EV-GBG3C-1AC32A-7,5M6,0ESBK01 - AC charging cable

1003678

https://www.phoenixcontact.com/gb/products/1003678

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CHARX connect comfort, AC charging cable, with vehicle charging connector and open cable end, For charging electric vehicles (EV) with alternating current (AC) via GB/T vehicle charging inlets, with protective cap, GB/T, GB/T 20234.2-2015, GB/T 18487.1-2015, 32 A / 440 V (AC), housing: black, gray, PHOENIX CONTACT logo, cable: 7.5 m, black, straight, NOTE: Cable management may be required.

Product description

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

Your advantages

- Complete product range
- Convenient handling due to the ergonomic, triple award-winning design
- Available with your logo on request – for consistent branding of your charging station
- Longitudinal water tightness reliably prevents water ingress
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- Tested in accordance with automotive standards LV124, LV214, and LV215-2
- Tested in accordance with EV Ready 37 requirements

Commercial data

Item number	1003678
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	XWBAAF
Product key	XWBAAF
GTIN	4055626472317
Weight per piece (including packing)	2,266 g
Weight per piece (excluding packing)	2,266 g
Customs tariff number	85444290
Country of origin	PL

Technical data

Product properties

Product type	AC charging cable
Product family	CHARX connect comfort
Application	For charging electric vehicles (EV) with alternating current (AC) via GB/T vehicle charging inlets
	for installation at charging stations for electromobility (EVSE)
Type	AC charging cable
	with vehicle charging connector and open cable end
Design	with protective cap
Affixed logo	PHOENIX CONTACT logo
Charging mode	Mode 3, Case C
Charging standard	GB/T

Electrical properties

Type of signal transmission	Pulse width modulation
Note on the connection method	Crimp connection, cannot be disconnected
Coding	680 Ω (between PE and CC)
Type of charging current	AC single-phase
Charging power	8 kW
Charging current	32 A

Power contact

Number	3 (L, N, PE)
Rated voltage	440 V
Rated current	32 A

Signal contact

Number	2 (CP, CC)
Rated voltage	30 V AC
Rated current	2 A

Dimensions

Vehicle charging connector

Width	60 mm
Height	112.4 mm
Depth	219.1 mm

Material specifications

Color (Housing)	black (9005)
Color (Handle area)	black (9005)
Color (Actuating element)	black (9005)
Color (Mating face)	black (9005)

Color (Protective cap)	black (9005)
Color (Cable)	black (9005)
Material (Vehicle charging connector)	Plastic
Material (Cable outer sheath)	TPE-U
Material (Contact surface)	Silver

Cable/line

Cable length	7.5 m
Wiring standards/regulations	prEN 50620/DIN EN 50620
Wiring certifications	VDE
Cable weight	max. 305 kg/km
Cable type	Class 5
Cable type	straight
Cable structure	3 x 6.0 mm² + 1 x 0.5 mm²
External cable diameter	12.8 mm ±0.4 mm
Outer sheath, material	TPE-U
Stripping length of the sheath	70 mm ±5 mm
Cable resistance	≤ 0.0033 Ω/m (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 96 mm (7.5x diameter)
Cable length	7.5 m
Stripping length	70 mm ±5 mm
External cable diameter	12.8 mm ±0.4 mm
Cable type	Class 5
Wiring certifications	VDE
Wiring standards/regulations	prEN 50620/DIN EN 50620
Cable resistance	≤ 0.0033 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 inlet)	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 (Infrastructure charging plug)	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 cap)	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

Connection in accordance with standard

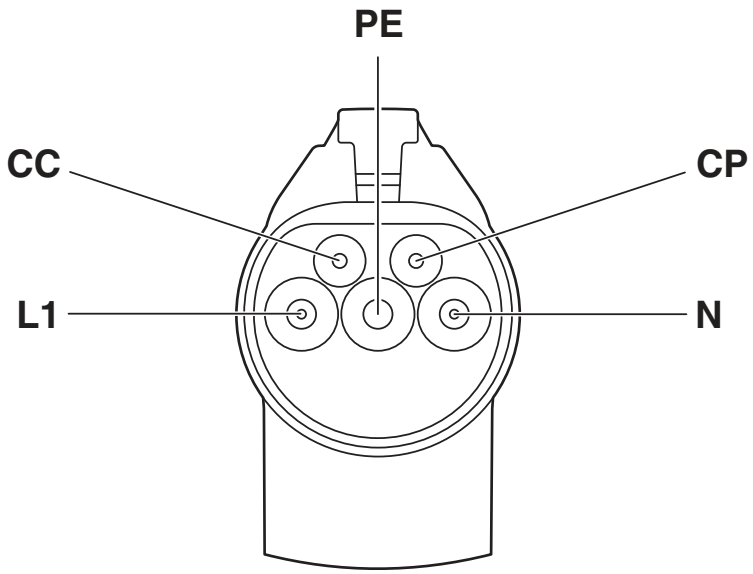
Normative cable length restrictions	NOTE: Cable management may be required.
	Cable management is required in the US if the cable length exceeds 7.5 m (IEC 61851-1).

Standards

Standards/regulations	GB/T 20234.2-2015
	GB/T 18487.1-2015

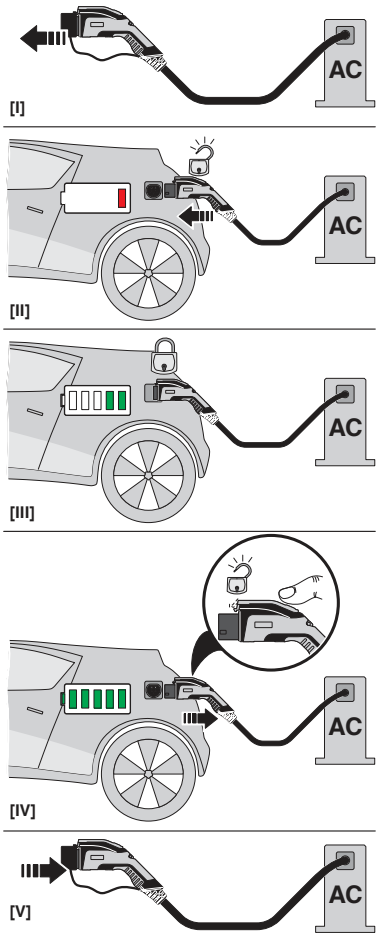
Drawings

Schematic diagram



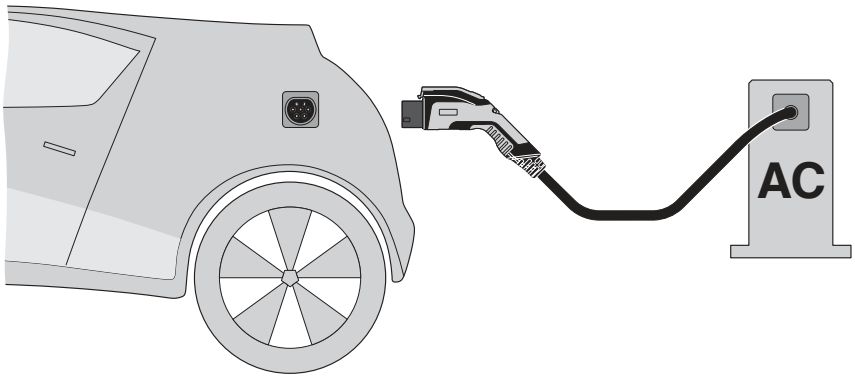
Pin assignment of the Vehicle Connector

Schematic diagram



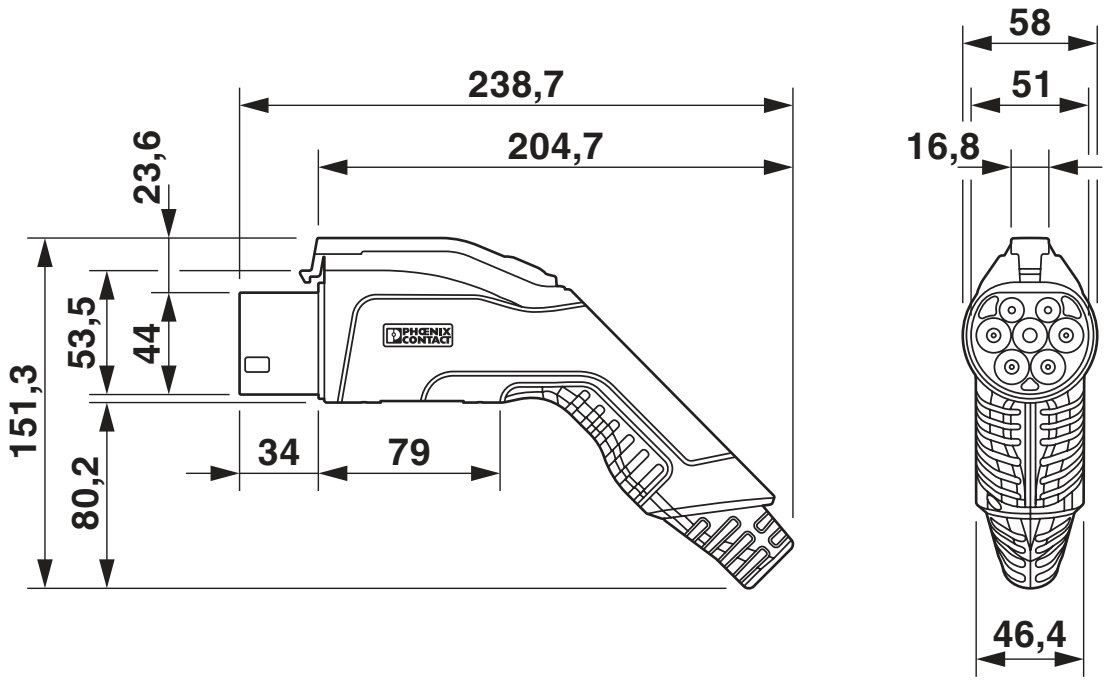
Operating instructions

Schematic diagram



Terminology definition

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.

Classifications

ECLASS

ECLASS-11.0	27144705
ECLASS-12.0	27144705
ECLASS-13.0	27144705

ETIM

ETIM 8.0	EC002897

UNSPSC

UNSPSC 21.0	39121500

Environmental product compliance

REACh SVHC	Lead 7439-92-1

China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer’s declaration available under “Downloads”

Accessories

EV-GBAC-PARK - Charging connector holder

1624142

https://www.phoenixcontact.com/gb/products/1624142

CHARX connect, Charging connector holder, Accessories, for vehicle charging connectors on charging stations (EVSE), GB/T, GB/T 20234.2, Front mounting, housing: black

G-INS-M25-M68N-PNES-BK - Cable gland

1411134

https://www.phoenixcontact.com/gb/products/1411134

Cable gland, material for screw connection: PA, external cable diameter 11 mm . .. 17 mm, shielding: no, connecting thread: M25 x 1.5, color: jet black RAL 9005

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