

# AC charging cable - EV-T2G3C-1AC20A-4,0M2,5ESBK01

1623502

<https://www.phoenixcontact.com/gb/products/1623502>

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CHARX connect, AC charging cable with vehicle charging connector and open cable end, with protective cap, Housing color black-gray, 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, straight

## 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

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## Commercial Data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1623502       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales Key                            | XWBAAC        |
| Product Key                          | XWBAAC        |
| GTIN                                 | 4055626177830 |
| Weight per Piece (including packing) | 1,173 g       |
| Weight per Piece (excluding packing) | 1,093 g       |
| Customs tariff number                | 85444290      |
| 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<br>for installation at charging stations for electromobility (EVSE) |
| Type              | AC charging cable<br>with vehicle charging connector and open cable end<br>with protective cap<br>Housing color black-gray   |
| 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 $\Omega$ (between PE and PP)         |
| Maximum capacity              | 5 kW                                     |

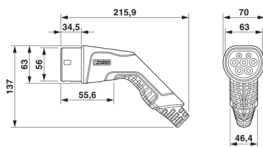
### Power contact

|               |               |
|---------------|---------------|
| 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

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|                              |              |
|------------------------------|--------------|
| 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                 | 4 m  |
| Wiring standards/regulations | prEN 50620 / DIN EN 50620  |
| Wiring certifications        | VDE  |
| Cable weight                 | max. 163 kg/km   |
| Type of cable                | straight   |
| Cable structure              | 3 x 2.5 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>                        |
| Cable type                   | Class 5  |
| External cable diameter      | 10.2 mm ±0.3 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) |

## Cable structure

|                                |             |
|--------------------------------|-------------|
| Stripping length of the sheath | 70 mm ±5 mm |
|--------------------------------|-------------|

## Mechanical properties

### Design

|        |        |
|--------|--------|
| Design | C-Line |
|--------|--------|

### Mechanical data

|                  |         |
|------------------|---------|
| Insertion force  | < 100 N |
| Withdrawal force | < 100 N |

### Design

|                     |            |
|---------------------|------------|
| Design              | C-Line     |
| Customer variations | On request |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Ambient temperature (operation) | -30 °C ... 50 °C |
|---------------------------------|------------------|

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|   |                          |
|---|--------------------------|
| Ambient temperature (storage/transport) | -40 °C ... 80 °C         |
| Altitude                                | 5000 m (above sea level) |

## Standards and regulations

### Standards

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

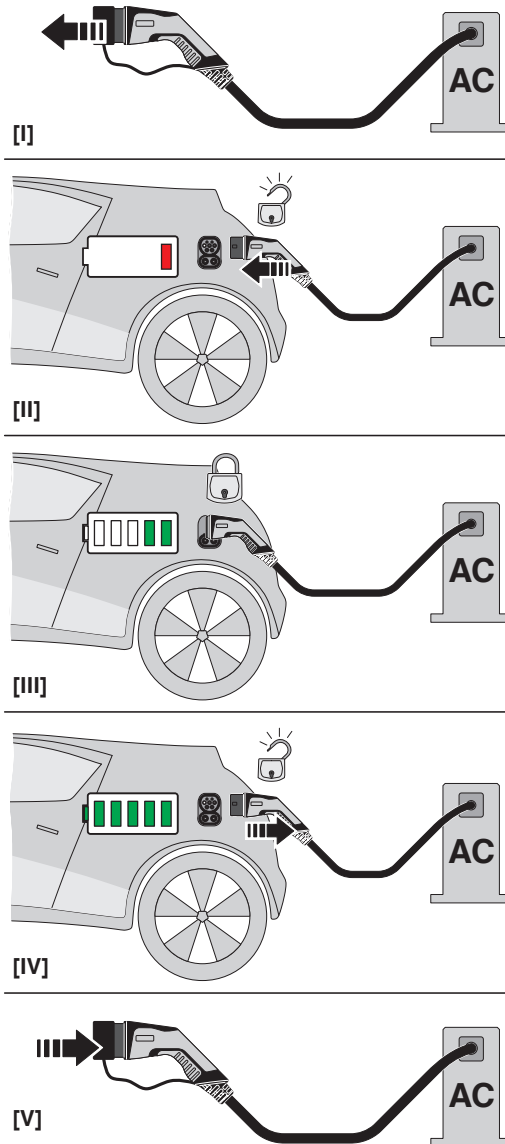
# AC charging cable - EV-T2G3C-1AC20A-4,0M2,5ESBK01

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## Drawings

Schematic diagram



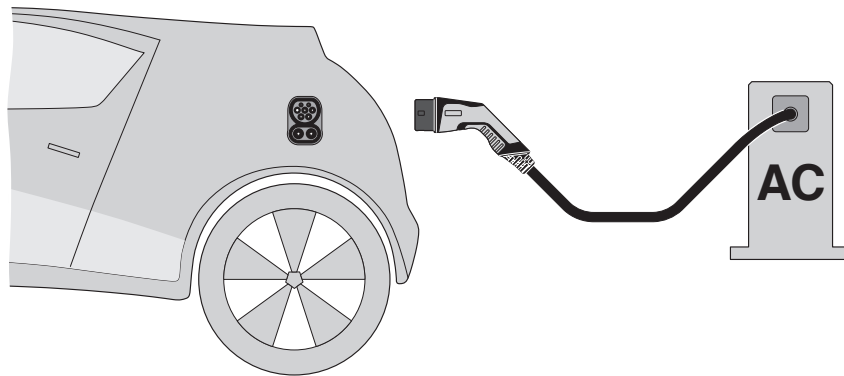
Operating instructions

# AC charging cable - EV-T2G3C-1AC20A-4,0M2,5ESBK01

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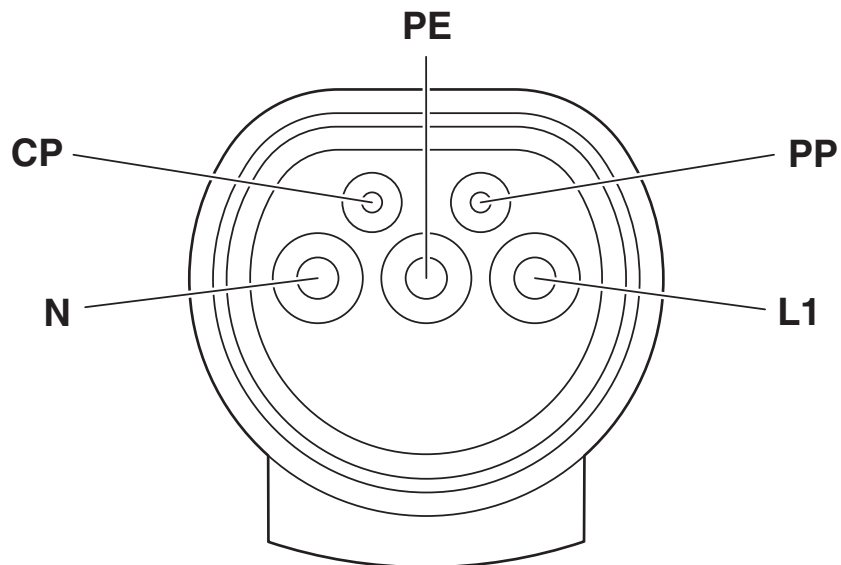
<https://www.phoenixcontact.com/gb/products/1623502>

Schematic diagram



Terminology definition

Schematic diagram



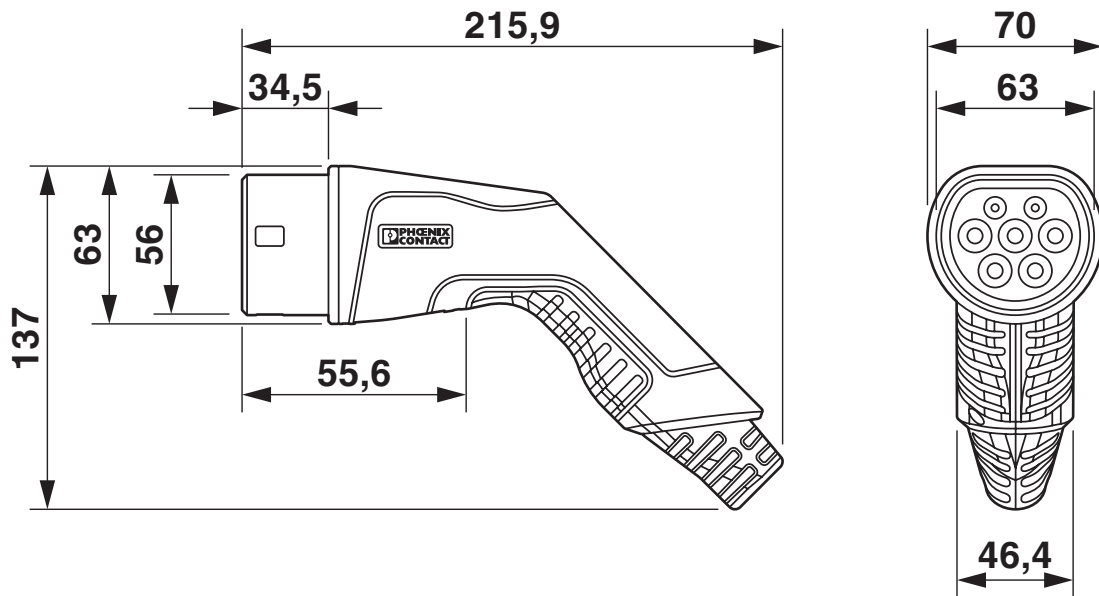
Pin assignment of the Vehicle Connector

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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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## Approvals

| IECEE CB Scheme<br> | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 250 V                 | 20 A                  | -                 | -                           |

| VDE<br>Zeichengenehmigung<br> | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 250 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 |
|----------|----------|

### 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;<br>For details about hazardous substances go to tab "Downloads",<br>Category "Manufacturer's declaration" |

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## Accessories

### Measuring instrument

Measuring instrument - EEM-EM357 - 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



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### Cable gland

Cable gland - G-INS-M20-S68N-PNES-BK - 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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## AC charging controller

AC charging controller - CHARX SEC-1000 - 1139034



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

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## AC charging controller

AC charging controller - CHARX SEC-3000 - 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

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## AC charging controller

AC charging controller - CHARX SEC-3050 - 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

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## AC charging controller

AC charging controller - CHARX SEC-3100 - 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 cable - EV-T2G3C-1AC20A-4,0M2,5ESBK01

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## AC charging controller

AC charging controller - CHARX SEC-3150 - 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

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## AC charging controller

AC charging controller - EV-CC-AC1-M3-CC-SER-HS - 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 cable - EV-T2G3C-1AC20A-4,0M2,5ESBK01

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## AC charging controller

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

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## AC charging controller

AC charging controller - EV-CC-AC1-M3-CC-SER-PCB-XC-25X - 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 cable - EV-T2G3C-1AC20A-4,0M2,5ESBK01

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## AC charging controller

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

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## AC charging controller

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

# AC charging cable - EV-T2G3C-1AC20A-4,0M2,5ESBK01

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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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## 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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