

# EV-TAG3PC-1AC32A-4,0M6,0EHBK01 - AC charging cable



1628026

<https://www.phoenixcontact.com/us/products/1628026>

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CHARX connect comfort, Type 1, Type 2, Mobile AC charging cable, 32 A permanent, 250 V AC, with vehicle charging connector and infrastructure charging plug, cable: 4 m, black, spiraled, with protective cap, housing: black, gray, PHOENIX CONTACT logo, IEC 62196-2, SAE J1772, for charging electric vehicles (EV) with alternating current (AC) via type 1 vehicle charging inlets

## Product description

Mobile AC charging cable with vehicle charging connector and infrastructure charging plug for charging electric vehicles (EV) with alternating current (AC) via type 1 vehicle charging inlets, compatible with type 2 infrastructure charging sockets 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                          | 1628026       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | EM01          |
| Product key                          | XWBEAB        |
| GTIN                                 | 4055626377384 |
| Weight per piece (including packing) | 3,035 g       |
| Weight per piece (excluding packing) | 2,881.71 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                | Mobile AC charging cable<br>with vehicle charging connector and infrastructure charging plug |
| Design              | with protective cap  |
| Charging standard   | Type 1<br>Type 2   |
| Charging mode       | Mode 3, Case B   |
| Affixed logo        | PHOENIX CONTACT logo   |
| Customer variations | On request   |

### Electrical properties

#### 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)    |
| Operating voltage        | typ. 240 V        |

#### Pin assignment (Power contacts)

|                               |  |
|-------------------------------|--|
| Note on the connection method | Crimp connection, cannot be disconnected |
| Number                        | 3 (L1, N, PE)                            |
| Rated voltage                 | 250 V AC                                 |
| Rated current                 | 32 A                                     |

#### Pin assignment (Signal contacts)

|                               |  |
|-------------------------------|--|
| Note on the connection method | Crimp connection, cannot be disconnected                           |
| Type of signal transmission   | Pulse width modulation   |
| Number                        | 2 (CP, CS)   |
| Rated voltage                 | 30 V AC  |
| Rated current                 | 2 A  |
| Coding                        | 480 $\Omega$ (Lever actuated)<br>150 $\Omega$ (Lever not actuated) |

### Dimensions

#### Vehicle charging connector

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

### Material specifications

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|                                       |  |
|---------------------------------------|--|
| Color (Housing)                       | black (9005)   |
| Color (Handle area)                   | black (9005)   |
| 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   |
| Note                                  | The color appearance and gloss level of the charging cable may vary. |

## 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      | 12.80 mm ±0.4 mm  |
| Outer sheath, material       | TPE-U   |
| 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             | < 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 (Infrastructure charging plug) | 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   |

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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 |
|                       | SAE J1772   |

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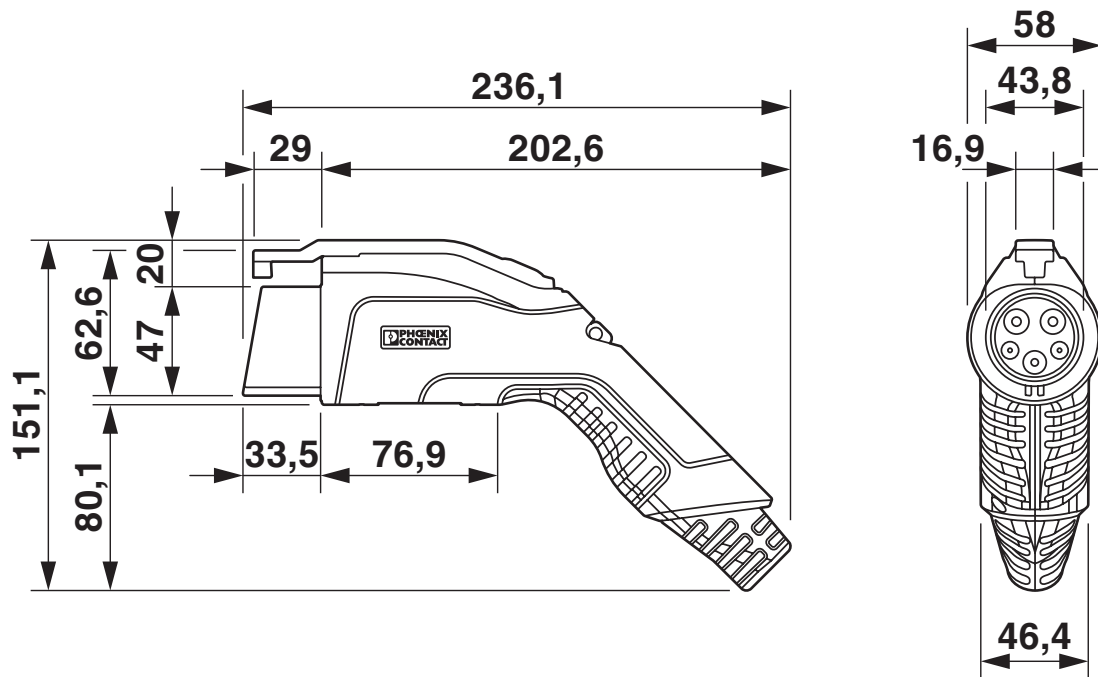


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## Drawings

Dimensional drawing



## Vehicle connector

Dimensional drawing



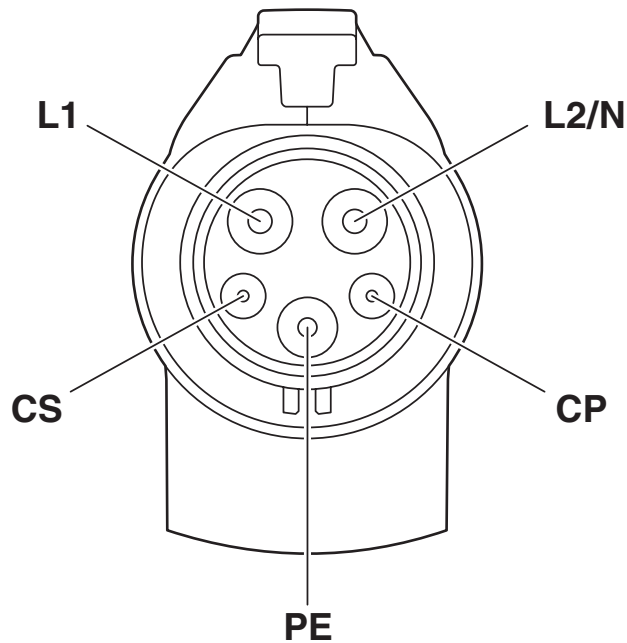
## Infrastructure plug

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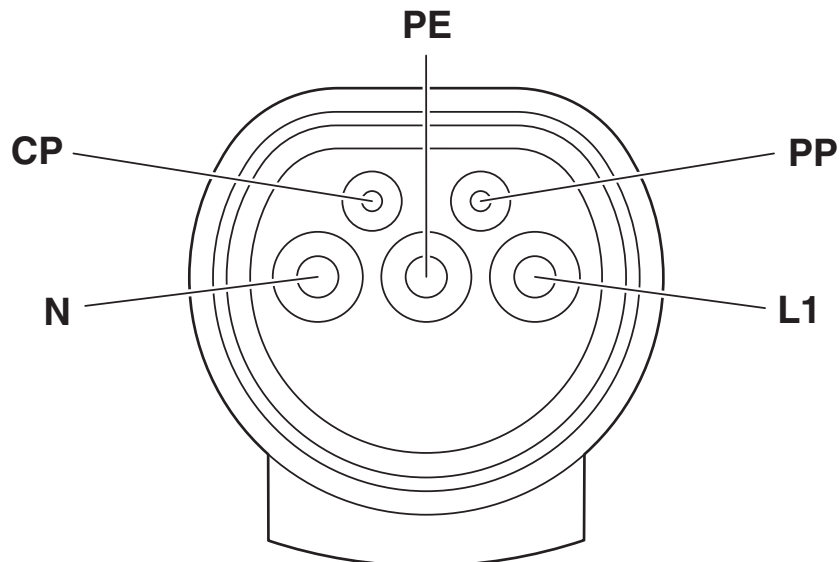
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Connection diagram



Pin assignment of the Vehicle Connector

Schematic diagram



Type 2 infrastructure plug pin assignment

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## Schematic diagram



## Operating instructions

### Schematic diagram



## Terminology definition

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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-50   |
|  | 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                                | f670cc57-ba69-4c1e-b142-3190fc712704 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 44.13 kg CO2e |
|---------|---------------|

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