# EV-GBM3C-1AC16A-7,0M2,5ESOG00U - AC charging cable

1627313

https://www.phoenixcontact.com/us/products/1627313

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CHARX connect, GB/T, AC charging cable, 16 A permanent, 250 V AC, with vehicle charging connector and open cable end, cable: 7 m, black, straight, without protective cap, housing: black, gray, PHOENIX CONTACT logo, GB/T 20234.2, for charging electric vehicles (EV) with alternating current (AC) via GB/T vehicle charging inlets

## Product description

AC charging cable with vehicle charging connector and free cable end for charging electric vehicles (EV) with alternating current (AC) via GB/T 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

## Commercial data

| | |
|---|---|
| Item number | 1627313 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | XWBAAF |
| GTIN | 4055626301495 |
| Weight per piece (including packing) | 22.22 g |
| Weight per piece (excluding packing) | 22.22 g |
| Country of origin | CN |

## Technical data

### Product properties

| | |
|---|---|
| Product type | AC charging cable |
| Product family | CHARX connect |
| Application | for charging electric vehicles (EV) with alternating current (AC) via GB/T vehicle charging inlets |
| | for installation at charging stations for electromobility (EVSE) |
| Design | without protective cap |
| Charging standard | GB/T |
| Charging mode | Mode 3, Case C |
| Affixed logo | PHOENIX CONTACT logo |
| Customer variations | On request |
| Label | 14.1 mm x 44.8 mm (customer logo on request) |

### Electrical properties

| | |
|---|---|
| Type of signal transmission | Pulse width modulation |
| Note on the connection method | Crimp connection, cannot be disconnected |
| Coding | 680 Ω (between PE and CC) |

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

| | |
|---|---|
| Type of charging current | AC single-phase |
| Charging current | 16 A AC (1-phase) |
| Charging power | 4 kW (1-phase) |
| Rated voltage | 250 V |

Pin assignment (Leistungskontakte)

| | |
|---|---|
| Number | 3 (L, N, PE) |
| Rated voltage | 250 V |
| Rated current | 16 A |

Pin assignment (Signalkontakte)

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

### Dimensions

Vehicle charging connector

| | |
|---|---|
| Width | 58 mm |
| Height | 151.3 mm |
| Depth | 238.7 mm |

### Material specifications

| | |
|---|---|
| Color (Housing) | black (9005) |
| Color (Handle area) | black (9005) |

| | |
|---|---|
| Color (Actuating element) | silver grey (7001) |
| Color (Mating face) | black (9005) |
| Color (Protective cap) | black (9005) |
| Color (Cable) | black (9005) |
| Material (Vehicle charging connector) | Plastic |
| Material (Cable outer sheath) | TPE-U |
| Material (Contact surface) | Silver |

## Cable/line

| | |
|---|---|
| Cable length | 7 m |
| Cable weight | max. 163.00 kg/km |
| Cable type | Class 6 |
| Cable type | straight |
| Cable structure | 3 x 2.5 mm² + 1 x 0.5 mm² |
| External cable diameter | 10.50 mm ±0.4 mm |
| Outer sheath, material | TPE |
| Stripping length of the sheath | 45 mm ±10 mm |
| Stripping length | 45 mm ±10 mm |
| Cable resistance | ≤ 0.0076 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius | min. 157.5 mm (15x diameter) |
| Cable length | 7 m |
| Stripping length | 45 mm ±10 mm |
| External cable diameter | 10.50 mm ±0.4 mm |
| Cable type | Class 6 |
| Cable resistance | ≤ 0.0076 Ω/m (based on a power core, at an ambient temperature of 20°C) |

## 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) | IP55 (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) |
| Ambient temperature (operation) | -30 °C ... 50 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude | 5000 m (above sea level) |

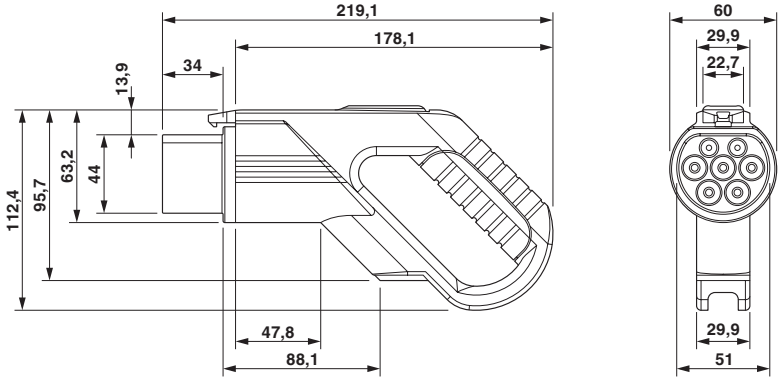
## Standards and regulations

Standards

| | |
|---|---|
| Standards/regulations | GB/T 20234.2 |

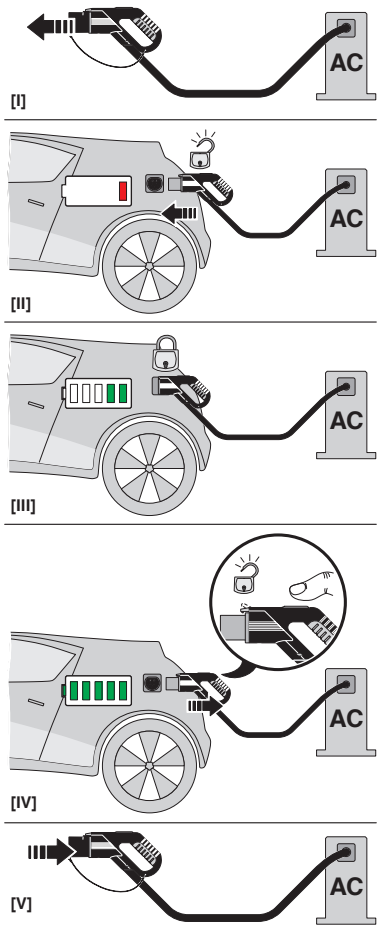
## Drawings

Dimensional drawing



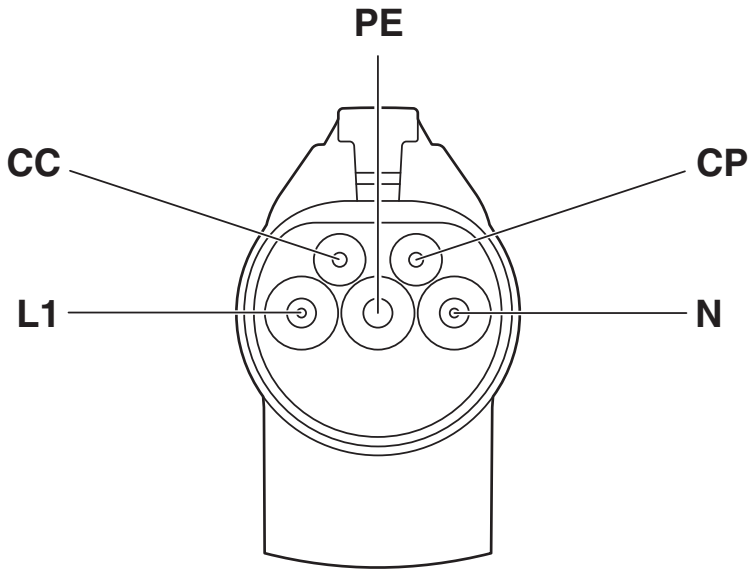

Make sure that the vehicle charging connector is placed in an appropriate charging connector holder, which ensures a minimum protection rating of IP24 in accordance with IEC 61851-1, for the entire time between charging. To create this charging connector holder, use the dimensions of the vehicle charging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

Schematic diagram



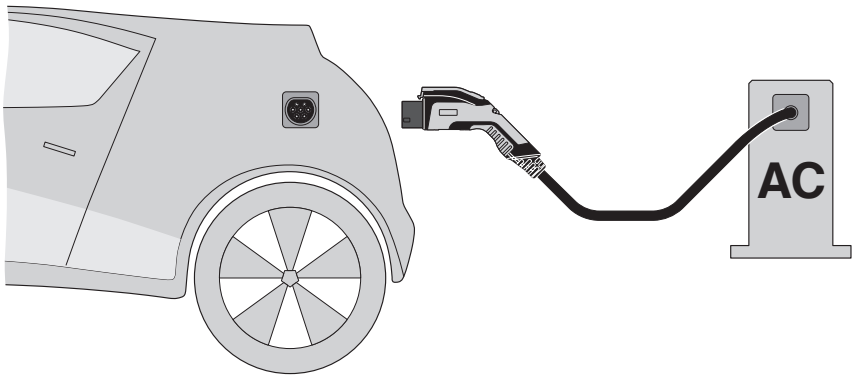

Operating instructions

Schematic diagram




Pin assignment of the Vehicle Connector

Schematic diagram




Terminology definition

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-15.0 | 27144705 |
| ECLASS-13.0 | 27144705 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC002897 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121500 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

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.) | Lead(CAS: n/a) |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