EV-GBG4C-DC250A-4,0M70ESBK01 - DC charging cable

1085604

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CHARX connect standard, GB/T, DC charging cable, 250 A permanent, 1000 V DC, with vehicle charging connector and open cable end, cable: 4 m, black, straight, with protective cap, with analog temperature sensors, no liquid cooling, housing: black, gray, PHOENIX CONTACT logo, GB/T 20234.1-2015, GB/T 20234.3-2015, for charging electric vehicles (EV) with direct current (DC)

Product description

DC charging cable with vehicle charging connector and free cable end for fast charging of electric vehicles (EV) with direct current (DC) via GB/T vehicle charging inlets, for installation at charging stations for e-mobility (EVSE)

Your advantages

- Complete product range
- The right charging cable for every application, from the carport to the charging park
- Convenient handling due to the ergonomic design
- Available with your logo on request - for consistent branding of your charging station
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- Safe against overheating with temperature measurement at every DC power contact

Commercial data

Item number	1085604
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	XWB
Product key	XWBMEF
GTIN	4055626874234
Weight per piece (including packing)	15,400 g
Weight per piece (excluding packing)	15,400 g
Customs tariff number	85444290
Country of origin	CN

Technical data

Product properties

Product type	DC charging cable
Product family	CHARX connect standard
Type	DC charging cable
	with vehicle charging connector and open cable end
Design	with protective cap
	with analog temperature sensors
	no liquid cooling
Charging standard	GB/T
Charging mode	Mode 4
Affixed logo	PHOENIX CONTACT logo

Electrical properties

Note on the connection method	Crimp connection, cannot be disconnected

Charging power and current (DC charging)

Type of charging current	DC
Charging current	250 A DC
Charging power	250 kW
Rated voltage	1000 V

Pin assignment (Power contacts)

Number	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
Rated current	250 A

Pin assignment (Signal contacts)

Number	6 (S+, S-, A+, A-, CC1, CC2)
Rated voltage	30 V
Rated current	20 A ((A+, A-))
Coding	1000 Ω (between PE and CC1 / PE and CC2)

Temperature sensors (Pt 1000)

Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	Sensor for the DC contacts
Switch-off temperature	90 °C ±1 K (equivalent to a Pt 1000 value of 1346.5 Ω)
Long-term stability	0.06 % (after 1000 hours at 130 °C)
Recommended measured current	1 mA (1 V at 0°C)
Coefficient	3850 ppm/K
Ambient temperature	-50 °C ... 130 °C (Operation)

Dimensions

Vehicle charging connector

Width	77 mm
Height	137.8 mm
Depth	279.4 mm

Material specifications

Color (Housing)	black (9005)
Color (Handle area)	gray (7042)
Color (Mating face)	black (9005)
Color (Protective cap)	black (9005)
Color (Cable)	black (9005)
Material (Vehicle charging connector)	Plastic
Material (Contact surface)	Silver
Note	The color appearance and gloss level of the charging cable may vary.

Cable/line

Cable length	4 m
Wiring standards/regulations	GB/T 33594-2017
Wiring certifications	CQC1105-2015
Cable type	Class 5/6
Cable type	straight
Cable structure	2 x 70 mm² + 1 x 25 mm² + 2 x 4 mm² + (2 x 0.75 mm²) P + 10 x 0.75 mm²
External cable diameter	34.90 mm ±0.4 mm
Outer sheath, material	TPU
Stripping length of the sheath	150 mm ±20 mm
Stripping length	150 mm ±20 mm
Cable resistance	≤ 0.000272 Ω/m (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 174.5 mm (5x diameter)
Cable length	4 m
Stripping length	150 mm ±20 mm
External cable diameter	34.90 mm ±0.4 mm
Cable type	Class 5/6
Wiring certifications	CQC1105-2015
Wiring standards/regulations	GB/T 33594-2017
Cable resistance	≤ 0.000272 Ω/m (based on a power core, at an ambient temperature of 20°C)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N

Withdrawal force	< 100 N

Environmental and real-life conditions

Ambient conditions

Degree of protection (Vehicle charging connector)	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)
Degree of protection (Protective cover)	IP54
Ambient temperature (operation)	-30 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	5000 m (above sea level)

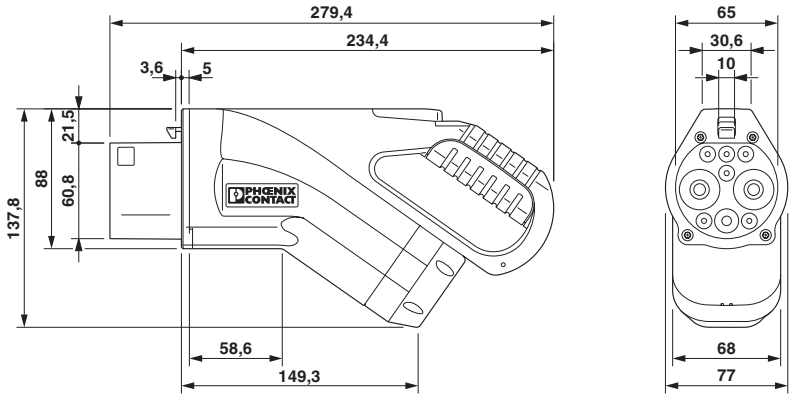
Standards and regulations

Standards

Standards/regulations	GB/T 20234.1-2015, GB/T 20234.3-2015

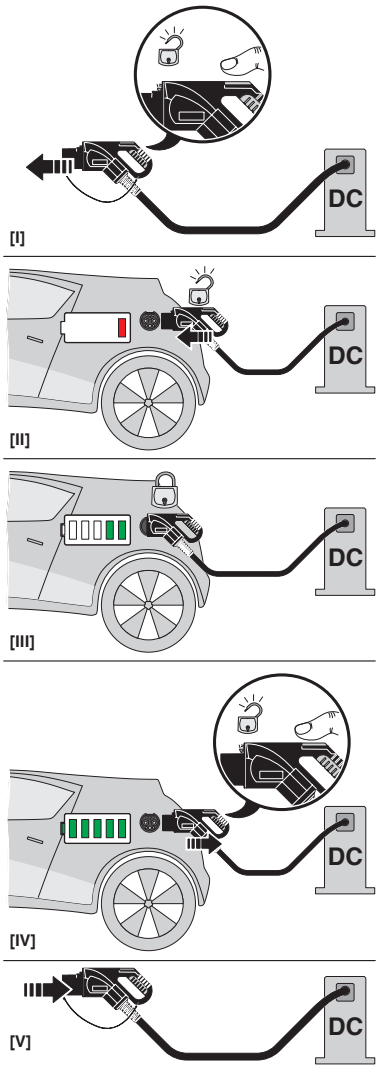
Drawings

Dimensional drawing



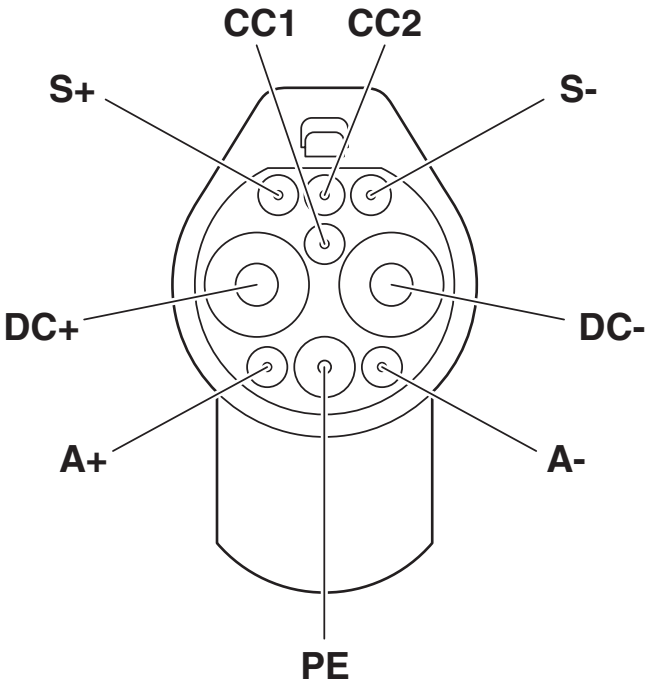
Make sure that the vehicle charging connector is placed in an appropriate charging connector holder, which ensures a minimum protection rating of IP24 in accordance with IEC 61851-1, for the entire time between charging. To create this charging connector holder, use the dimensions of the vehicle charging connector. Detailed dimensions can also be found in the Download area.

Schematic diagram



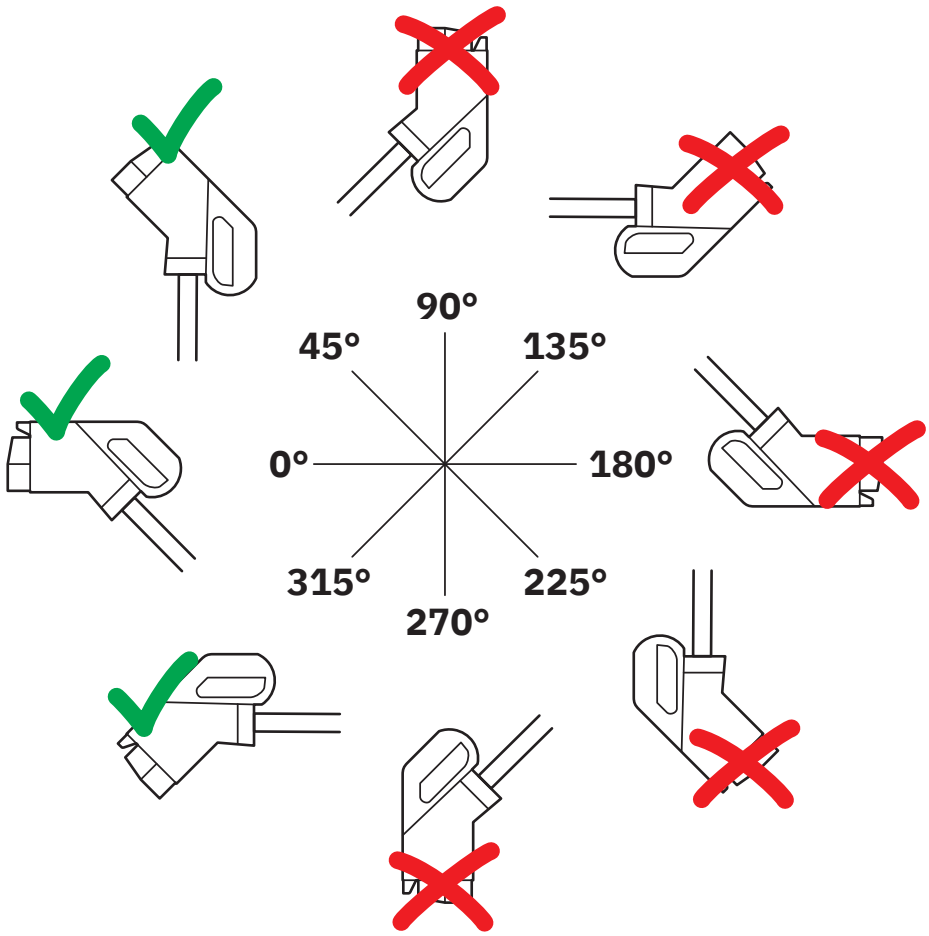
Operating instructions

Schematic diagram



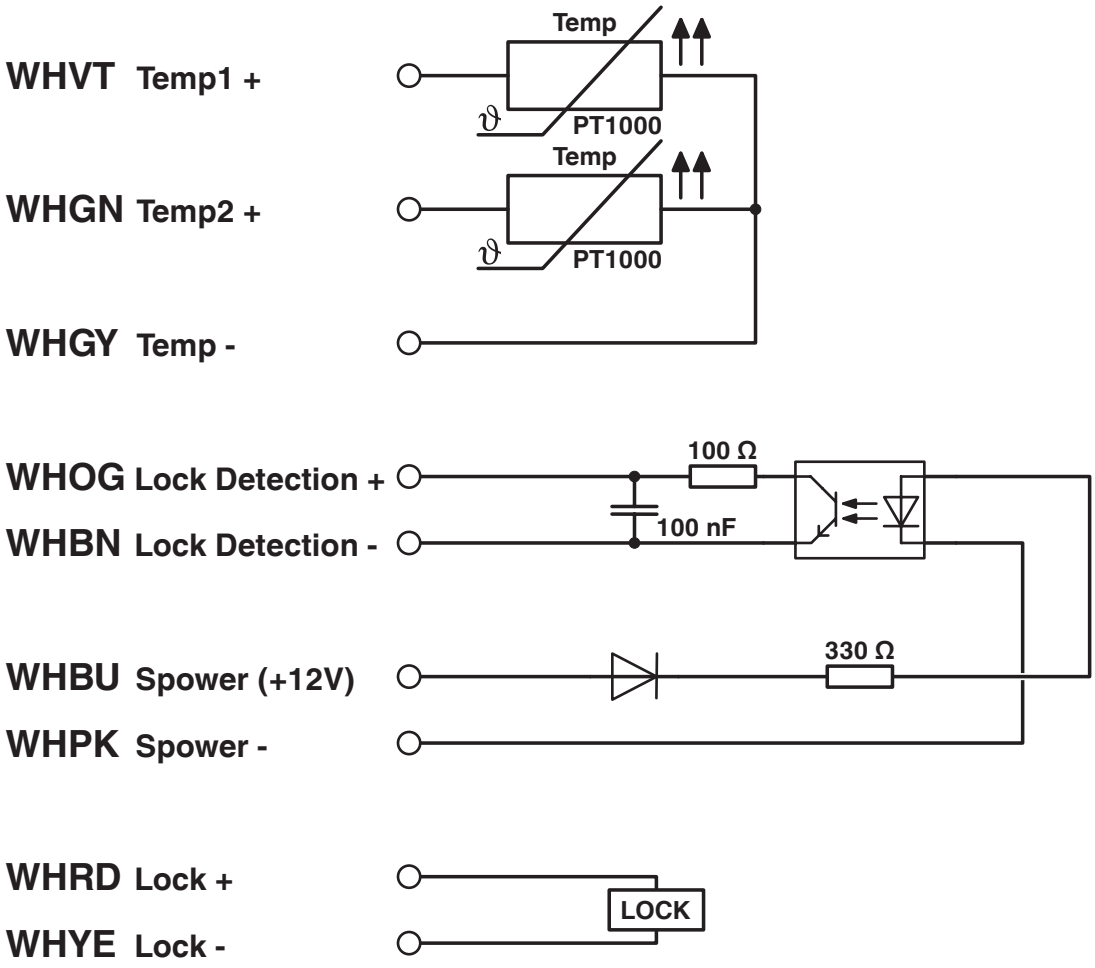
Pin assignment of the Vehicle Connector

Schematic diagram



The resting position must be installed in the charging station such that the user cannot hang up the vehicle connector upside down (90° to 270°). However, positions rotated upward (45°) or downward (315°) are options for a resting position.

Block diagram



Block diagram GB/T DC

Classifications

ECLASS

ECLASS-13.0	27144705
ECLASS-15.0	27144705

ETIM

ETIM 10.0	EC002897

UNSPSC

UNSPSC 21.0	39121500

Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-10
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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