

# EV-T1G2C-1AC40A-5,0M10ASBK01 - AC charging cable



1488686

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CHARX connect comfort, Type 1, AC charging cable, 40 A permanent, 250 V AC, with vehicle charging connector and open cable end, cable: 5 m, black, straight, with protective cap, PHOENIX CONTACT logo, SAE J1772, for charging electric vehicles (EV) with alternating current (AC) via type 1 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 type 1 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                          | 1488686       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | EM01          |
| Product key                          | XWBMAA        |
| GTIN                                 | 4063151935559 |
| Weight per piece (including packing) | 2,508 g       |
| Weight per piece (excluding packing) | 2,508 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   |
| Type                | AC charging cable<br>with vehicle charging connector and open cable end |
| Design              | with protective cap   |
| Charging standard   | Type 1  |
| Charging mode       | AC level 2  |
| Affixed logo        | PHOENIX CONTACT logo  |
| Customer variations | On request  |

### Electrical properties

|                               |  |
|-------------------------------|--|
| Type of signal transmission   | Pulse width modulation   |
| Note on the connection method | Crimp connection, cannot be disconnected                           |
| Coding                        | 480 $\Omega$ (Lever actuated)<br>150 $\Omega$ (Lever not actuated) |

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

|                          |                   |
|--------------------------|-------------------|
| Type of charging current | AC single-phase   |
| Charging current         | 40 A AC (1-phase) |
| Charging power           | 10 kW (1-phase)   |
| Rated voltage            | 250 V             |

### Pin assignment (Power contacts)

|               |               |
|---------------|---------------|
| Number        | 3 (L1, N, PE) |
| Rated voltage | 250 V AC      |
| Rated current | 40 A          |

### Pin assignment (Signal contacts)

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

## Dimensions

### Vehicle charging connector

|        |          |
|--------|----------|
| Width  | 58 mm    |
| Height | 151.1 mm |
| Depth  | 236.1 mm |

## Material specifications

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

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|                                       |                    |
|---------------------------------------|--------------------|
| Color (Actuating element)             | silver gray (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                   | 5 m  |
| Wiring standards/regulations   | UL 62<br>FFSO7.E343212   |
| Cable weight                   | max. 385.00 kg/km  |
| Cable type                     | straight   |
| Cable structure                | 3 x 10 AWG + 1 x 18 AWG  |
| External cable diameter        | 17.00 mm ±0.4 mm   |
| Outer sheath, material         | TPE  |
| Stripping length of the sheath | 70 mm ±5 mm  |
| Stripping length               | 70 mm ±5 mm  |
| Cable resistance               | ≤ 0.00351 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius                 | min. 255 mm (15x diameter)   |

## Mechanical properties

### Mechanical data

|                             |         |
|-----------------------------|---------|
| Insertion/withdrawal cycles | > 10000 |
| Insertion force             | < 75 N  |
| Withdrawal force            | < 75 N  |

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection (Vehicle charging inlet) | 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) |
| 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

### Standards

|                       |           |
|-----------------------|-----------|
| Standards/regulations | SAE J1772 |
|-----------------------|-----------|

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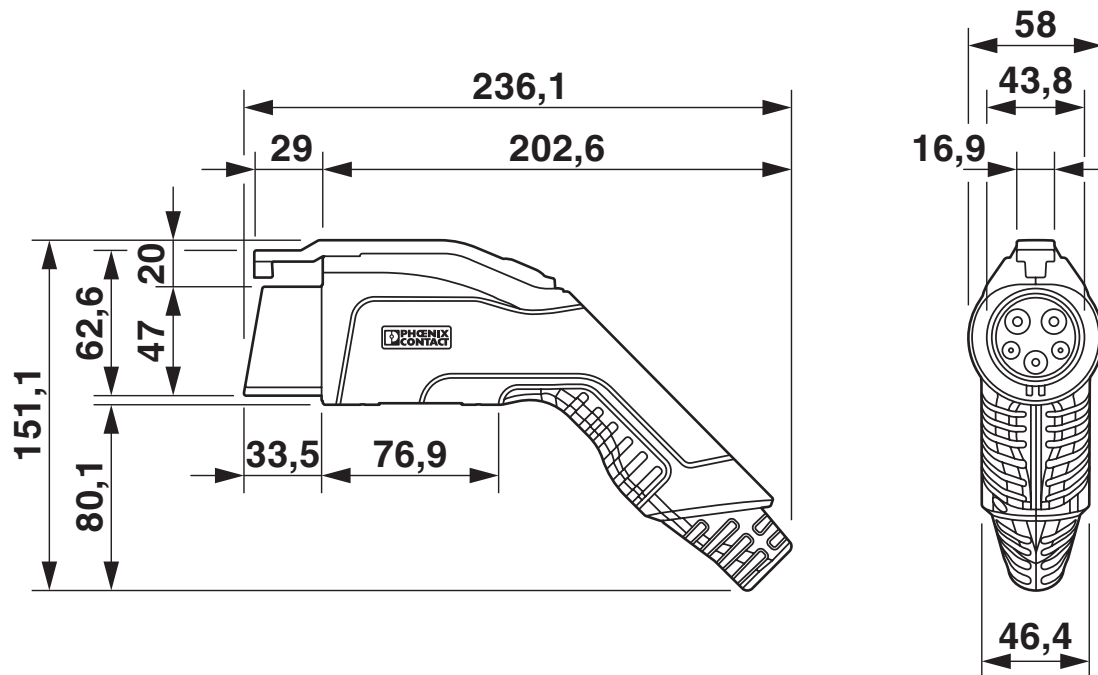


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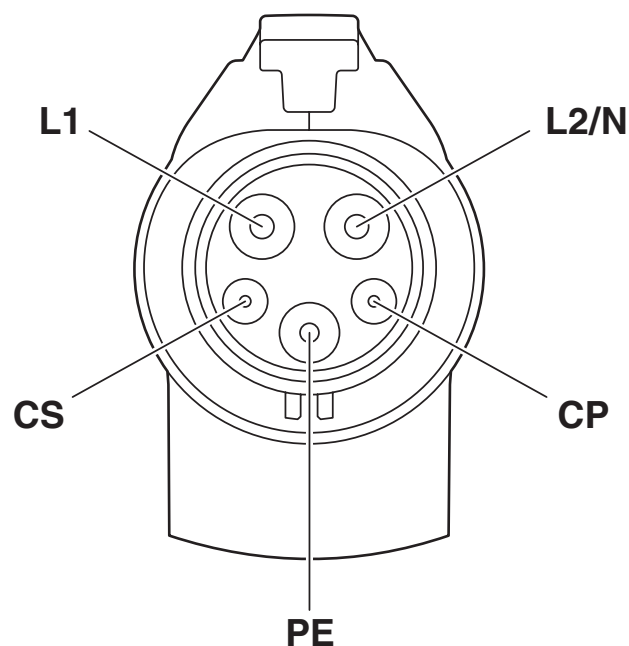
## Drawings

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.

Connection diagram



Pin assignment of the Vehicle Connector

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## Schematic diagram



## Operating instructions

### Schematic diagram



## Terminology definition

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## Classifications

### ECLASS

ECLASS-13.0

27144705

### ETIM

ETIM 9.0

EC002897

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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)                 |
| SCIP                                | e298e798-c12a-4ab2-b695-928af80a47cd |

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