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DC charging cable - EV-GBM4C-DC75A-15,0M16ESBK00 - 1627500

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, DC charging cable with Vehicle Connector, open cable end, with protective cap, GB/T, GB/T 20234.3-2015, 75 A / 750 V (DC), cable: 15 m, black, straight, NOTE: Cable management may be required.

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)

Your advantages

- ☑ 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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 320649
GTIN	4055626320649

Technical data

Product definition

Application	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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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).

Dimensions

Vehicle connector width	77.00 mm
Vehicle connector height	129.10 mm
Vehicle connector depth	260.40 mm
Conductor length	15 m
Stripping length	130 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; when plugged in and ready to operate, the degree of protection is only ensued if both plug-in components are original products from Phoenix Contact or suitable standard-compliant products)
	IP54 (Protective cap)

Electrical properties

Maximum charging power	56.25 kW
Number of power contacts	3 (PE, DC+, DC-)
Rated current of power contacts	75 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
Note on the connection method	Crimp connection, cannot be disconnected
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

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Material

Housing material	Plastic
Material handle area	Soft plastic
Actuating lever material	Metal
Material protective cap	Plastic
Material mating face	Plastic
Flammability rating	V0
Material surface of contacts	Ag

Cable

Cable structure	3 x 16 mm² + 2 x 2.5 mm² + 9 x 0.5 mm²
Wiring class	Class 5
External cable diameter	20.2 mm ±0.2 mm
Type of conductor	straight
Outer sheath, material	PUR
External sheath, color	black
Minimum bending radius	202 mm (10x 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

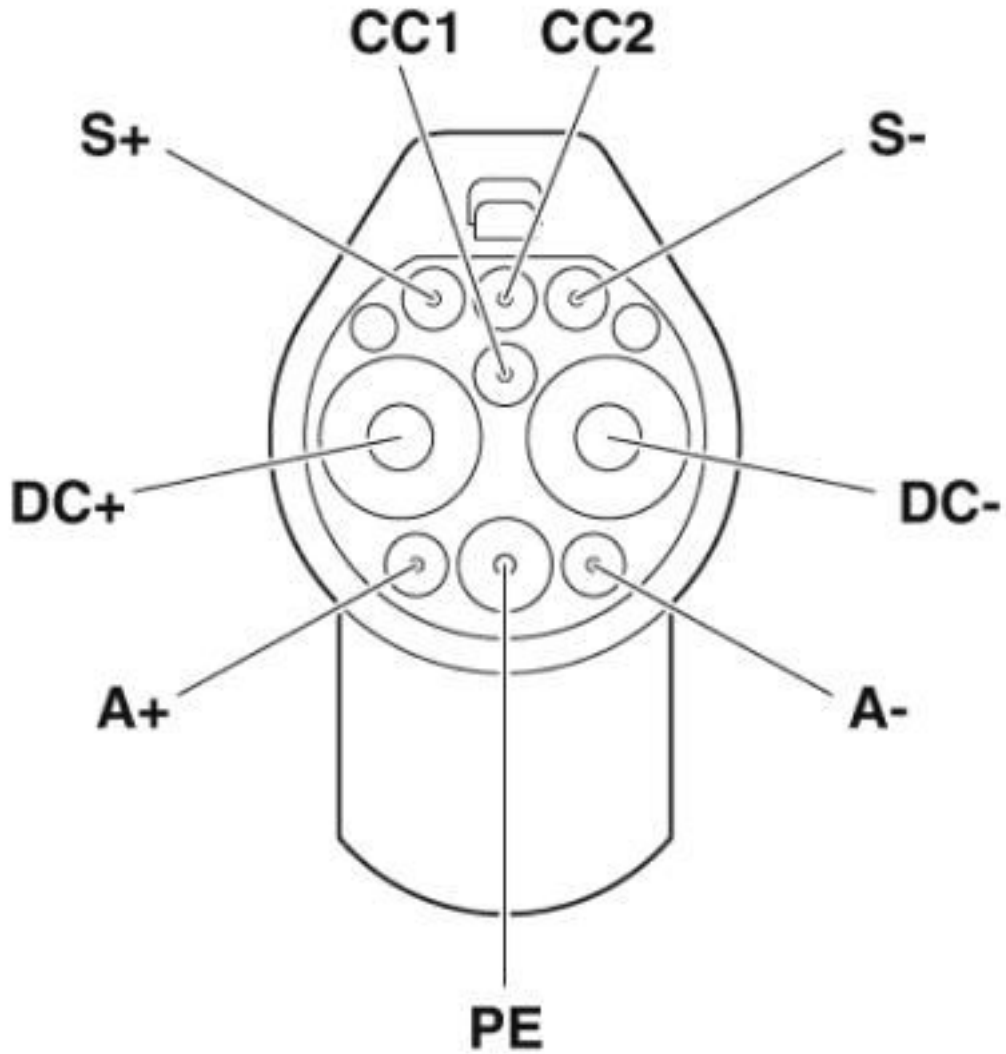# DC charging cable - EV-GBM4C-DC75A-15,0M16ESBK00 - 1627500
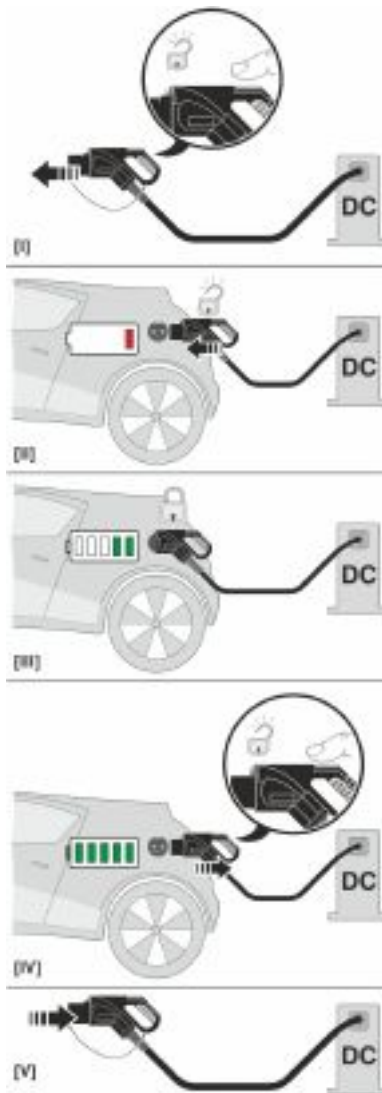
Schematic diagram

Operating instructions

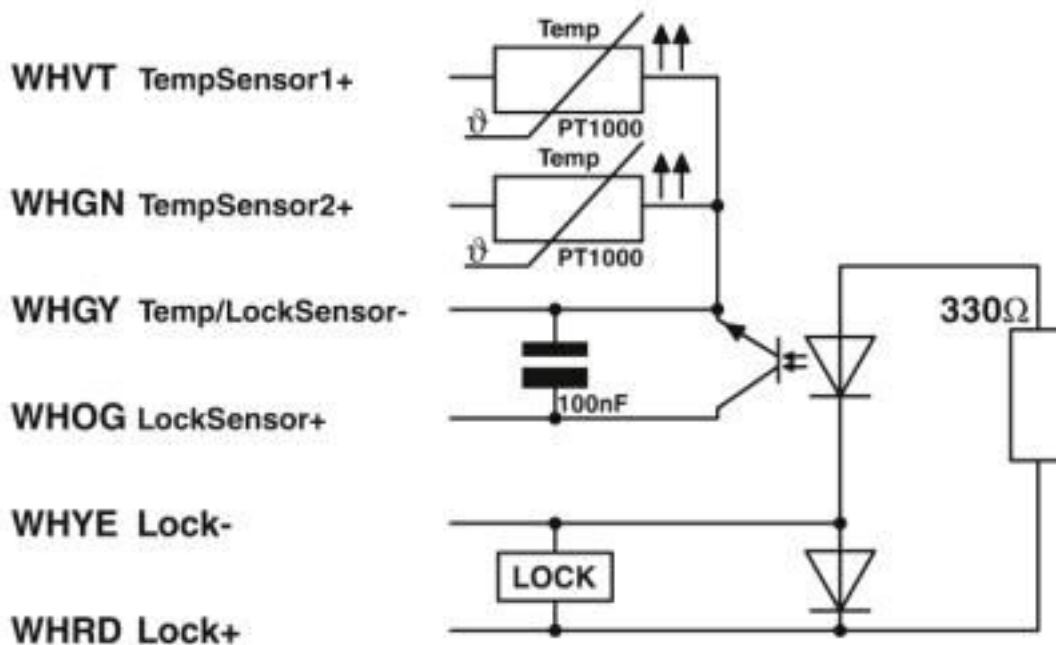# DC charging cable - EV-GBM4C-DC75A-15,0M16ESBK00 - 1627500

Schematic diagram

CC1   **CC2**

S+   **S-**

DC+   **DC-**

A+   **A-**

PE

Pin assignment of the Vehicle Connector

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Block diagram

WHVT TempSensor1+

WHGN TempSensor2+

WHGY Temp/LockSensor-

WHOG LockSensor+

WHYE Lock-

WHRD Lock+

Temp
PT1000

Temp
PT1000

100nF

330Ω

LOCK

Block diagram GB/T DC

Dimensional drawing

260,4

3,6

5

21,5

129,1

88,3

60,8

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57,8

98,8

215,4

77

30

10

58,7

65
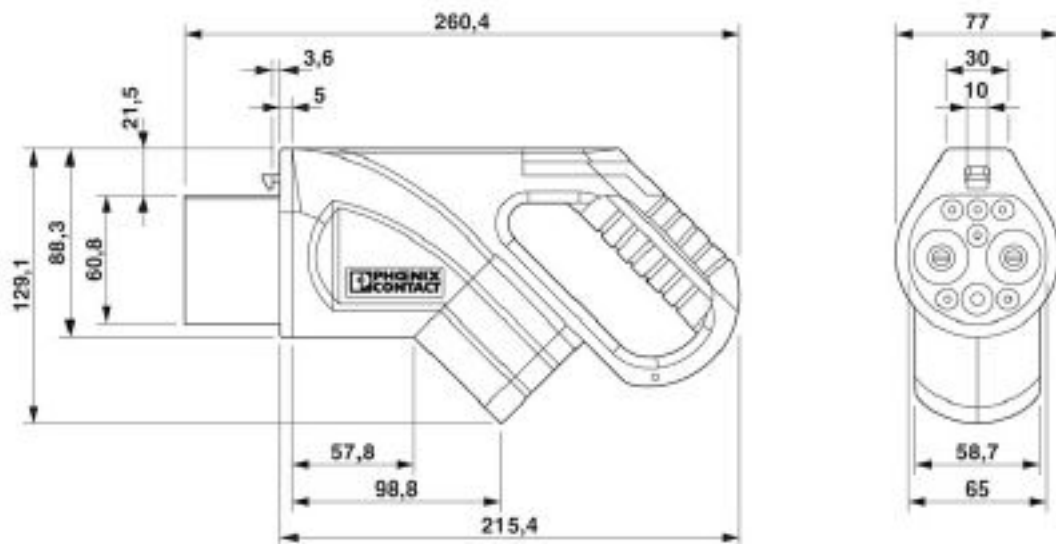
Ensure that the vehicle connector is placed in an appropriate resting position that ensures a minimum protection rating of IP24 in accordance with IEC 61851-1 for the entire time between charging. Use the dimensions of the vehicle connector to create this type of resting position. Detailed specifications can also be found in the download area.

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Classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27143400
eCl@ss 6.0	27143400
eCl@ss 7.0	27449001
eCl@ss 8.0	27449001

ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC002061
ETIM 5.0	EC002839
ETIM 6.0	EC002897

UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522
UNSPSC 19.0	39121522

Accessories

Accessories

Park position

Park position - EV-GBDC-PARK-R - 1623496

Park position, Retainer for Vehicle Connector as parking position at charging stations (EVSE), GB/T, GB/T 20234.3, Front mounting

Park position - EV-GBDC-PARK-SW - 1623497

Park position, Retainer for Vehicle Connector as parking position at charging stations (EVSE), GB/T, GB/T 20234.3, Front mounting

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Accessories

Park position - EV-GBDC-PARK - 1623770

Park position, Retainer for Vehicle Connector as parking position at charging stations (EVSE), GB/T, GB/T 20234.3, Front mounting

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