

# DC charging cable - EV-GBM4C-DC125A-8,0M50ESBK00 - 1627708

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DC charging cable with Vehicle Connector, open cable end, with protective cap, GB/T, GB/T 20234.3-2015, 125 A / 750 V (DC), design line Standard, cable: 8 m, black, straight, NOTE: Cable management may be required., mating face: gray, handle area: gray

## Product Description


DC charging cable with Vehicle Connector and open cable end for fast charging of electric vehicles (EV) with direct current (DC) via GB/T Vehicle Inlets, for installation at charging stations for E-Mobility (EVSE)

## Why buy this product

- ✔ Consistent design of all Phoenix Contact Vehicle Connectors and Infrastructure Plugs
- ✔ Silver-plated surface of the power and signal contacts
- ✔ Certified in accordance with IATF 16949:2016 and ISO 9001:2015
- ✔ Material data available in the IMDS (International Material Data System of the automotive industry)
- ✔ Convenient handling, thanks to the ergonomic handle and additional, rubber grip components
- ✔ Integrated temperature sensors for monitoring the temperature at the power contacts
- ✔ Integrated interlock during charging



## Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 351209
GTIN	4055626351209

## Technical data

### Product definition

Product type	DC charging cable with Vehicle Connector, open cable end, with protective cap
Standards/regulations	GB/T 20234.3-2015
Charging standard	GB/T
Charging mode	Mode 4
Note	NOTE: Cable management may be required.

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## Technical data

### Product definition

	Cable management is required in certain regions if the cable length exceeds 5.0 m (Switzerland) or 7.5 m (USA) (IEC 61851-1).
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### Dimensions

Vehicle connector width	77.00 mm
Vehicle connector height	129.10 mm
Vehicle connector depth	260.40 mm
Conductor length	8 m
Stripping length	300 mm ±20 mm

### Ambient conditions

Ambient temperature (operation)	-30 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Max. altitude	5000 m (above sea level)
Degree of protection	IP55 (plugged in)
	IP54 (Protective cap)

### Electrical properties

Maximum charging power	93.75 kW
Number of power contacts	3 (PE, DC+, DC-)
Rated current of power contacts	125 A
Rated voltage for power contacts	750 V DC
Number of signal contacts	6 (S+, S-, A+, A-, CC1, CC2)
Type of signal transmission	CAN according to IEC 61851-24 Annex B
Resistor coding	1000 Ω (between PE and CC1 / PE and CC2)
Temperature monitoring	2x Pt 1000

### Mechanical properties

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

### Design

Design line	Standard
Housing color	black
Mating face color	gray
Color handle area	gray
Actuating element color	gray
Color protective cap	black
Label	14.1 mm x 44.8 mm (customer logo on request)

### Material

Housing material	Plastic
Material handle area	Soft plastic

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### Technical data

#### Material

Actuating lever material	Metal
Material protective cap	Plastic
Material mating face	Plastic
Flammability rating	V0
Material surface of contacts	Ag

#### Cable

Cable structure	2 x 50 mm <sup>2</sup> + 1 x 16 mm <sup>2</sup> + 2 x 2.5 mm <sup>2</sup> + 9 x 0.5 mm <sup>2</sup>
Wiring class	Class 6
External cable diameter	28 mm ±0.2 mm
Type of conductor	straight
Outer sheath, material	PUR
External sheath, color	black
Minimum bending radius	420 mm (15 x diameter)

#### Locking

Locking type	Locking option for actuating lever with actuators integrated in the Vehicle Connector
Locking voltage	13.2 V

#### Temperature sensors

Type of sensor	Pt 1000
Standards/regulations	DIN EN 60751
Recommended measured current	1 mA (1 V at 0°C)
Tolerance at the sensor with the recommended measured current	±1K
Temperature range	-50 °C ... 130 °C
Temperature coefficient (TCR)	3850 ppm/K
Long-term stability (max. R0-Drift)	0.06 % (After 1000 hours at 130°C)
Shutdown temperature	90 °C equivalent to a Pt 1000 value of 1346.5 Ω

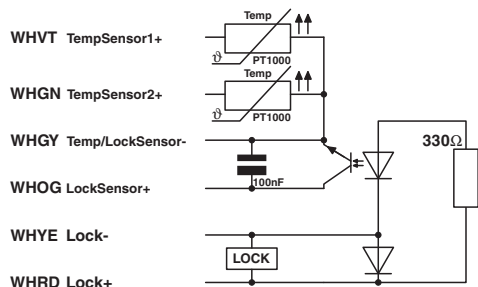
#### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

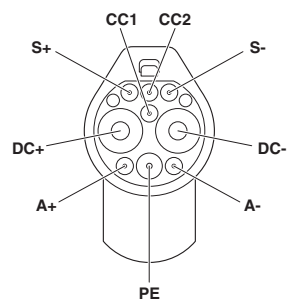
### Drawings

# DC charging cable - EV-GBM4C-DC125A-8,0M50ESBK00 - 1627708

Block diagram



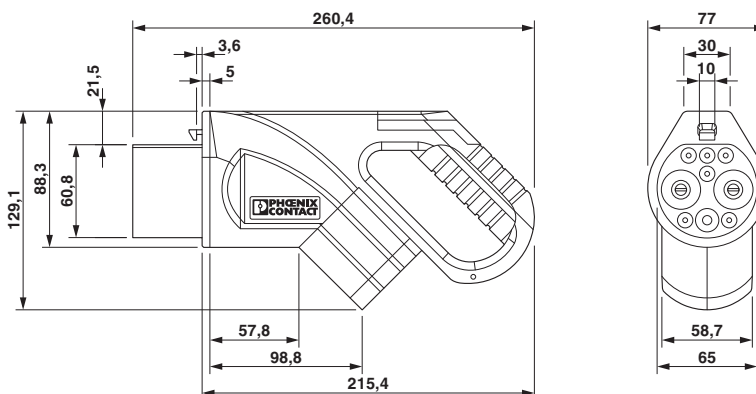
Schematic diagram



Pin assignment of the Vehicle Connector

Block diagram GB/T DC

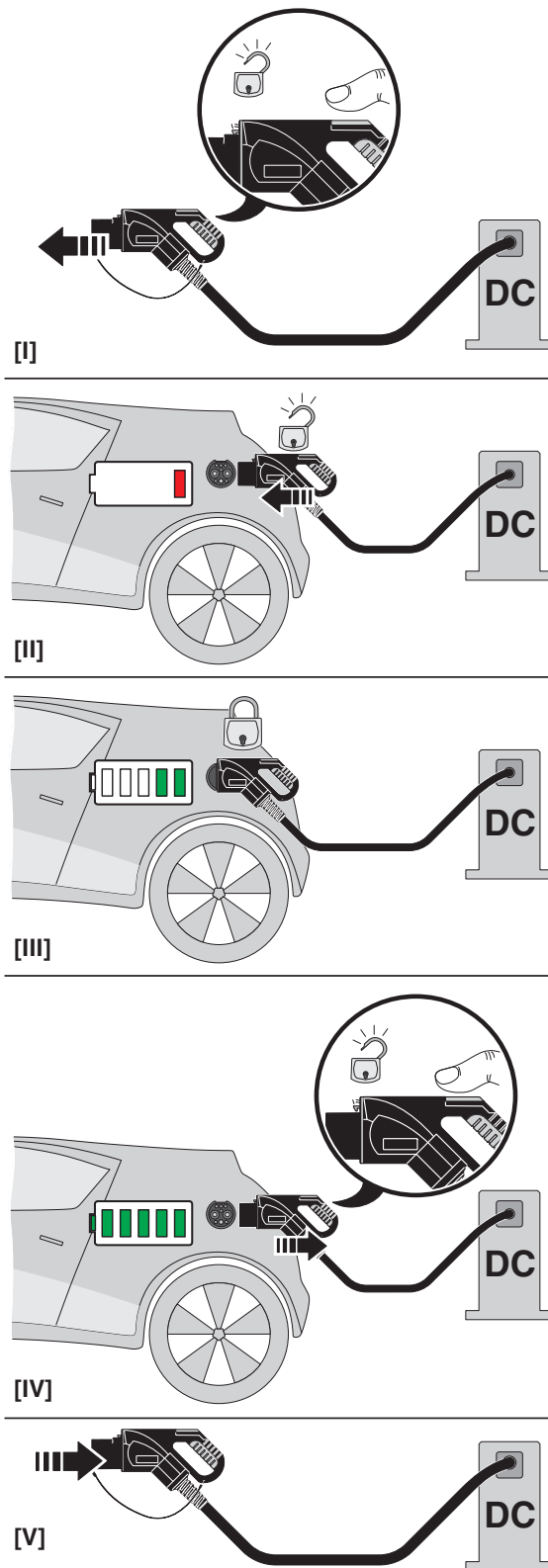
Dimensional drawing



Ensure that the vehicle connector is placed in an appropriate resting position that ensures a minimum protection rating of IP24 in accordance with IEC 61851-1 for the entire time between charging. Use the dimensions of the vehicle connector to create this type of resting position. Detailed specifications can also be found in the download area.

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Schematic diagram



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