

# EV-GBM3C-1AC32A-10M6,0ESOG00U - AC charging cable



1624345

<https://www.phoenixcontact.com/us/products/1624345>

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CHARX connect, GB/T, AC charging cable, 32 A permanent, 440 V AC, with vehicle charging connector and open cable end, cable: 10 m, orange, straight, without protective cap, housing: black, gray, PHOENIX CONTACT logo, NOTE: Signal transmission is dependent on the cable length and may be adversely affected., 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                          | 1624345       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | XWBAAF        |
| GTIN                                 | 4055626267746 |
| Weight per piece (including packing) | 2,550 g       |
| Weight per piece (excluding packing) | 2,500 g       |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                   |   |
|-------------------|---|
| Product type      | AC charging cable   |
| Product family    | CHARX connect   |
| Type              | AC charging cable<br>with vehicle charging connector and open cable end |
| Design            | without protective cap  |
| Charging standard | GB/T  |
| Charging mode     | Mode 3, Case C  |
| Affixed logo      | PHOENIX CONTACT logo  |

### Electrical properties

|                               |  |
|-------------------------------|--|
| 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         | 32 A AC (1-phase) |
| Charging power           | 8 kW (1-phase)    |
| Rated voltage            | 250 V             |

### Pin assignment (Power contacts)

|               |              |
|---------------|--------------|
| Number        | 3 (L, N, PE) |
| Rated voltage | 440 V        |
| Rated current | 32 A         |

### Pin assignment (Signal contacts)

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

### Material specifications

|                                       |               |
|---------------------------------------|---------------|
| Color (Housing)                       | black (9005)  |
| Color (Handle area)                   | gray (7042)   |
| Color (Mating face)                   | black (9005)  |
| Color (Protective cap)                | black (9005)  |
| Color (Cable)                         | orange (2003) |
| Material (Vehicle charging connector) | Plastic       |
| Material (Cable outer sheath)         | TPE-U         |
| Material (Contact surface)            | Silver        |

### Cable/line

|              |         |
|--------------|---------|
| Cable length | 10 m    |
| Cable type   | Class 6 |

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|                                |   |
|--------------------------------|---|
| Cable type                     | straight  |
| Cable structure                | 3 x 6.0 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>                       |
| External cable diameter        | 13.90 mm ±0.3 mm  |
| Outer sheath, material         | TPE   |
| Stripping length of the sheath | 45 mm ±10 mm  |
| Stripping length               | 45 mm ±10 mm  |
| Cable resistance               | ≤ 0.0033 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius                 | min. 208.5 mm (15x diameter)  |
| Cable length                   | 10 m  |
| Stripping length               | 45 mm ±10 mm  |
| External cable diameter        | 13.90 mm ±0.3 mm  |
| Cable type                     | Class 6   |
| Cable resistance               | ≤ 0.0033 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 inlet)       | 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) |
| Degree of protection (Infrastructure charging plug) | 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) |
| Degree of protection (Protective cap)               | IP54   |
| Ambient temperature (operation)                     | -30 °C ... 50 °C   |
| Ambient temperature (storage/transport)             | -40 °C ... 80 °C   |
| Altitude  | 5000 m (above sea level)   |

## Standards and regulations

### Connection in accordance with standard

|                                     |  |
|-------------------------------------|--|
| Normative cable length restrictions | NOTE: Signal transmission is dependent on the cable length and may be adversely affected.  |
|                                     | 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). |
|                                     | 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).              |

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Cable management is required in the US if the cable length exceeds 7.5 m (IEC 61851-1).

## Standards

Standards/regulations

GB/T 20234.2

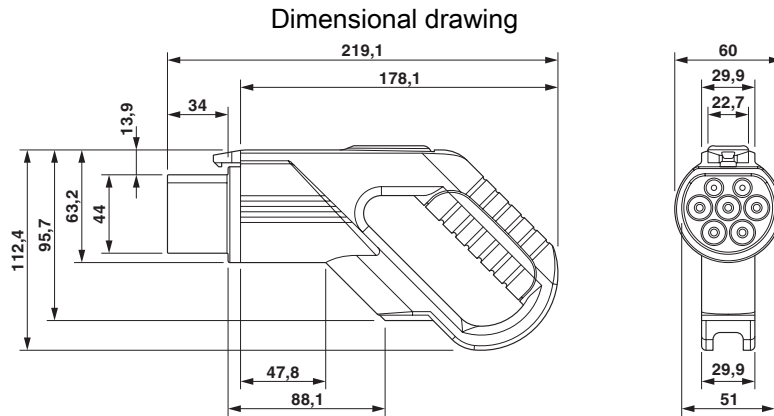
# EV-GBM3C-1AC32A-10M6,0ESOG00U - AC charging cable



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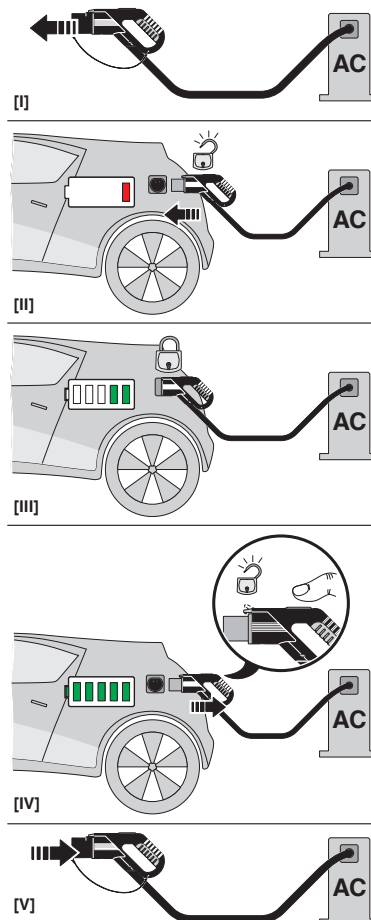
<https://www.phoenixcontact.com/us/products/1624345>

## Drawings



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



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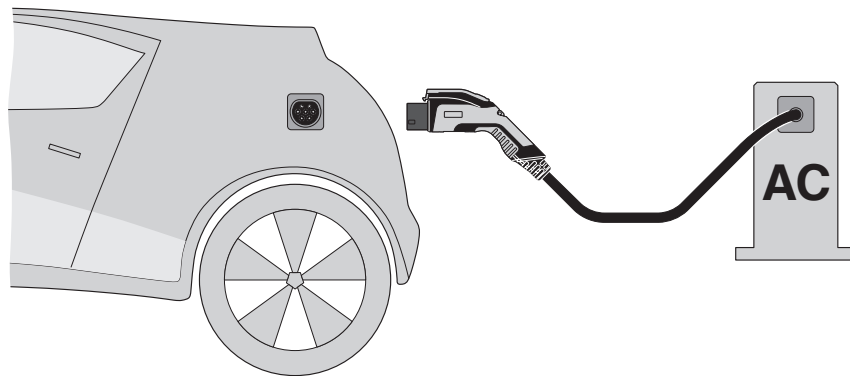
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Schematic diagram



Pin assignment of the Vehicle Connector

Schematic diagram



Terminology definition

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## 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: 7439-92-1) |
|-------------------------------------|----------------------|

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