AC charging cable - EV-T2G3C-1AC20A-4,0M2,5EHBK01

1627126

https://www.phoenixcontact.com/gb/products/1627126

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CHARX connect, AC charging cable with vehicle charging connector and open cable end, Housing color black-gray, with protective cap, for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets, for installation at charging stations for electromobility (EVSE), Type 2, IEC 62196-2, 20 A / 250 V (AC), C-Line, “PHOENIX CONTACT” logo, cable: 4 m, black, spiraled, housing:

Product Description

AC charging cable with Vehicle Connector and open cable end for charging electric vehicles (EV) with alternating current (AC) via type 2 Vehicle 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
- Laser-marked mating face in accordance with DIN EN 17186

Commercial Data

Item number	1627126
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	XWBAAC
Product Key	XWBAAC
Catalog Page	Page 22 (C-7-2019)
GTIN	4055626299419
Weight per Piece (including packing)	1,590.7 g
Weight per Piece (excluding packing)	1.155 g
Country of origin	PL

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Technical Data

Product properties

Product type	AC charging cable
Application	for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets
	for installation at charging stations for electromobility (EVSE)
Type	AC charging cable
	with vehicle charging connector and open cable end
	Housing color black-gray
Design	with protective cap
Affixed logo	“PHOENIX CONTACT” logo
Charging mode	Mode 3, Case C
Charging standard	Type 2

Electrical properties

Number of phases	1
Type of signal transmission	Pulse width modulation
Type of charging current	AC single-phase
Note on the connection method	Crimp connection, cannot be disconnected
Coding	680 Ω (between PE and PP)
Maximum capacity	5 kW
Type of charging current	AC single-phase
	5 kW
	20 A

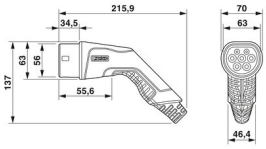
Power contact

Number	3 (L1, N, PE)
Rated voltage	250 V AC
Rated current	20 A

Signal contact

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

Dimensions

Dimensional drawing	
Width	70 mm (Vehicle charging connector)
Height	137 mm (Vehicle charging connector)

Depth	215.9 mm (Vehicle charging connector)

Material specifications

Housing material	Plastic
Material of grip body	Soft plastic
Material protective cap	Soft plastic
Material mating face	Plastic
Material surface of contacts	Ag

Design

Design	C-Line
Color Housing	black
Color Connection profile	black
Color Handle area	gray
Color Protective cap	black
Customer variations	On request

Cable / line

Cable length	4 m
Wiring standards/regulations	prEN 50620 / DIN EN 50620
Wiring certifications	VDE
Conductor type	spiraled
Conductor structure	3 x 2.5 mm² + 1 x 0.5 mm²
Cable type	Class 5
External cable diameter	10.2 mm ±0.3 mm
Outer sheath, material	TPE-U
External sheath, color	black
Block length	0.68 m ±10 %
Coil diameter	45 mm ±10 %
Effective length	max. 4 m ±5 %
Conductor resistance	≤ 0.00798 Ω/m (based on a power core, at an ambient temperature of 20°C)

Cable structure

Stripping length of the sheath	70 mm ±5 mm

Mechanical properties

Mechanical data

Insertion force	< 100 N
Withdrawal force	< 100 N

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

Altitude	5000 m (above sea level)

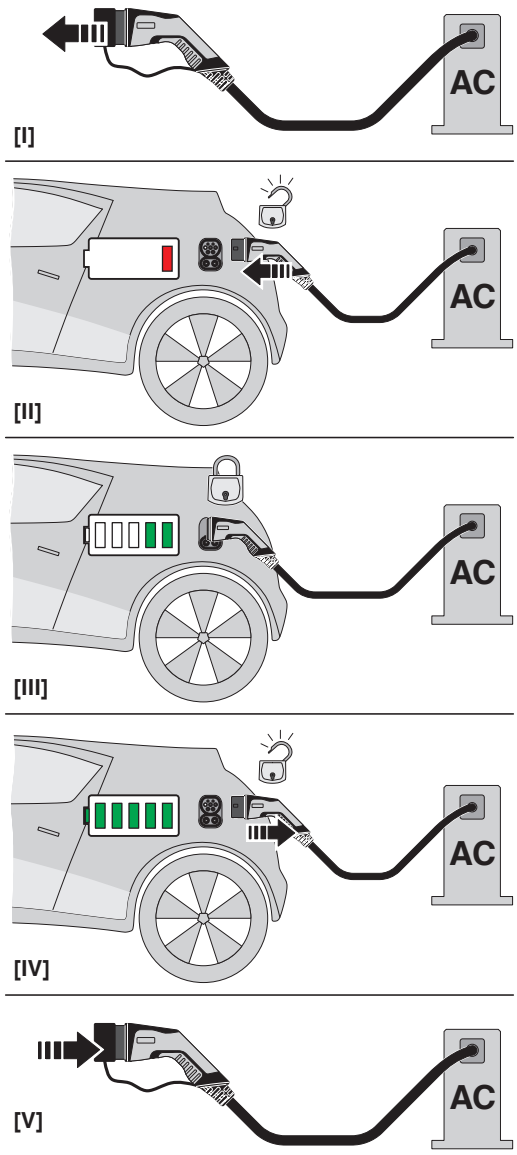
Standards and regulations

Standards

Standards/regulations	IEC 62196-2

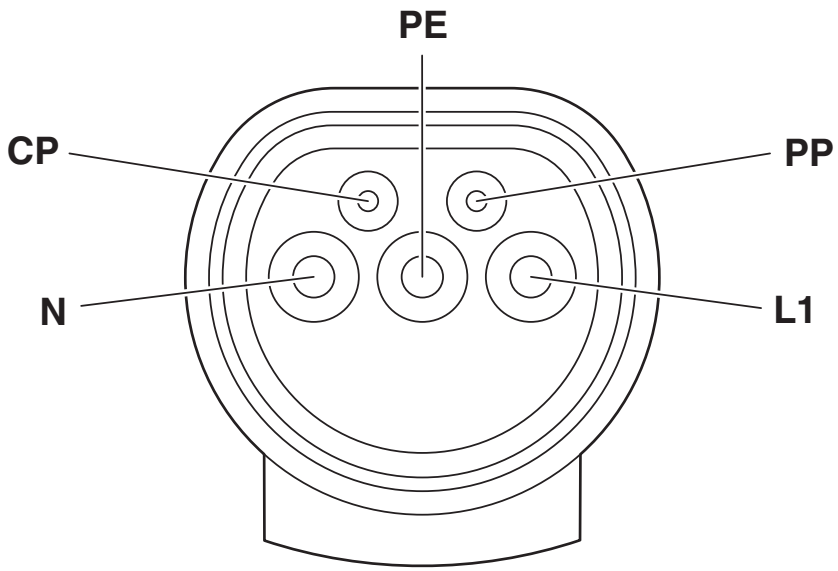
Drawings

Schematic diagram



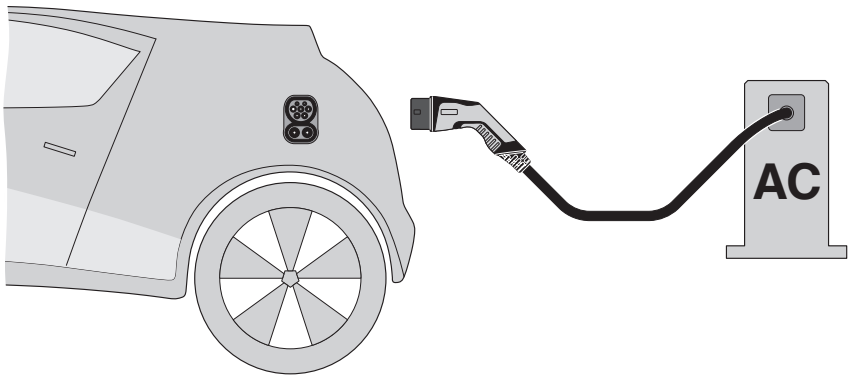
Operating instructions

Schematic diagram



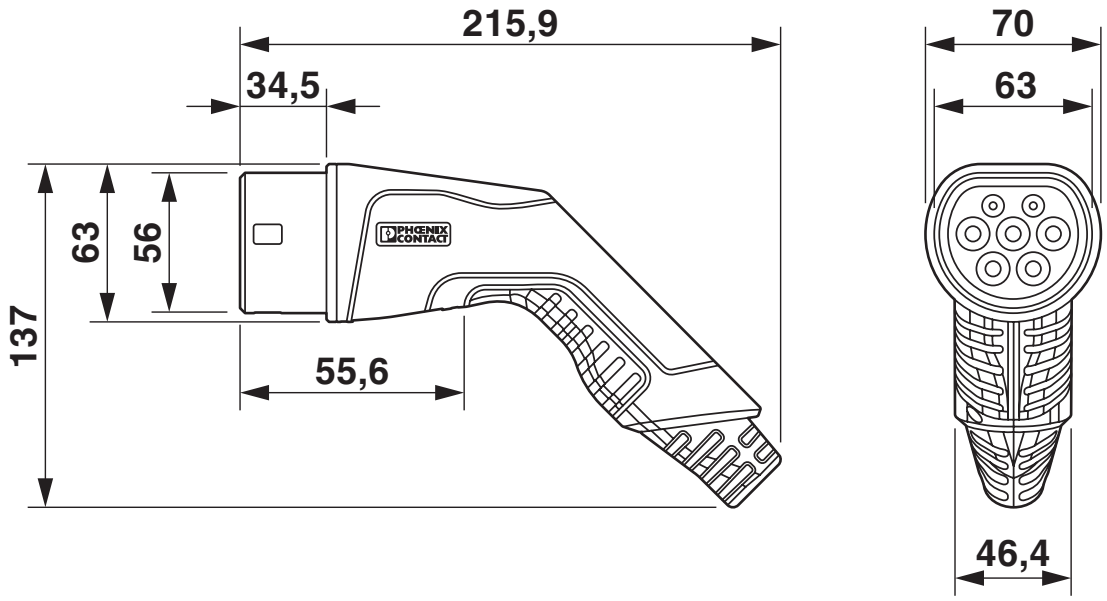
Pin assignment of the Vehicle Connector

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.

Approvals

IECEE CB Scheme
Approval ID: DE1-61066/M1

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	20 A	-	-

VDE Zeichengenehmigung
Approval ID: 40045387

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	20 A	-	-

Classifications

ECLASS

ECLASS-9.0	27144705
ECLASS-10.0.1	27144705
ECLASS-11.0	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

Charging connector holder

Charging connector holder - EV-T2AC-PARK - 1624148

https://www.phoenixcontact.com/gb/products/1624148

CHARX connect, Charging connector holder, Charging connector holder, for vehicle charging connectors on charging stations (EVSE), Type 2, IEC 62196-2, Front mounting, 0 to 45 degree frontal inclination possible, D-Line, “PHOENIX CONTACT” logo

AC charging controller

AC charging controller - CHARX SEC-1000 - 1139034

https://www.phoenixcontact.com/gb/products/1139034

CHARX control modular, AC charging controller according to IEC 61851-1. Standard. operating mode Stand-alone or client. interface: CHARX control modul ar system bus. Connectable peripheral devices: Energy meter, RFID, DC residual current detection. DIN rail mounting

AC charging controller

AC charging controller - CHARX SEC-3000 - 1139022

https://www.phoenixcontact.com/gb/products/1139022

CHARX control modular, AC charging controller according to IEC 61851-1. Embedded Linux system. operating mode Stand-alone, server, or client. interface: Ethernet (2x), CHARX control modular system bus, MICRO-USB type C. communication protocol: OCPP 1.6J, Modbus/TCP, MQTT. Connectable peripheral devices: Energy meter, RFID, DC residual current detection. DIN rail mounting

AC charging controller

AC charging controller - CHARX SEC-3050 - 1139018

https://www.phoenixcontact.com/gb/products/1139018

CHARX control modular, AC charging controller according to IEC 61851-1, ISO/IEC 15118. Embedded Linux system. operating mode Stand-alone, server, or client. interface: Ethernet (2x), CHARX control modular system bus, MICRO-USB type C. communication protocol: OCPP 1.6J, Modbus/TCP, MQTT. Connectable peripheral devices: Energy meter, RFID, DC residual current detection. DIN rail mounting

AC charging controller

AC charging controller - CHARX SEC-3100 - 1139012

https://www.phoenixcontact.com/gb/products/1139012

CHARX control modular, AC charging controller according to IEC 61851-1. Embedded Linux system. operating mode Stand-alone, server, or client. interface: Ethernet (2x), Cellular communication (4G/2G), CHARX control modular system bus, MICRO-USB type C. communication protocol: OCPP 1.6J, Modbus/TCP, MQTT. Connectable peripheral devices: Energy meter, RFID, DC residual current detection. DIN rail mounting

AC charging controller

AC charging controller - CHARX SEC-3150 - 1138965

https://www.phoenixcontact.com/gb/products/1138965

CHARX control modular, AC charging controller according to IEC 61851-1, ISO/IEC 15118. Embedded Linux system. operating mode Stand-alone, server, or client. interface: Ethernet (2x), Cellular communication (4G/2G), CHARX control modular system bus, MICRO-USB type C. communication protocol: OCPP 1.6J, Modbus/TCP, MQTT. Connectable peripheral devices: Energy meter, RFID, DC residual current detection. DIN rail mounting

Measuring instrument

Measuring instrument - EEM-EM357 - 2908588

https://www.phoenixcontact.com/gb/products/2908588

Three-phase power meter for active power measurement with direct measurement in networks of up to 500 V / 80 A, with S0 output, with digital input and RS-485 interface, certified in accordance with the MID directive

AC charging controller

AC charging controller - EV-CC-AC1-M3-CC-SER-HS - 1622459

https://www.phoenixcontact.com/gb/products/1622459

The EV-CC-AC1-M3-CBC-SER-HS charging controller with housing for DIN rail mounting is used for charging electric vehicles at 3-phase AC networks according to IEC 61851-1, Mode 3. Optimized for charging stations with permanently mounted Vehicle Connector. All charging functions and comprehensive configuration settings are already integrated.

AC charging controller

AC charging controller - EV-CC-AC1-M3-CC-SER-PCB - 1622460

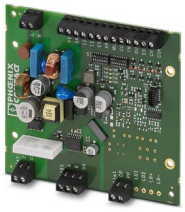
https://www.phoenixcontact.com/gb/products/1622460

The EV-CC-AC1-M3-CC-SER-PCB charging controller as a PCB for charging electric vehicles on a 3-phase AC power grid according to IEC 61851-1, Mode 3. Optimized for charging stations with permanently mounted Vehicle Connector. All charging functions and comprehensive configuration settings are already integrated.

AC charging controller

AC charging controller - EV-CC-AC1-M3-CC-SER-PCB-XC-25X - 1627742

https://www.phoenixcontact.com/gb/products/1627742



The EV-CC-AC1-M3-CC-SER-PCB charging controller as a PCB for charging electric vehicles on a 3-phase AC power grid according to IEC 61851-1, Mode 3. Optimized for charging stations with permanently mounted Vehicle Connector. All charging functions and comprehensive configuration settings are already integrated.

AC charging controller

AC charging controller - EV-CC-AC1-M3-CC-SER-PCB-MSTB - 1627367

https://www.phoenixcontact.com/gb/products/1627367

The EV-CC-AC1-M3-CC-SER-PCB-MSTB charging controller as a PCB for charging electric vehicles according to IEC 61851-1, Mode 3, optimized for charging stations with permanently mounted Vehicle Connector. Connection via PCB connector on header.

AC charging controller

AC charging controller - EM-CP-PP-ETH - 2902802

https://www.phoenixcontact.com/gb/products/2902802

EV charge control is used to charge electrical vehicles on the 3-phase AC mains power supply according to IEC 61851-1 Mode 3. All necessary control functions are integrated. Additional functions are available for various charging applications.

Label

Label - EV-LABEL-C - 1309766

https://www.phoenixcontact.com/gb/products/1309766

CHARX connect, Label, Label, for AC charging cable, DIN EN 17186, C-Line, “PHOENIX CONTACT” logo, Marking C for AC type 2 vehicle charging connectors and type 2 vehicle charging inlets

Cable gland

Cable gland - G-INS-M20-S68N-PNES-BK - 1411133

https://www.phoenixcontact.com/gb/products/1411133

Cable gland, cable gland material: PA, external cable diameter 6 mm ... 12 mm, shielding: no, connecting thread: M20 x 1.5, color: jet black RAL 9005

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