

# EV-T2G3C-1AC32A-4,0M6,0EHBK01 - AC charging cable



1627127

<https://www.phoenixcontact.com/pl/produkty/1627127>

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CHARX connect comfort, AC charging cable, with vehicle charging connector and open cable end, for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets, with protective cap, Type 2, IEC 62196-2, housing: black, gray, PHOENIX CONTACT logo, cable: 4 m, black, spiraled

## 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

- 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                          | 1627127            |
| Packing unit                         | 1 pc               |
| Minimum order quantity               | 1 pc               |
| Sales Key                            | XWBAAC             |
| Product Key                          | XWBAAC             |
| Catalog Page                         | Page 22 (C-7-2019) |
| GTIN                                 | 4055626299426      |
| Weight per Piece (including packing) | 2,545 g            |
| Weight per Piece (excluding packing) | 2,545 g            |
| Customs tariff number                | 85444290           |
| Country of origin                    | PL                 |

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## Technical Data

### Product properties

|                   |                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type      | AC charging cable                                                                                                                                                        |
| Product family    | CHARX connect comfort                                                                                                                                                    |
| 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                                                                                                  |
| Design            | with protective cap                                                                                                                                                      |
| Locking type      | No locking option for U-lock                                                                                                                                             |
| Affixed logo      | PHOENIX CONTACT logo                                                                                                                                                     |
| Charging mode     | Mode 3, Case C                                                                                                                                                           |
| Charging standard | Type 2                                                                                                                                                                   |

### Electrical properties

|                               |                                          |
|-------------------------------|------------------------------------------|
| Type of signal transmission   | Pulse width modulation                   |
| Note on the connection method | Crimp connection, cannot be disconnected |
| Coding                        | 220 $\Omega$ (between PE and PP)         |
| Type of charging current      | AC single-phase                          |
| Charging power                | 8 kW                                     |
| Charging current              | 32 A                                     |

#### Power contact

|               |               |
|---------------|---------------|
| Number        | 3 (L1, N, PE) |
| Rated voltage | 250 V AC      |
| Rated current | 32 A          |

#### Signal contact

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

## Dimensions

#### Vehicle charging connector

|        |          |
|--------|----------|
| Width  | 70 mm    |
| Height | 137 mm   |
| Depth  | 215.9 mm |

## Material specifications

|                 |                                             |
|-----------------|---------------------------------------------|
| Color (Housing) | black (9005)<br>gray (7042)<br>black (9005) |
|-----------------|---------------------------------------------|

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|                                       |              |
|---------------------------------------|--------------|
| Material (Vehicle charging connector) | black (9005) |
|                                       | black (9005) |
|                                       | Plastic      |
|                                       | TPE-U        |
|                                       | Silver       |

## Cable/line

|                                |                                                                         |
|--------------------------------|-------------------------------------------------------------------------|
| Cable length                   | 4 m                                                                     |
| Wiring standards/regulations   | prEN 50620 / DIN EN 50620                                               |
| Wiring certifications          | VDE                                                                     |
| Cable type                     | Class 5                                                                 |
| Cable type                     | spiraled                                                                |
| Cable structure                | 3 x 6.0 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>                       |
| External cable diameter        | 12.8 mm ±0.4 mm                                                         |
| Outer sheath, material         | TPE-U                                                                   |
| Stripping length of the sheath | 70 mm ±5 mm                                                             |
| Block length                   | 0.63 m ±10 %                                                            |
| Coil diameter                  | 60 mm ±10 %                                                             |
| Effective length               | max. 4 m ±5 %                                                           |
| Cable resistance               | ≤ 0.0033 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius                 | min. 76.8 mm (6x diameter)                                              |

## Mechanical properties

### Mechanical data

|                             |         |
|-----------------------------|---------|
| Insertion/withdrawal cycles | > 10000 |
| Insertion force             | < 100 N |
| Withdrawal force            | < 100 N |

## Environmental and real-life conditions

### Ambient conditions

|                                                 |                                                                                                                                                                                                                |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Degree of protection Vehicle charging connector | IP44 (plugged in; when plugged in and ready to operate, the degree of protection is only ensued if both plug-in components are original products from Phoenix Contact or suitable standard-compliant products) |
|                                                 | IP54                                                                                                                                                                                                           |
| 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 |
|-----------------------|-------------|

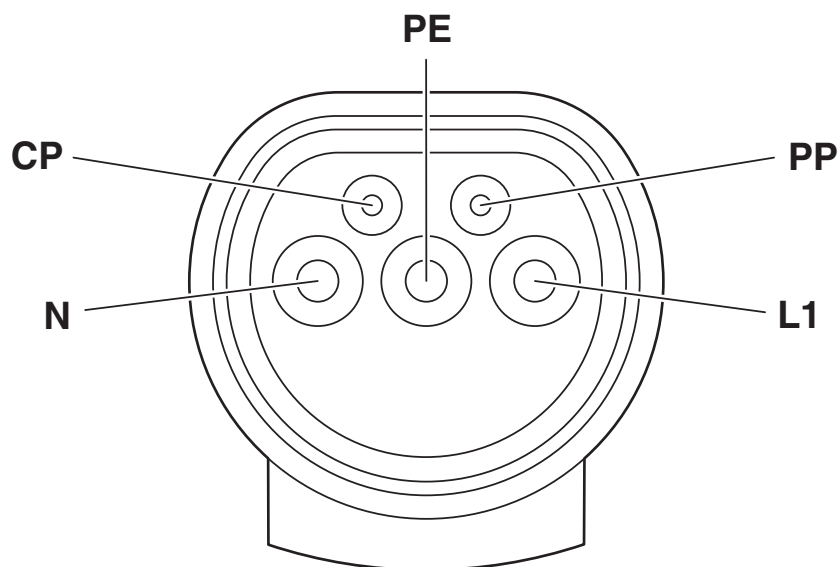
# EV-T2G3C-1AC32A-4,0M6,0EHBK01 - AC charging cable

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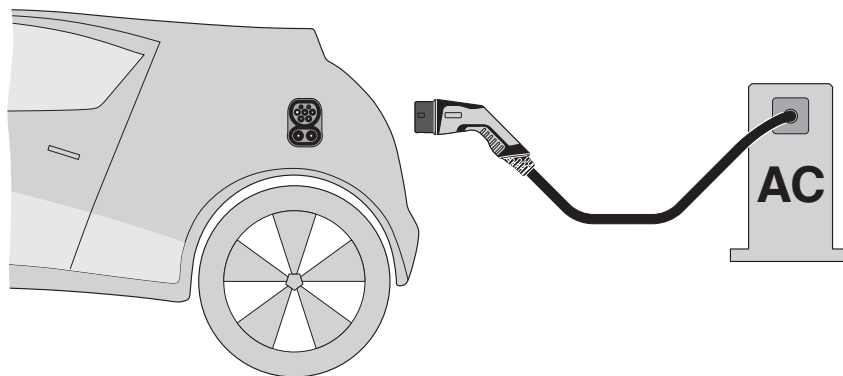
## Drawings

Schematic diagram



Pin assignment of the Vehicle Connector

Schematic diagram



Terminology definition

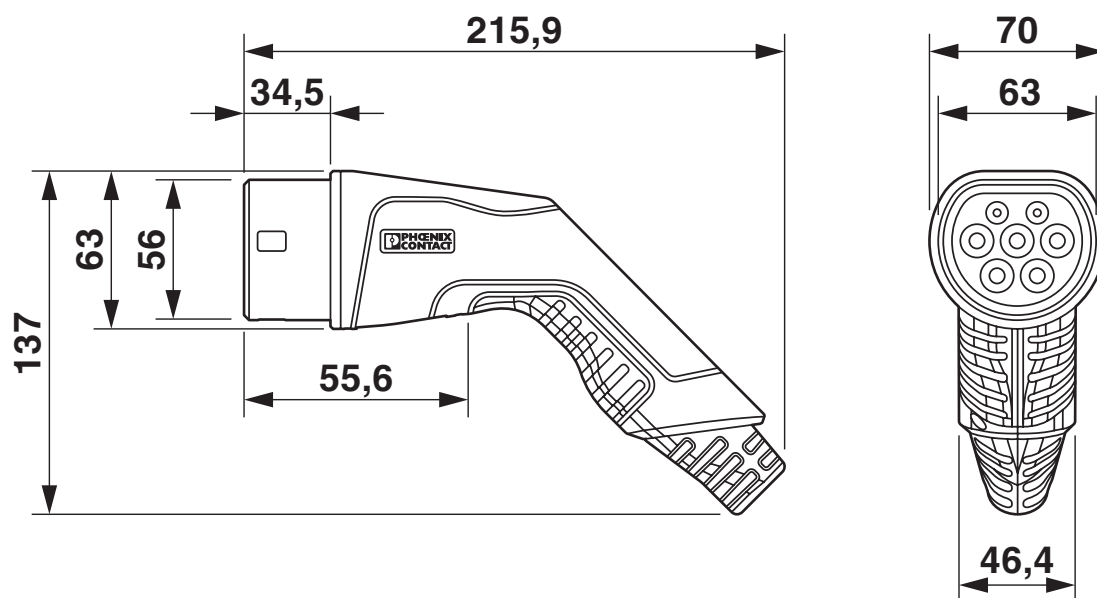
# EV-T2G3C-1AC32A-4,0M6,0EHBK01 - AC charging cable



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Dimensional drawing



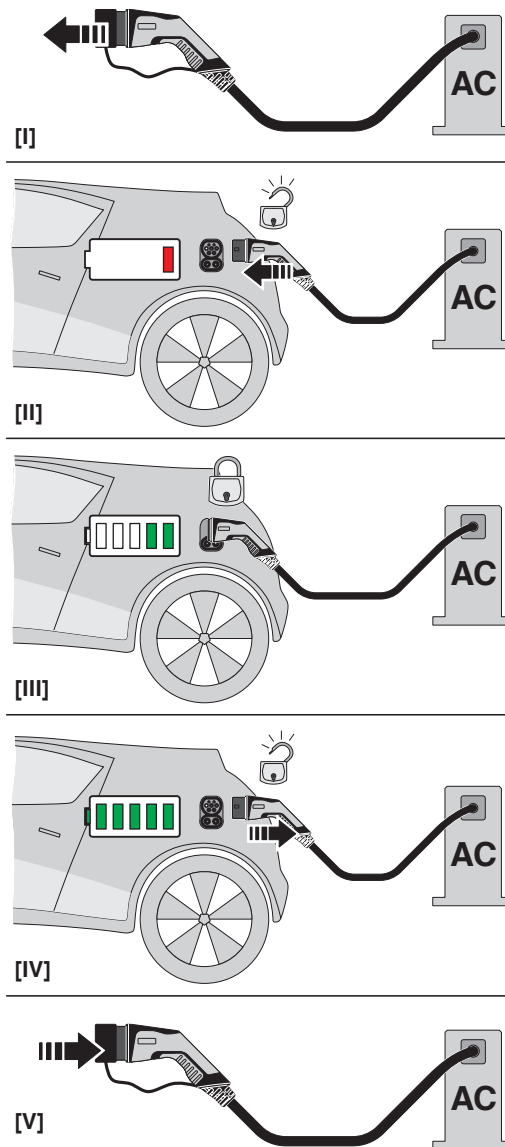
Make sure that the vehicle charging connector is placed in an appropriate charging connector holder, which ensures a minimum protection rating of IP24 in accordance with IEC 61851-1, for the entire time between charging. To create this charging connector holder, use the dimensions of the vehicle charging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

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Schematic diagram



Operating instructions

# EV-T2G3C-1AC32A-4,0M6,0EHBK01 - AC charging cable



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## Approvals

|  | IECEE CB Scheme           |                       |                   |                             |
|-----------------------------------------------------------------------------------|---------------------------|-----------------------|-------------------|-----------------------------|
|                                                                                   | Approval ID: DE1-65898/M1 |                       |                   |                             |
|                                                                                   | Nominal Voltage $U_N$     | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|                                                                                   | 250 V                     | 32 A                  | -                 | -                           |

|  | VDE Zeichengenehmigung |                       |                   |                             |
|-----------------------------------------------------------------------------------|------------------------|-----------------------|-------------------|-----------------------------|
|                                                                                   | Approval ID: 40045387  |                       |                   |                             |
|                                                                                   | Nominal Voltage $U_N$  | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|                                                                                   | 250 V                  | 32 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 | 39121500 |
|-------------|----------|



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## 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" |

# EV-T2G3C-1AC32A-4,0M6,0EHBK01 - AC charging cable



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## Accessories

### EV-T2AC-PARK - Charging connector holder

1624148

<https://www.phoenixcontact.com/pl/produkty/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

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### CHARX SEC-1000 - AC charging controller

1139034

<https://www.phoenixcontact.com/pl/produkty/1139034>



CHARX control modular, AC charging controller, IEC 61851-1, operating mode: Stand-Alone, Client, interface: CHARX control modular system bus, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting

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<https://www.phoenixcontact.com/pl/produkty/1627127>

## CHARX SEC-3000 - AC charging controller

1139022

<https://www.phoenixcontact.com/pl/produkty/1139022>



CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2 x), 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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## CHARX SEC-3050 - AC charging controller

1139018

<https://www.phoenixcontact.com/pl/produkty/1139018>



CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, ISO 15118, operating mode: Stand-Alone, Client, Server, 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

# EV-T2G3C-1AC32A-4,0M6,0EHBK01 - AC charging cable



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## CHARX SEC-3100 - AC charging controller

1139012

<https://www.phoenixcontact.com/pl/produkty/1139012>



CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2 x), 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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## CHARX SEC-3150 - AC charging controller

1138965

<https://www.phoenixcontact.com/pl/produkty/1138965>



CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, ISO 15118, operating mode: Stand-Alone, Client, Server, 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

# EV-T2G3C-1AC32A-4,0M6,0EHBK01 - AC charging cable



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## EEM-EM357 - Measuring instrument

2908588

<https://www.phoenixcontact.com/pl/produkty/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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## EV-CC-AC1-M3-CC-SER-HS - AC charging controller

1622459

<https://www.phoenixcontact.com/pl/produkty/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.

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

1622460

<https://www.phoenixcontact.com/pl/produkty/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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## EV-CC-AC1-M3-CC-SER-PCB-XC-25X - AC charging controller

1627742

<https://www.phoenixcontact.com/pl/produkty/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-T2G3C-1AC32A-4,0M6,0EHBK01 - AC charging cable



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

1627367

<https://www.phoenixcontact.com/pl/produkty/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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## EM-CP-PP-ETH - AC charging controller

2902802

<https://www.phoenixcontact.com/pl/produkty/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.

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## EV-LABEL-C - Label

1309766

<https://www.phoenixcontact.com/pl/produkty/1309766>

CHARX connect, Label, Accessories, for AC type 2 vehicle charging connector, DIN EN 17186



## G-INS-M20-M68N-PNES-BK - Cable gland

1424481

<https://www.phoenixcontact.com/pl/produkty/1424481>

Cable gland, material for screw connection: PA, external cable diameter 10 mm .  
.. 14 mm, shielding: no, connecting thread: M20 x 1.5, color: jet black RAL 9005



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