

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

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



CHARX connect, AC charging cable with Vehicle Connector, open cable end, with protective cap, Type 2, IEC 62196-2, cable: 10 m, straight, 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

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



1622653

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

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 mode	Mode 3, Case C
Charging standard	Type 2

Electrical properties

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

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 ² + 1 x 0.5 mm ²
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
External cable diameter	10.20 mm ±0.3 mm

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

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

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)

Standards and regulations

Standards

Standards/regulations	IEC 62196-2
-----------------------	-------------

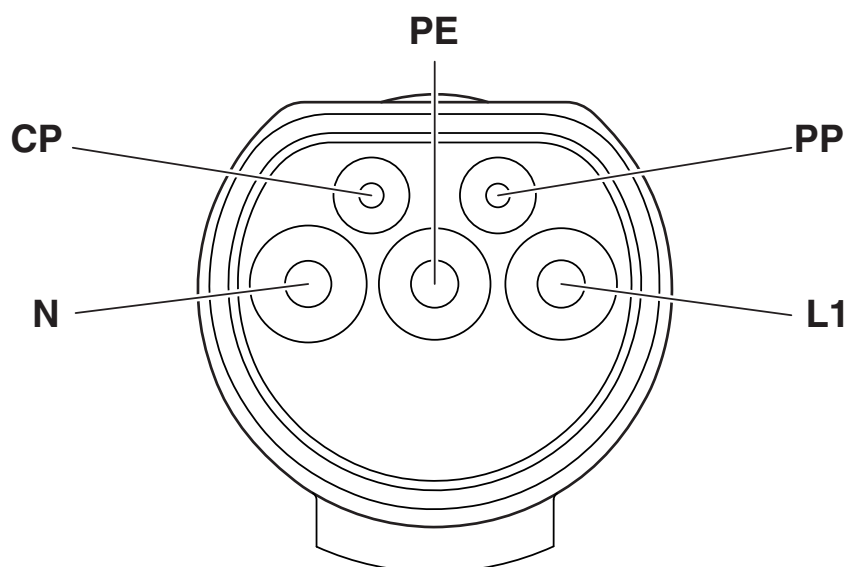
EV-T2M3C-1AC20A-10,0M2,5ESBK00 - AC charging cable

1622653

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

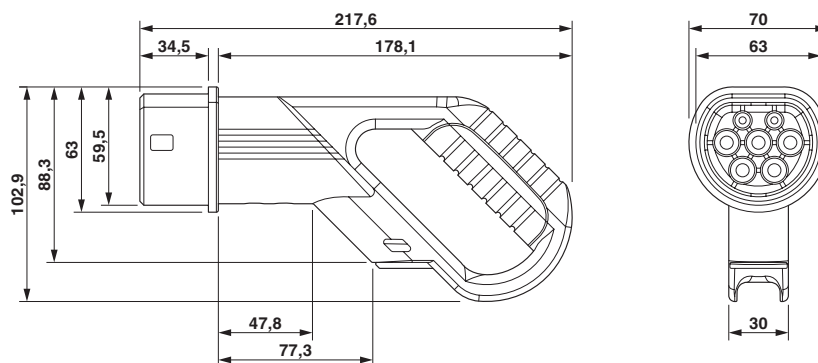
Drawings

Schematic diagram



Pin assignment of the Vehicle Connector

Dimensional drawing



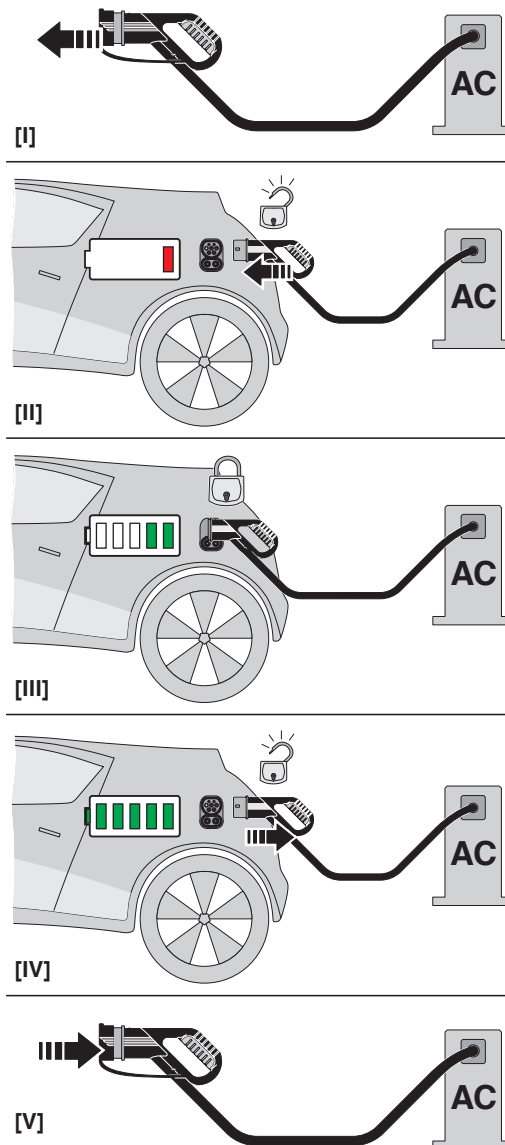
Make sure that the vehicle charging connector is placed in an appropriate charging connector holder, which ensures a minimum protection rating of IP24 in accordance with IEC 61851-1, for the entire time between charging. To create this charging connector holder, use the dimensions of the vehicle charging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

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

1622653

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

Schematic diagram



Operating instructions

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



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

Classifications

UNSPSC

UNSPSC 21.0	39121522
-------------	----------

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

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%

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



1622653

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

Accessories

EV-T2AC-PARK - Charging connector holder

1624148

<https://www.phoenixcontact.com/us/products/1624148>



CHARX connect, Charging connector holder, Accessories, for vehicle charging connectors on charging stations (EVSE), Type 2, IEC 62196-2, Front mounting, housing: black, PHOENIX CONTACT logo

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

1622459

<https://www.phoenixcontact.com/us/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.

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



1622653

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

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

1622460

<https://www.phoenixcontact.com/us/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.

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

1627742

<https://www.phoenixcontact.com/us/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.

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



1622653

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

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

1627367

<https://www.phoenixcontact.com/us/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.

EM-CP-PP-ETH - AC charging controller

2902802

<https://www.phoenixcontact.com/us/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.

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com