

# EV-T1G3K-1AC32A-4,0M6,0ESBK01 - AC charging cable



1623224

<https://www.phoenixcontact.com/us/products/1623224>

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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 1 vehicle charging inlets, with protective cap, with locking option for padlock, Type 1, IEC 62196-2, SAE J1772, 32 A / 250 V (AC), housing: black, gray, PHOENIX CONTACT logo, cable: 4 m, black, straight

## 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                          | 1623224       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | EM01          |
| Product key                          | XWBAAA        |
| GTIN                                 | 4055626177762 |
| Weight per piece (including packing) | 1.721 kg      |
| Weight per piece (excluding packing) | 1.721 kg      |
| 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 1 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<br>with locking option for padlock                                                                                                                   |
| Affixed logo      | PHOENIX CONTACT logo                                                                                                                                                     |
| Charging mode     | Mode 3, Case C                                                                                                                                                           |
| Charging standard | Type 1                                                                                                                                                                   |

### 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) |
| 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, 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 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                   | 4 m                                                                     |
| Wiring standards/regulations   | prEN 50620/DIN EN 50620                                                 |
| Wiring certifications          | VDE                                                                     |
| Cable weight                   | max. 305.00 kg/km                                                       |
| Cable type                     | Class 5                                                                 |
| Cable type                     | straight                                                                |
| 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                                                                   |
| Stripping length of the sheath | 70 mm ±5 mm                                                             |
| Stripping length               | 70 mm ±5 mm                                                             |
| Cable resistance               | ≤ 0.0033 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius                 | min. 96 mm (7.5x 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 | IEC 62196-2 |
|-----------------------|-------------|

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|  |           |
|--|-----------|
|  | SAE J1772 |
|--|-----------|

# EV-T1G3K-1AC32A-4,0M6,0ESBK01 - AC charging cable

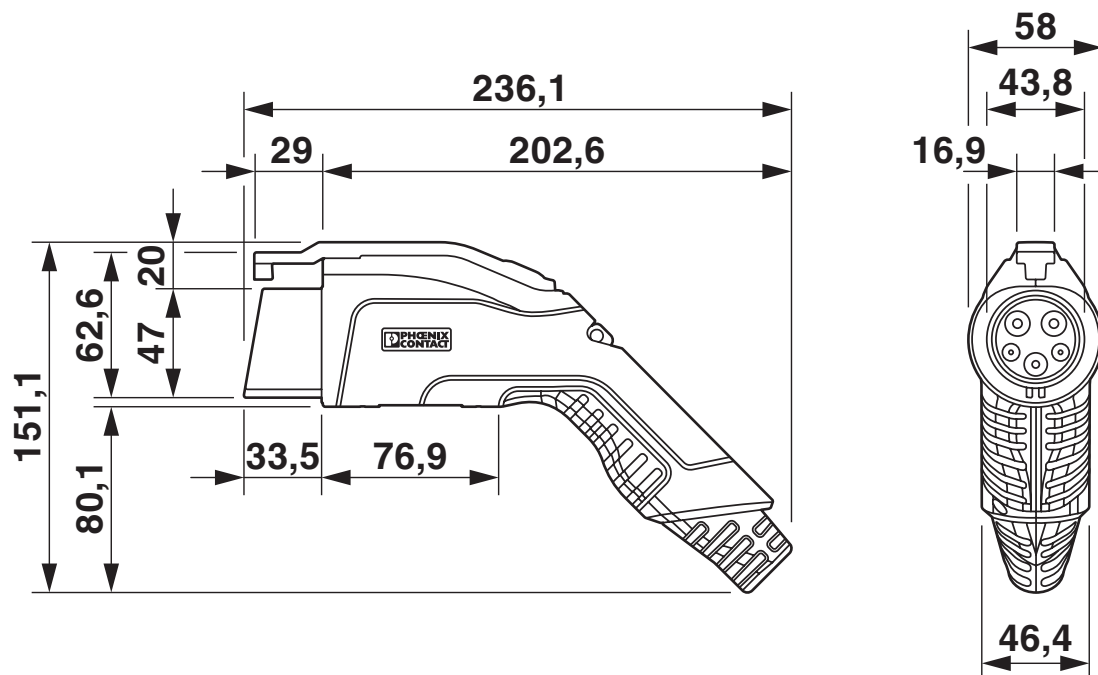


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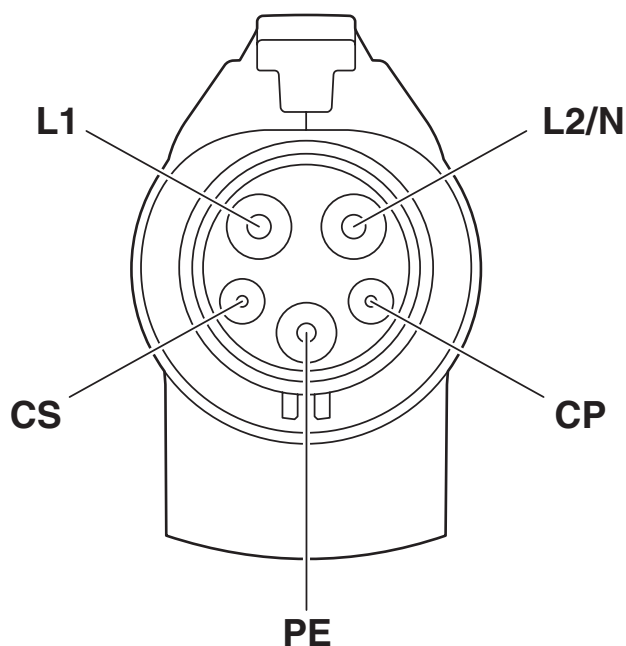
## Drawings

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



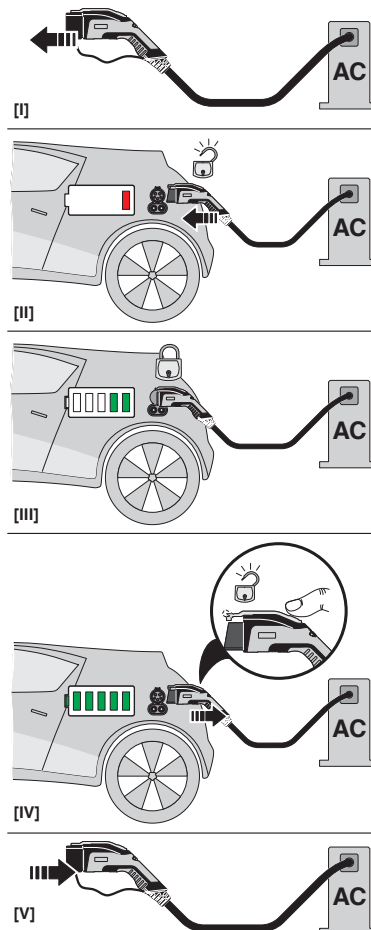
Pin assignment of the Vehicle Connector

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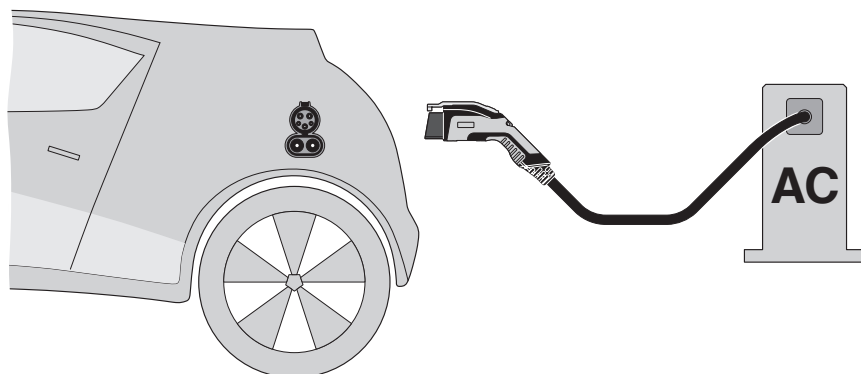
<https://www.phoenixcontact.com/us/products/1623224>

## Schematic diagram



## Operating instructions

### Schematic diagram



## Terminology definition

# EV-T1G3K-1AC32A-4,0M6,0ESBK01 - AC charging cable



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1623224>

|                                                                                   |                        |                                |                                |                   |
|-----------------------------------------------------------------------------------|------------------------|--------------------------------|--------------------------------|-------------------|
|  | <b>IECEE CB Scheme</b> |                                |                                |                   |
|                                                                                   | Approval ID: DE1-60844 |                                |                                |                   |
|                                                                                   |                        | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG |
|                                                                                   |                        | 250 V                          | 32 A                           | -                 |

|                                                                                   |                               |                                |                                |                   |
|-----------------------------------------------------------------------------------|-------------------------------|--------------------------------|--------------------------------|-------------------|
|  | <b>VDE Zeichengenehmigung</b> |                                |                                |                   |
|                                                                                   | Approval ID: 40045364         |                                |                                |                   |
|                                                                                   |                               | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG |
|                                                                                   |                               | 250 V                          | 32 A                           | -                 |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27144705 |
| ECLASS-12.0 | 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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## Accessories

### EV-T1AC-PARK - Charging connector holder

1624139

<https://www.phoenixcontact.com/us/products/1624139>



CHARX connect, Charging connector holder, Accessories, for vehicle charging connectors on charging stations (EVSE), Type 1, SAE J1772, Front mounting, housing: black

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### EV-LABEL-B - Label

1309758

<https://www.phoenixcontact.com/us/products/1309758>



CHARX connect, Label, Accessories, for AC type 1 vehicle charging connector with metric cable and for AC type 1 vehicle charging inlet, DIN EN 17186

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

1424481

<https://www.phoenixcontact.com/us/products/1424481>



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

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