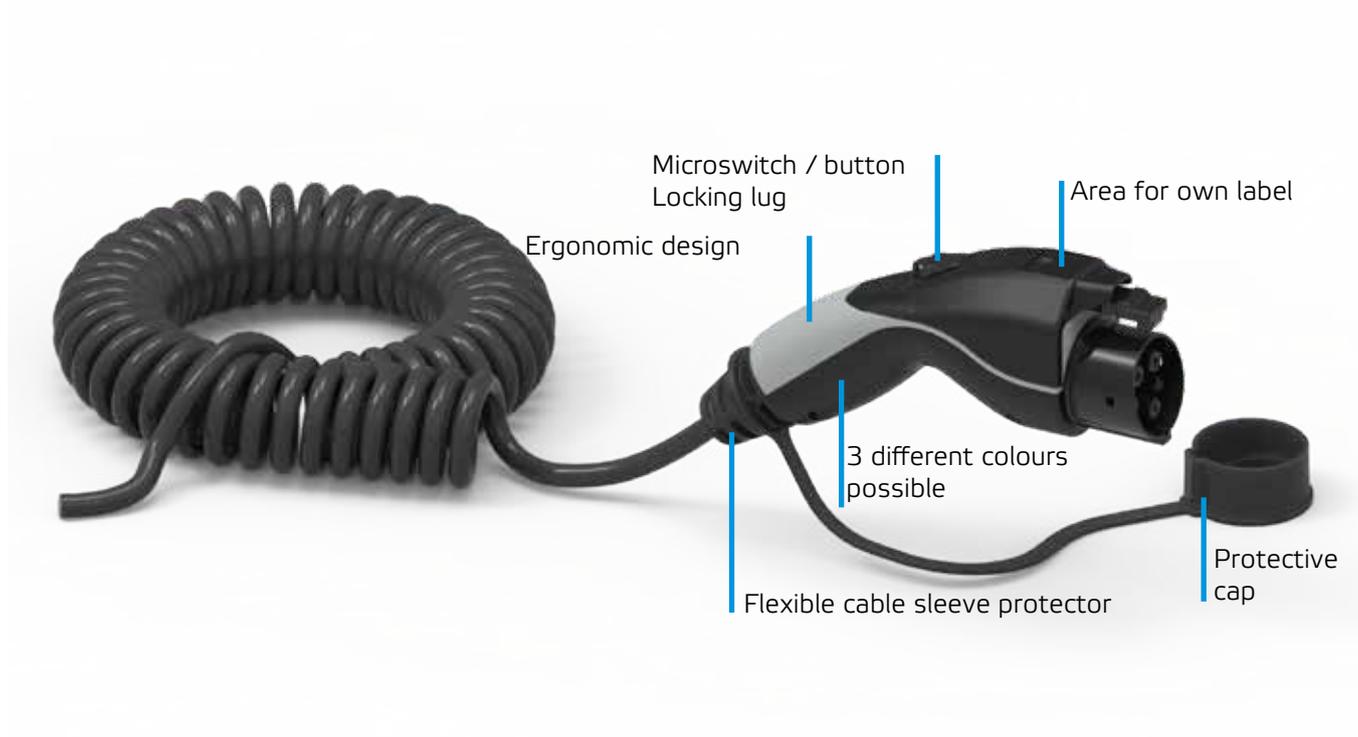
- Vehicle side (EV): type 1 charging connector
- Infrastructure side (EVCS): cut off clean
- Silver-plated contacts

Colour of connector: black - grey - black



Charging capacity	Cable length	Phase	Resistance	Cable variant	Part No.
up to 20A - up to 3,7kW	5m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-322151-050
up to 20A - up to 3,7kW	8m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-322151-080
up to 32A - up to 7,4kW	5m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-323151-050
up to 32A - up to 7,4kW	8m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-323151-080

Charging mode 3 - type 1, 3 shell system, cable type: coiled

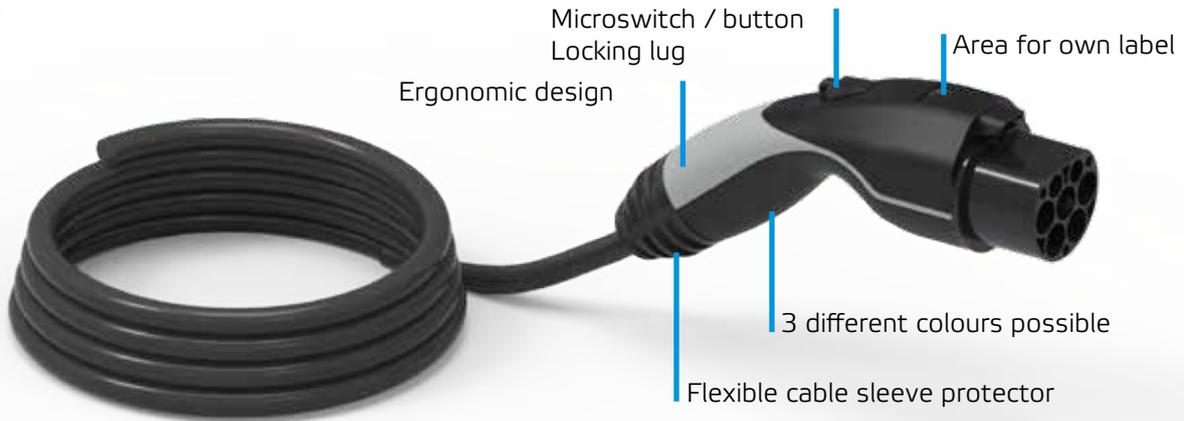


- Vehicle side (EV): type 1 charging connector
- Infrastructure side (EVCS): cut off clean
- Silver-plated contacts

Colour of connector: black - grey - black

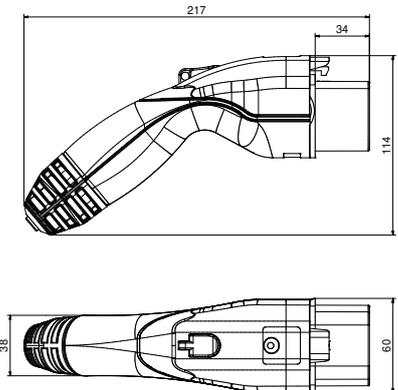
Charging capacity	Working length	Phase	Resistance	Cable variant	Part No.
up to 20A - up to 3,7kW	4m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-322151-G040
up to 20A - up to 3,7kW	5m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-322151-G050
up to 20A - up to 3,7kW	6m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-322151-G060
up to 32A - up to 7,4kW	4m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-323151-G040
up to 32A - up to 7,4kW	5m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-323151-G050
up to 32A - up to 7,4kW	6m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-323151-G060

Charging mode 3 - type GB/T, 3 shell system, cable type: flat



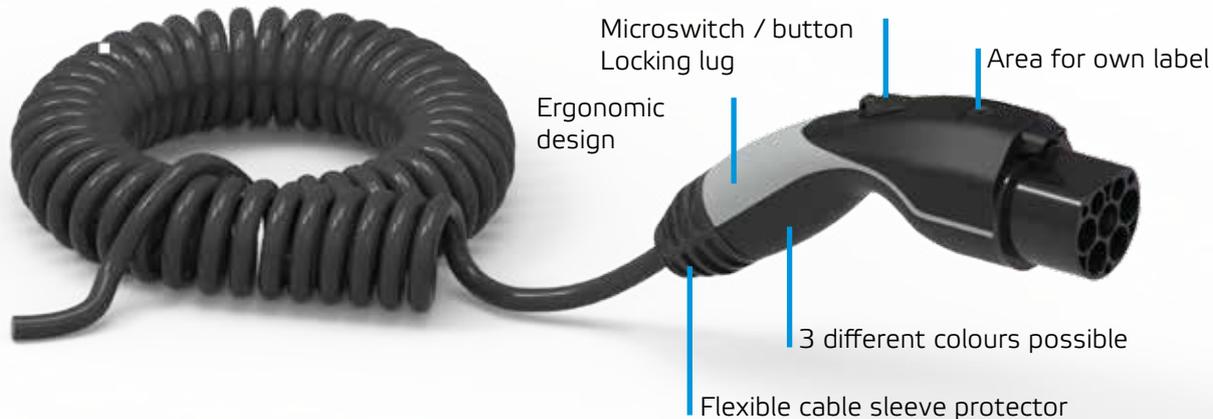
- Vehicle side (EV): type GB/T charging connector
- Infrastructure side (EVCS): cut off clean
- Silver-plated contacts

Colour of connector: black - grey - black



Charging capacity	Cable length	Phase	Resistance	Cable variant	Part No.
up to 20A - up to 3,7kW	5m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-249151-050
up to 20A - up to 3,7kW	8m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-249151-080
up to 32A - up to 7,4kW	5m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-250151-050
up to 32A - up to 7,4kW	8m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-250151-080
up to 20A - up to 11kW	5m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-251151-050
up to 20A - up to 11kW	8m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-251151-080
up to 32A - up to 22kW	5m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-252151-050
up to 32A - up to 22kW	8m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-252151-080

Charging mode 3 - type GB/T, 3 shell system, cable type: coiled



- Vehicle side (EV): type GB/T charging connector
- Infrastructure side (EVCS): cut off clean
- Silver-plated contacts

Colour of connector: black - grey - black

Charging capacity	Working length	Phase	Resistance	Cable variant	Part No.
up to 20A - up to 3,7kW	4m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-249151-G040
up to 20A - up to 3,7kW	5m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-249151-G050
up to 20A - up to 3,7kW	6m	1-phase	680 Ω	3x2,5+1x0,5 mm ²	E-249151-G060
up to 32A - up to 7,4kW	4m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-250151-G040
up to 32A - up to 7,4kW	5m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-250151-G050
up to 32A - up to 7,4kW	6m	1-phase	220 Ω	3G6+1x0,5 mm ²	E-250151-G060
up to 20A - up to 11kW	4m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-251151-G040
up to 20A - up to 11kW	5m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-251151-G050
up to 20A - up to 11kW	6m	3-phase	680 Ω	5G2,5+1x0,5 mm ²	E-251151-G060
up to 32A - up to 22kW	4m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-252151-G040
up to 32A - up to 22kW	5m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-252151-G050
up to 32A - up to 22kW	6m	3-phase	220 Ω	5G6+1x0,5 mm ²	E-252151-G060

Plug holder for charging connector type 1

Version
angled

Part Nr.
E-990



Cable suspension and plug holder for charging connector type 1

- Fixing material not included
- Cable suspension made of metal, black powder-coated

Version
angled

Part Nr.
E-987



Plug holder for charging connector type 2

Version
angled

Part Nr.
E-993



Cable suspension and plug holder for charging connector type 2

- Fixing material not included
- Cable suspension made of metal, black powder-coated

Version
angled

Part Nr.
E-988



Plug holder for charging connector type 2

- With 2x RGB-LED lighting

Version	Part Nr.
Common anode (+12V)	E-9195
Common kathode (-12V)	E-9197



 made
 in
 Germany



Simply. Well. Connected.

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