

# AC charging cable - EV-T2G3PC-3AC20A-6,0M2,5ESBK01



1027853

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CHARX connect, Mobile AC charging cable with vehicle charging connector and infrastructure charging plug, with protective cap, Housing color black-gray, for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets, compatible with type 2 infrastructure charging sockets at charging stations for electromobility (EVSE), Type 2, IEC 62196-2, 20 A / 480 V (AC), C-Line, "PHOENIX CONTACT" logo, cable: 6 m, black, straight, NOTE: Cable management may be required.

## Product Description

Mobile AC charging cable with Vehicle Connector and Infrastructure plug for charging electric vehicles (EV) with alternating current (AC), via type 2 Vehicle Inlets, compatible with type 2 Infrastructure Socket Outlets 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

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## Commercial Data

Item number	1027853
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	XWBAEC
Product Key	XWBAEC
GTIN	4055626522395
Weight per Piece (including packing)	2,375 g
Weight per Piece (excluding packing)	2,375 g
Customs tariff number	85444290
Country of origin	DE

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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 compatible with type 2 infrastructure charging sockets at charging stations for electromobility (EVSE)
Type	Mobile AC charging cable with vehicle charging connector and infrastructure charging plug with protective cap Housing color black-gray
Affixed logo	"PHOENIX CONTACT" logo

### Product definition

Charging mode	Mode 3, Case B
Charging standard	Type 2

### Electrical properties

Number of phases	3
Type of signal transmission	Pulse width modulation
Type of charging current	AC 3-phase
Note on the connection method	Crimp connection, cannot be disconnected
Coding	680 $\Omega$ (between PE and PP)
Maximum capacity	16.63 kW

### Power contact

Number	5 (L1, L2, L3, N, PE)
Rated voltage	480 V AC
Rated current	20 A

### Signal contact

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

### Dimensions

Dimensional drawing	<p>The drawing shows two views of the vehicle charging connector. The side view shows a total length of 215.9 mm, a width of 70 mm, and a height of 137 mm. The top view shows a width of 70 mm and a height of 63 mm. The bottom view shows a width of 46.4 mm. Other dimensions include 34.5 mm, 55.6 mm, 65 mm, and 58 mm.</p>
Width	70 mm (Vehicle charging connector) 58 mm (Infrastructure charging plug)
Height	137 mm (Vehicle charging connector)

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	131.8 mm (Infrastructure charging plug)
Depth	215.9 mm (Vehicle charging connector)
	233.4 mm (Infrastructure charging plug)

## 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

Color Housing	black
Color Connection profile	black
Color Handle area	gray
Color Protective cap	black
Customer variations	On request

## Cable / line

Cable length	6 m
Wiring standards/regulations	prEN 50620 / DIN EN 50620
Wiring certifications	VDE
Cable weight	max. 250 kg/km
Type of cable	straight
Cable structure	5 x 2.5 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>
Cable type	Class 5
External cable diameter	12.8 mm ±0.4 mm
Outer sheath, material	TPE-U
External sheath, color	black
Conductor resistance	≤ 0.00798 Ω/m (based on a power core, at an ambient temperature of 20°C)

## Mechanical properties

### Design

Design	C-Line
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### Mechanical data

Insertion force	< 100 N
Withdrawal force	< 100 N

### Design

Design	C-Line
Customer variations	On request

## Environmental and real-life conditions

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## Ambient conditions

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 certain regions if the cable length exceeds 5.0 m (Switzerland) or 7.5 m (USA) (IEC 61851-1).
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### Standards

Standards/regulations	IEC 62196-2
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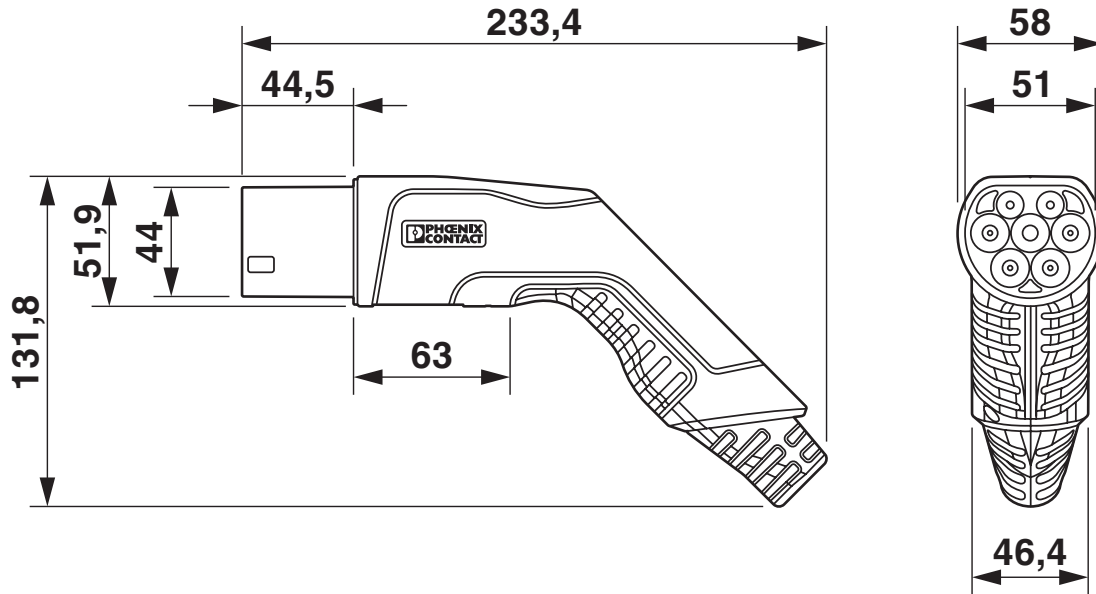


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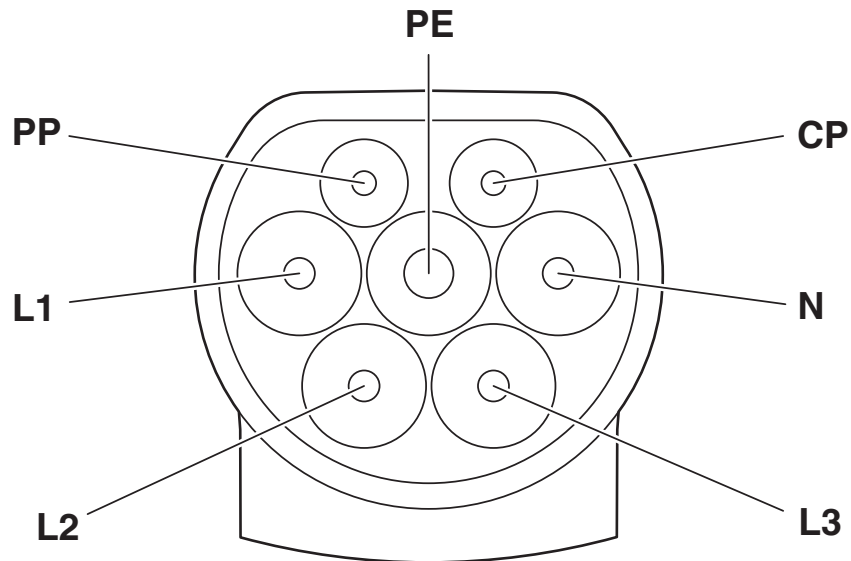
## Drawings

Dimensional drawing



## Infrastructure plug

Connection diagram



## Pin assignment of Infrastructure Plug

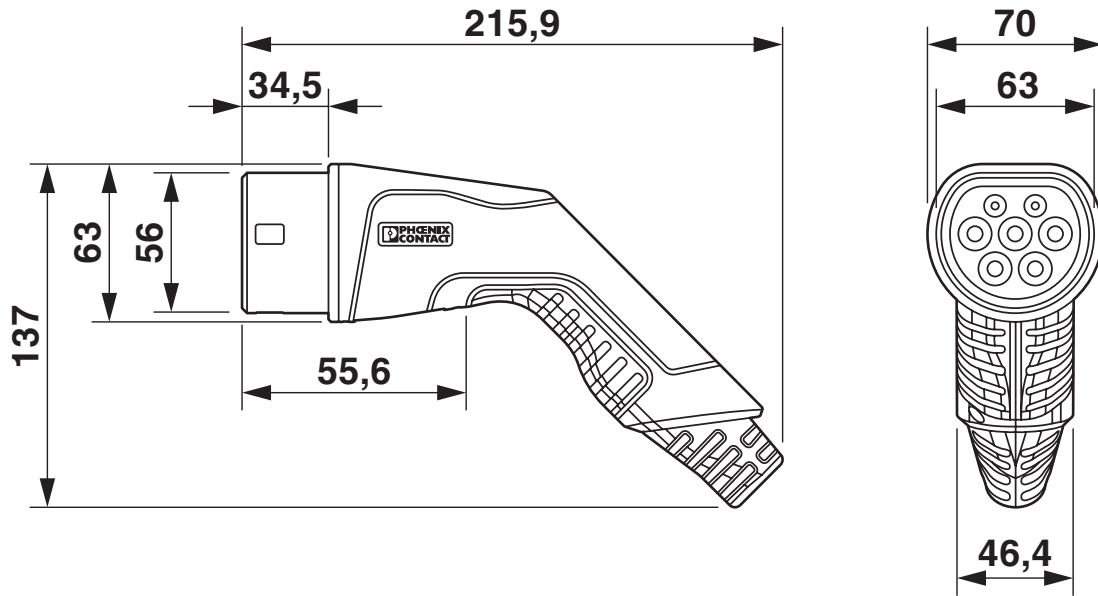
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Dimensional drawing



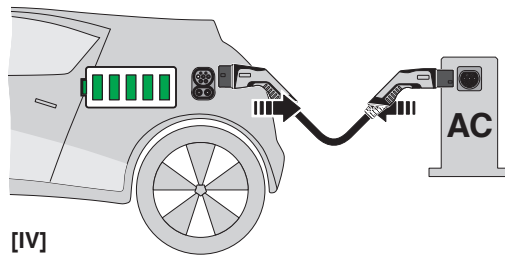
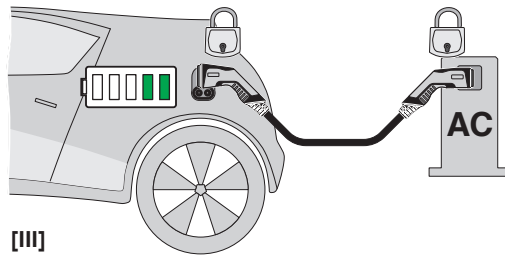
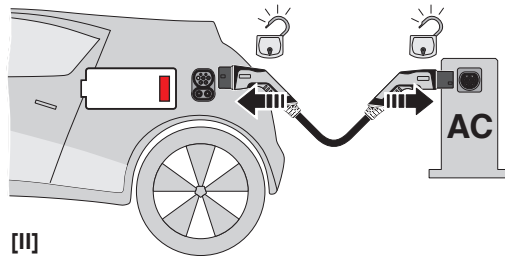
Vehicle connector

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Schematic diagram



Operating instructions

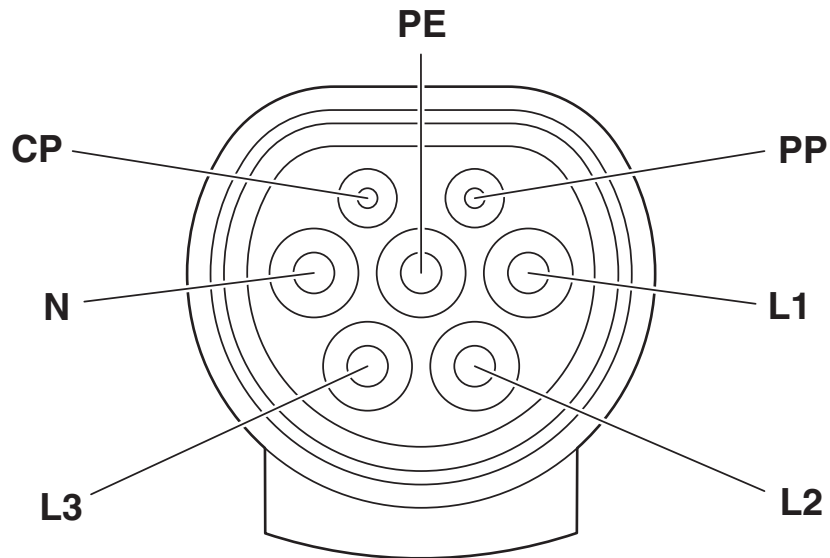


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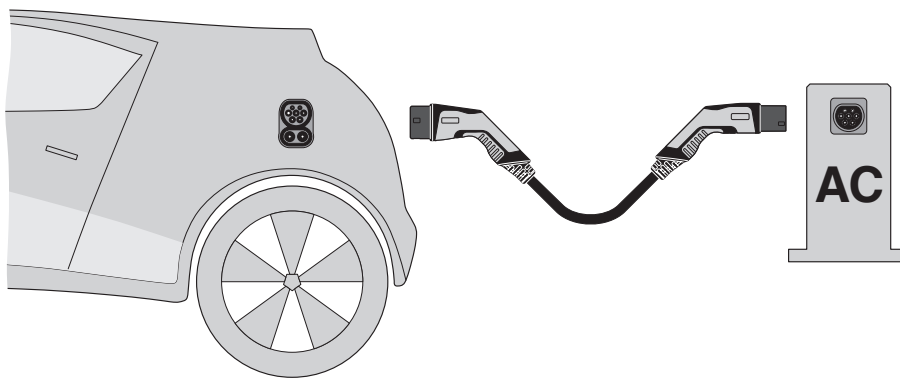
<https://www.phoenixcontact.com/gb/products/1027853>

Schematic diagram



Pin assignment of the Vehicle Connector

Schematic diagram



Terminology definition


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## Approvals

IECEE CB Scheme 	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	480 V	20 A	-	-

VDE Zeichengenehmigung 	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	480 V	20 A	-	-

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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	39121522
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## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10; For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

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## Accessories

### Set

Set - EV-T2M3SO12-3P-P-SET - 1164422



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with temperature sensors, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Rear panel mounting, M5 thread, Premium with LED cover, "PHOENIX CONTACT" logo

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### Set

Set - EV-T2M3SO12-4P-P-SET - 1164423



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with temperature sensors, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Rear panel mounting, M5 thread, Premium with LED cover, "PHOENIX CONTACT" logo

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Set

Set - EV-T2M3SO12-3P-BL-SET - 1268358



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Rear panel mounting, M5 thread, Basic with LED cover, "PHOENIX CONTACT" logo

Set

Set - EV-T2M3SO12-4P-BL-SET - 1268355



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Rear panel mounting, M5 thread, Basic with LED cover, "PHOENIX CONTACT" logo

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Set

Set - EV-T2M3SO12-3P-B-SET - 1164420



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Rear panel mounting, M5 thread, Basic, "PHOENIX CONTACT" logo

Set

Set - EV-T2M3SO12-4P-B-SET - 1164417



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Rear panel mounting, M5 thread, Basic, "PHOENIX CONTACT" logo

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## Label

Label - EV-LABEL-C - 1309766

CHARX connect, Label, accordance to DIN EN 17186, for AC charging cable, DIN EN 17186, Marking C for AC type 2 vehicle charging connectors and type 2 vehicle charging inlets



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## Label

Label - EV-LABEL-C-SO - 1315521

CHARX connect, Label, for AC charging cables and infrastructure charging sockets, DIN EN 17186, Marking C for AC type 2 infrastructure charging plugs and type 2 infrastructure charging sockets





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Charging connector holder

Charging connector holder - EV-T2AC-PARK - 1624148



CHARX connect, Charging connector holder, for vehicle charging connectors on charging stations (EVSE), Type 2, IEC 62196-2, Front mounting

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