

# EV-T2M3C-1AC20A-10,0M2,5ESBK00 - AC charging cable



1622653

<https://www.phoenixcontact.com/us/products/1622653>

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CHARX connect, Type 2, cable: 10 m, straight, IEC 62196-2, AC charging cable with Vehicle Connector, open cable end, with protective cap, NOTE: Signal transmission is dependent on the cable length and may be adversely affected.



## Product description

AC charging cable with vehicle charging connector and free cable end for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets, for installation at charging stations for e-mobility (EVSE)

## Your advantages

- Consistent design of all Phoenix Contact Vehicle Connectors and Infrastructure Plugs
- Silver-plated surface of the power and signal contacts
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- Convenient handling, thanks to the ergonomic handle and additional, rubber grip components

## Commercial data

Item number	1622653
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBAAC
GTIN	4055626055534
Weight per piece (including packing)	2,190 g
Weight per piece (excluding packing)	2.06 g
Country of origin	DE

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## Technical data

### Notes

General	NOTE: Signal transmission is dependent on the cable length and may be adversely affected.
General	The cable capacity must therefore be assessed in the overall system of the charging station and must not exceed 3100 pF (IEC 61851-1, Annex A, Table A.2, Note d).
General	Interference-free V2G communication in accordance with ISO 15118 is not guaranteed for cable lengths over 10 m (ISO IEC 15118-3, A.11.3, Table A.11).
General	Cable management is required in certain regions if the cable length exceeds 5.0 m (Switzerland) or 7.5 m (USA) (IEC 61851-1).

### Product properties

Product type	AC charging cable
Product family	CHARX connect
Application	AC charging cable with Vehicle Connector, open cable end, with protective cap
Charging standard	Type 2
Charging mode	Mode 3, Case C

### Electrical properties

#### Charging power and current (AC charging (1-phase))

Type of charging current	AC single-phase
Charging current	20 A AC (1-phase)
Charging power	5 kW

### Cable/line

Cable length	10 m
Wiring standards/regulations	prEN 50620/DIN EN 50620
Wiring certifications	VDE
Cable weight	max. 163.00 kg/km
Cable type	Class 5
Cable type	straight
Cable structure	3 x 2.5 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>
External cable diameter	10.20 mm ±0.3 mm
Outer sheath, material	TPE-U
Stripping length of the sheath	45 mm ±10 mm
Stripping length	45 mm ±10 mm
Cable resistance	≤ 0.00798 Ω/m (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 153 mm (15x diameter)
Cable length	10 m
Stripping length	45 mm ±10 mm

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Cable type	Class 5
Wiring certifications	VDE
Wiring standards/regulations	prEN 50620/DIN EN 50620
Cable resistance	$\leq 0.00798 \Omega/m$ (based on a power core, at an ambient temperature of 20°C)

## Standards and regulations

Standards

Standards/regulations

IEC 62196-2

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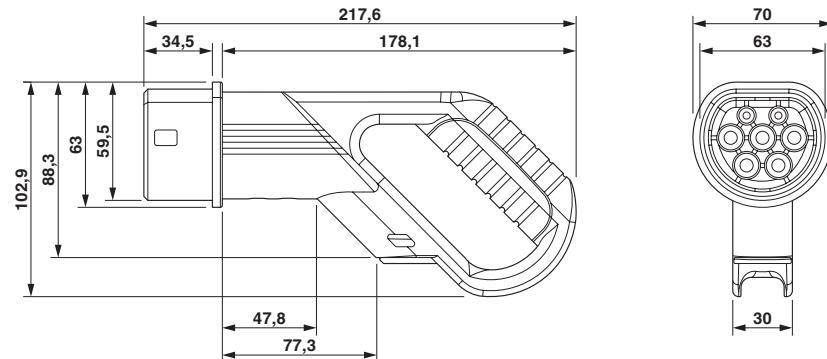


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## Drawings

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.

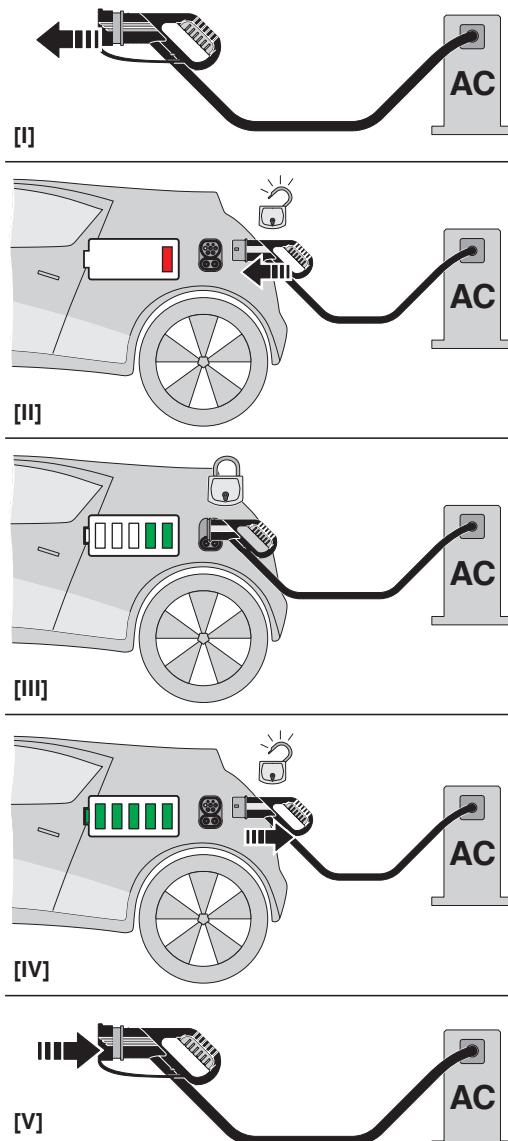
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Schematic diagram



Operating instructions

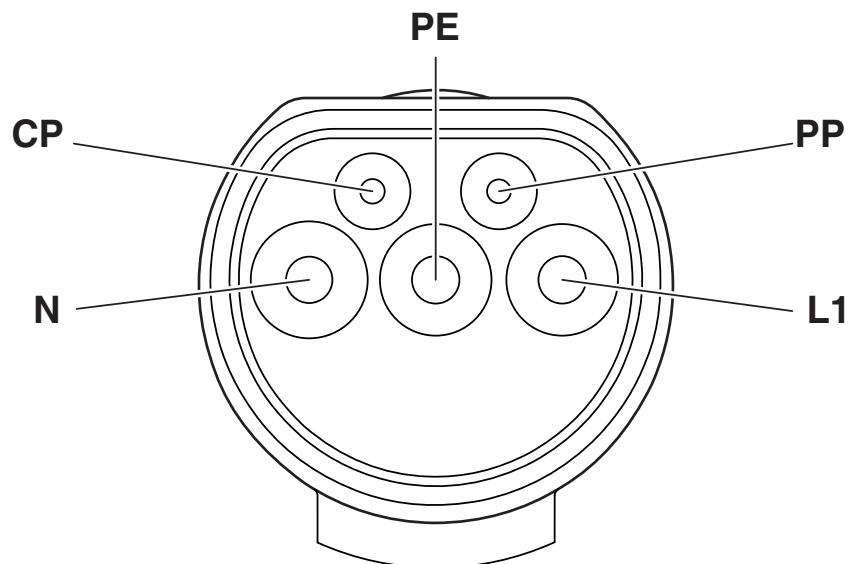
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Schematic diagram



Pin assignment of the Vehicle Connector

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## Classifications

### UNSPSC

UNSPSC 21.0

39121522

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## 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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