

EV-GBG3C-3AC16A-5,0M2,5ESBK01 - AC charging cable



1627600

<https://www.phoenixcontact.com/pl/produkty/1627600>

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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, housing: black, gray, PHOENIX CONTACT logo, cable: 5 m, black, straight

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	1627600
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	XWBAAF
Product Key	XWBAAF
Catalog Page	Page 27 (C-7-2019)
GTIN	4055626342818
Weight per Piece (including packing)	1,891 g
Weight per Piece (excluding packing)	1,850 g
Customs tariff number	85444290
Country of origin	PL

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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
Locking type	No locking option for U-lock
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 3-phase
Charging power	12.39 kW
Charging current	16 A

Power contact

Number	5 (L1, L2, L3, N, PE)
Rated voltage	440 V
Rated current	16 A

Signal contact

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

Dimensions

Vehicle charging connector

Width	55.9 mm
Height	85.4 mm
Depth	207.6 mm

Vehicle charging connector

Width	55.9 mm
Height	85.4 mm
Depth	207.6 mm

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Material specifications

Color (Housing)	black (9005)
	black (9005)
	black (9005)
	black (9005)
	black (9005)
Material (Vehicle charging connector)	Plastic
	TPE-U
	Silver

Cable/line

Cable length	5 m
Wiring standards/regulations	prEN 50620 / DIN EN 50620
Wiring certifications	VDE
Cable weight	max. 250 kg/km
Cable type	Class 5
Cable type	straight
Cable structure	5 x 2.5 mm ² + 1 x 0.5 mm ²
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	≤ 0.00798 Ω/m (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 192 mm (15x diameter)
Cable length	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	≤ 0.00798 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

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)
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	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 20234.2-2015
	GB/T 18487.1-2015

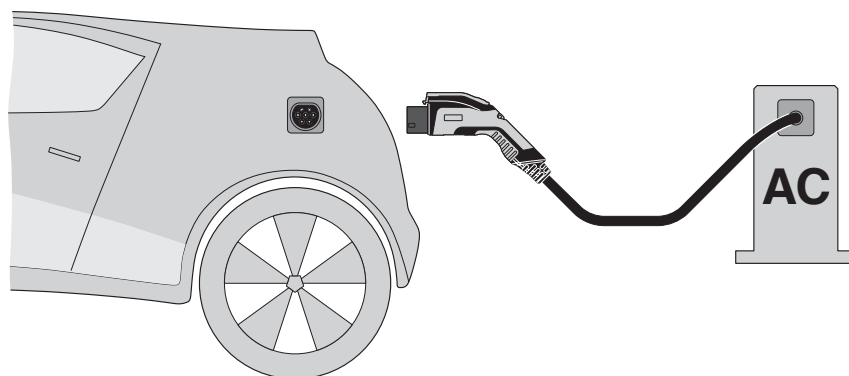
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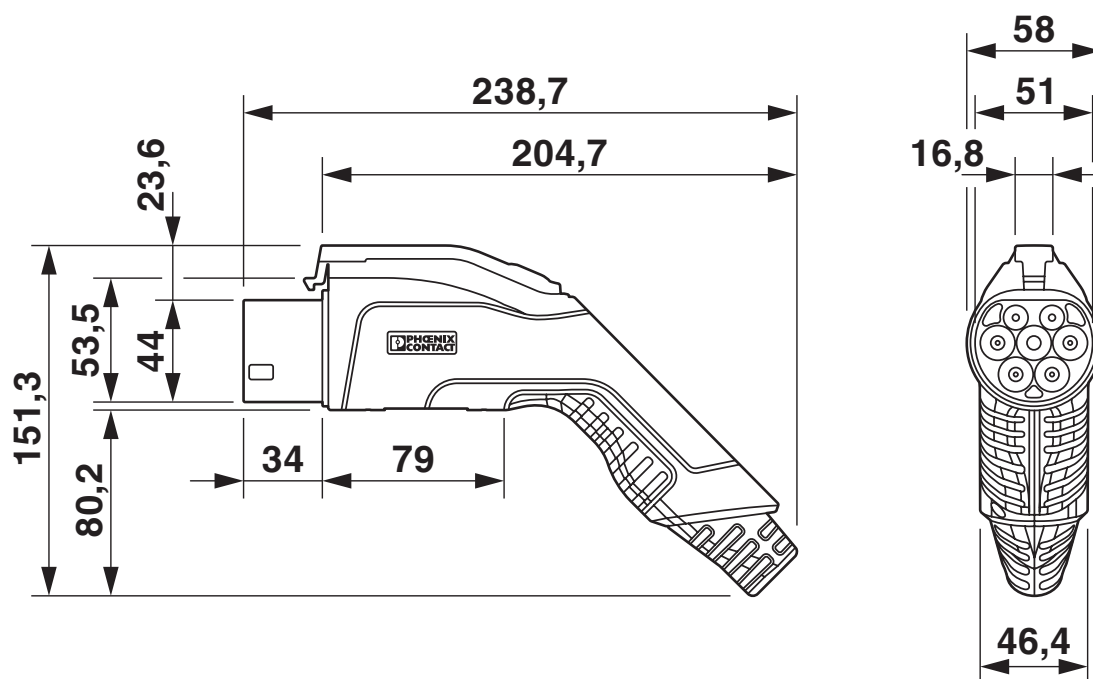
Drawings

Schematic diagram



Terminology definition

Dimensional drawing



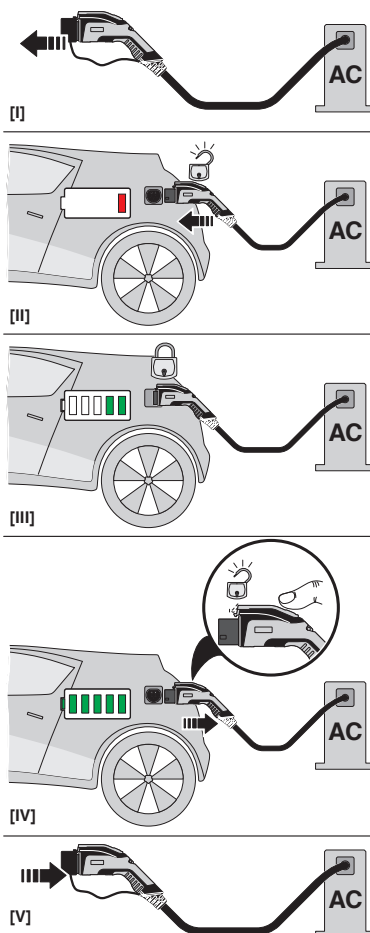
Make sure that the vehicle charging connector is placed in an appropriate charging connector holder, which ensures a minimum protection rating of IP24 in accordance with IEC 61851-1, for the entire time between charging. To create this charging connector holder, use the dimensions of the vehicle charging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

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Schematic diagram



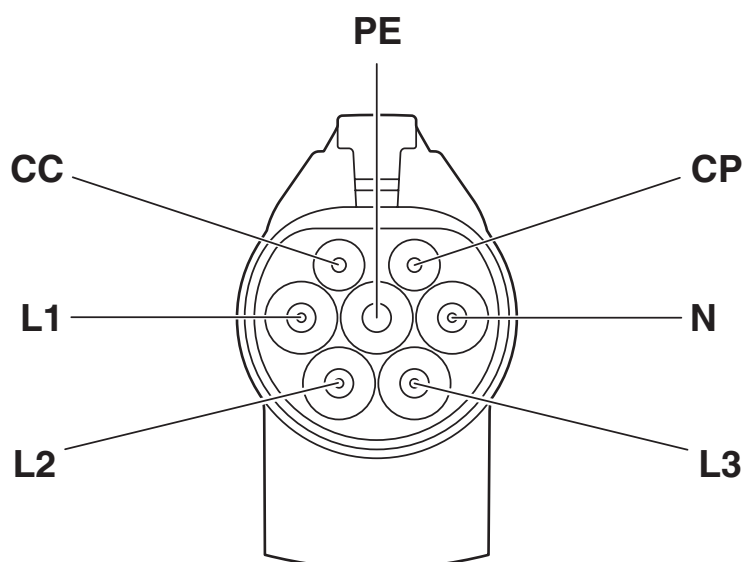
Operating instructions

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Schematic diagram



Pin assignment of the Vehicle Connector

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Classifications

ECLASS

ECLASS-9.0	27144705
ECLASS-10.0.1	27144705
ECLASS-11.0	27144705

ETIM

ETIM 8.0	EC002897
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UNSPSC

UNSPSC 21.0	39121500
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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"

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Accessories

EV-GBAC-PARK - Charging connector holder

1624142

<https://www.phoenixcontact.com/pl/produkty/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/pl/produkty/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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VAL-EV-T1/T2 264/12.5/3+1 - Lightning/surge arrester type 1/2

1180149

<https://www.phoenixcontact.com/pl/produkty/1180149>



CHARX protect advanced: Plug-in lightning surge/surge protective device, in accordance with Type 1/2 / Class I/II, for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE). Specifically designed for use in e-mobility.

VAL-EV-T1/T2 264/12.5/3+1-R - Lightning/surge arrester type 1/2

1180150

<https://www.phoenixcontact.com/pl/produkty/1180150>



CHARX protect advanced: Plug-in lightning surge/surge protective device, in accordance with Type 1/2 / Class I/II, for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE), with remote indication contact. Specifically designed for use in e-mobility.

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VAL-EV-T2 280/3+1 - Type 2 surge arrester

1180144

<https://www.phoenixcontact.com/pl/produkty/1180144>

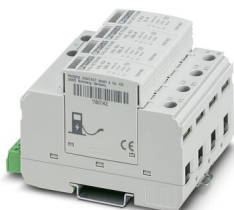


CHARX protect basic: Plug-in surge protective device, in accordance with Type 2/Class II, for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE). Specifically designed for use in e-mobility.

VAL-EV-T2 280/3+1-R - Type 2 surge arrester

1180145

<https://www.phoenixcontact.com/pl/produkty/1180145>



CHARX protect basic: Plug-in surge protective device, in accordance with Type 2/Class II, for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE), with remote indication contact. Specifically designed for use in e-mobility.

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